May 28, 2019

FILED

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PUBLIC UTILITIES

COMMISSION

The Honorable Chair and Members of the Hawai'i Public Utilities Commission Kekuanaoa Building, 1st Floor 465 South King Street Honolulu, Hawai'i 96813

Dear Commissioners:

Subject:

Transmittal Nos. 19-01, 19-02, 19-03 Consolidated (Decoupling)

2019 RBA Rate Adjustment Tariff Filings

Parties Stipulated Revision to Reply Statement of Position

By this letter, the Hawaiian Electric Companies¹ and the Division of Consumer Advocacy of the Department of Commerce and Consumer Affairs ("Consumer Advocate") (individually referred to as "Party" and collectively referred to as the "Parties") hereby notify the Commission that they have reached a stipulated settlement of matters in this proceeding ("Stipulated Settlement").

On May 21, 2019, the Hawaiian Electric Companies filed their reply to the *Division of Consumer Advocacy's Statement of Position* ("RSOP"), on Transmittal Nos. 19-01, 19-02 and 19-03, the Companies' Revenue Balancing Account ("RBA") Rate Adjustment tariff filings for 2019. This Stipulated Settlement resolves all issues in this proceeding as between the Parties², except whether the Measured Performance for the System Average Interruption Duration Index ("SAIDI") and the System Average Interruption Frequency Index ("SAIFI") Performance Incentive Mechanisms ("PIM") for 2018 should exclude planned maintenance outages for a 25 kV splice replacement project that occurred in Honolulu in July 2018, as Hawaiian Electric proposed in Transmittal Nos. 18-05 and 19-01. In addition, the outcome of Docket No. 2016-0342 for the West Loch PV project will determine whether the project will receive recovery through the Major Project Interim Recovery ("MPIR") mechanism³ or be included as

¹ The "Hawaiian Electric Companies" or "Companies" are Hawaiian Electric Company, Inc. ("Hawaiian Electric"), Hawai'i Electric Light Company, Inc. ("Hawai'i Electric Light"), and Maui Electric Company, Limited ("Maui Electric").

² The agreements in the Stipulated Settlement are for the purpose of simplifying and expediting resolution of this proceeding, represent a negotiated compromise, and do not constitute an admission by either Party with respect to any of the matters agreed upon. The Parties expressly reserve their right to take positions in other dockets different than as stipulated herein.

³ If the Commission approves MPIR recovery for the West Loch PV project, the RBA Rate Adjustment for 2019 will exclude recovery of MPIR revenues since the project's scheduled in-service date is September 2019. In

a major project plant addition in the calculation of the Rate Adjustment Mechanism ("RAM") Revenue Adjustment.

Subsequent to the Companies filing their RSOP and as a result of informal discussions between the Parties, the Hawaiian Electric Companies agree to the Consumer Advocate's recommendation to remove the adjustments ("ADIT – Joint Pole Capital Transfer Price") in revised Schedule D1 of \$243,215 for Hawaiian Electric (line 33), \$169,224 for Hawaii'i Electric Light (line 30) and \$43,535 for Maui Electric (line 31). These amounts were a subtraction in the calculation of ADIT for plant additions in the 2019 RAM period and were part of the Companies' effort to exclude items associated with the joint pole transfer from the 2019 RAM rate base. The removal of these adjustments to the incremental ADIT in 2019 was appropriate because the transfer of the joint poles was recorded in 2018 and the change in the 2019 RAM ADIT reserve calculation is not impacted by this addition. As a result of this removal, rate base decreased and the changes flowed through to Schedules A, A1, B, B1 and D in addition to D1 in each Company's Attachment 2 decoupling template.

The table below provides the revised RBA Rate Adjustment for each Company:

Hawaiian Electric 2019 RBA Rate Adjustment

| Attachment | West Loch in | 25kV Excluded | RBA Rate | RBA Rate |
|-------------|--------------|------------------|------------|------------|
| 2 (Scenario | RAM Revenue | from SAIDI/SAIFI | Adjustment | Adjustment |
| #) | Adjustment | PIM | RSOP | Revised |
| Att 2 (1) | Yes | Yes | 0.9980¢ | 0.9978¢ |
| Att 2A (2) | No | Yes | 0.9582¢ | 0.9580¢ |
| Att 2B (3) | Yes | No | 0.9776¢ | 0.9775¢ |
| Att 2C (4) | No | No | 0.9378¢ | 0.9376¢ |

| Company | RBA Rate Adjustment | RBA Rate Adjustment |
|------------------------|---------------------|---------------------|
| | RSOP | Revised |
| Hawai'i Electric Light | 0.9077¢ | 0.9069¢ |
| Maui Electric | 0.8718¢ | 0.8716¢ |

accordance with the MPIR Guidelines in Order No. 34514 in Docket No. 2013-0141, the MPIR revenues will flow through the RBA and will be included in the calculation of the 2020 RBA Rate Adjustment. If the Commission rejects MPIR recovery, the West Loch project will be included as a major project plant addition in the calculation of the 2019 RAM Revenue Adjustment.

⁴Regarding the proposed RAM joint pole adjustment, as discussed in the May 17, 2019 meeting, the Companies proposed in their RSOP an adjustment to remove the joint pole assets, related depreciation, ADIT, unbilled pole credits, and Hawaiian Telcom existing pole revenues from the calculation of the 2019 RAM Revenue Adjustment. *Hawaiian Electric Companies Reply Statement of Position* filed on May 21, 2019, page 3.

The only changes to the tariffs filed with the Companies' RSOP on May 21, 2019 are to revise the RBA Rate Adjustment, the target revenues currently in effect, and the annual decoupling filing entries for the effective target revenue and change in target revenue in the historical reference table, as shown below:

TARIFF SHEETS REVISED RESULTING FROM JOINT POLE ADIT REMOVAL

| Company | RBA Rate | Annual Target Revenue | Target Revenues |
|------------------------|------------|-----------------------|----------------------|
| | Adjustment | Currently in Effect | Historical Reference |
| Hawaiian Electric | 92D | 92E | 92F |
| Hawai'i Electric Light | 91D | 91E | 91F |
| Maui Electric | | | |
| Maui | 97E | 97F | 97G |
| Lanaʻi | 108E | 108F | 108G |
| Molokai | 152E | 152F | 152G |

The Companies are also submitting in this filing the other proposed tariff sheets attached to the Companies' RSOP to provide a complete set of proposed tariff sheets for Transmittal Nos. 19-01, 19-02 and 19-03 Consolidated.

The Hawaiian Electric Companies request the Commission to approve by May 29, 2019 the tariff changes proposed in this Stipulated Settlement to go into effect on June 1, 2019. The Companies need this lead time to perform certain internal control procedures to allow completion and verification of the rate changes.

The Companies have incorporated the applicable adjustment in their revised decoupling templates.⁵ As a result of this adjustment:

• Hawaiian Electric's proposed RBA Revenue Adjustment for Attachment 2⁶ decreased from \$69,808,410 to \$64,758,869 and its 2019 RBA Rate Adjustment decreased by 0.0778¢, from 1.0756¢ (in the original Transmittal No. 19-01 filing dated March 29,

1. Attachment 2- Decoupling template includes recovery of West Loch PV as a Major Project and exclusion of 25kV outages in the SAIDI and SAIFI PIM adjustment.

⁵ Tabs containing revisions have been highlighted along with the individually revised cells within each tab.

⁶ The revised RBA Rate shown reflects the first scenario listed below.

^{2.} Attachment 2A- Decoupling template excludes recovery of West Loch PV and 25kV outages in the SAIDI and SAIFI PIM adjustment.

^{3.} Attachment 2B- Decoupling template includes recovery of West Loch PV as a Major Project and 25kV outages in the SAIDI and SAIFI PIM adjustment.

^{4.} Attachment 2C- Decoupling template excludes recovery of West Loch PV but includes 25kV outages in the SAIDI and SAIFI PIM adjustment.

- 2019) to 0.9978¢ per kWh. The overall incremental impact of the RBA Rate Adjustment proposed in this filing compared to the current RBA Rate Adjustment on a typical customer's monthly bill is a decrease of (\$0.19) for Hawaiian Electric's customers (based on an average usage of 500 kWh).
- Hawai'i Electric Light's proposed RBA Revenue Adjustment decreased from \$12,130,866 to \$9,638,354 and its 2019 RBA Rate Adjustment decreased by 0.2345¢, from 1.1414¢ (in the original Transmittal No. 19-02 filing dated March 29, 2019) to 0.9069¢ per kWh. The overall incremental impact of the RBA Rate Adjustment proposed in this filing compared to the current RBA Rate Adjustment on a typical customer's monthly bill is a decrease of (\$0.47) for Hawai'i Electric Light's customers (based on an average usage of 500 kWh).
- Maui Electric's proposed RBA Revenue Adjustment decreased from \$9,822,924 to \$9,160,885 and its 2019 RBA Rate Adjustment decreased by 0.0630¢, from 0.9346¢ (in the original Transmittal No. 19-03 filing dated March 29, 2019) to 0.8716¢ per kWh. The overall incremental impact of the RBA Rate Adjustment proposed in this filing compared to the current RBA Rate Adjustment on a typical customer's monthly bill is an increase of \$2.77 for Maui Electric's customers (based on an average usage of 500 kWh) and \$2.22 (based on an average usage of 400 kWh).

EXHIBIT AND ATTACHMENTS

This filing includes the following attachments:

- 1. Revised tariff sheet (in clean and blacklined versions) with Hawaiian Electric's revised proposed RBA Rate Adjustment, and the supporting revised Attachment 2
- 2. Revised tariff sheet (in clean and blacklined versions) with Hawai'i Electric Light's revised proposed RBA Rate Adjustment, and the supporting revised Attachment 2
- 3. Revised tariff sheet (in clean and blacklined versions) with Maui Electric's revised proposed RBA Rate Adjustment, and the supporting revised Attachment 2⁷

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⁷ On May 16, 2019, in Order No. 36323 in Docket No. 2017-0150 (Maui Electric's 2018 test year rate case), the Commission approved, among other things, Maui Electric's proposed Performance Incentive Mechanism Tariff revisions. Included in these revisions were the requested changes that Maui Electric proposed in its Transmittal No. 19-03 filing on March 29, 2019, on Tariff Sheet Nos. 101E, 112D.1, and 156D.1. Because the Performance Incentive Mechanism Tariff revisions were approved in Docket No. 2017-0150, Maui Electric is not including its Performance Incentive Mechanism Tariffs in this filing.

DATED: Honolulu, Hawai'i, May 28, 2019.

JOSEPH P. VIOLA

Vice President Hawaiian Electric Company, Inc. Maui Electric Company, Limited Hawai'i Electric Light, Inc.

Enclosures

Attachments

cc: Division of Consumer Advocacy

DEAN NISHINA

Executive Director

Division of Consumer Advocacy

Department of Commerce and Consumer Affairs

HAWAIIAN ELECTRIC SCENARIO 1 WEST LOCH PV PROJECT IN RAM REVENUE ADJUSTMENT 25kV EXCLUDED FROM 2018 SAIDI AND SAIFI PIM CALCULATIONS

HAWAIIAN ELECTRIC ATTACHMENT 1

RATE SCHEDULES (continued)

| Sheet | Schedule | Date Effective | Character of Service |
|-------|----------|-------------------|--|
| 92 | "RBA" | September 1, 2018 | Revenue Balancing Account Provision |
| 92A | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 92A.1 | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 92B | "RBA" | February 16, 2018 | Revenue Balancing Account Provision |
| 92C | "RBA" | January 1, 2018 | Revenue Balancing Account Provision |
| 92D | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 92E | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 92F | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 93 | "RAM" | June 1, 2013 | Rate Adjustment Mechanism Provision |
| 93A | "RAM" | June 1, 2013 | Rate Adjustment Mechanism Provision |
| 93B | "RAM" | June 8, 2015 | Rate Adjustment Mechanism Provision |
| 93C | "RAM" | June 8, 2015 | Rate Adjustment Mechanism Provision |
| 93D | "RAM" | June 1, 2017 | Rate Adjustment Mechanism Provision |
| 93E | "RAM" | June 8, 2015 | Rate Adjustment Mechanism Provision |
| 93F | "RAM" | June 1, 2013 | Rate Adjustment Mechanism Provision |
| 93G | "RAM" | June 1, 2018 | Rate Adjustment Mechanism Provision |
| 93Н | "RAM" | June 1, 2018 | Rate Adjustment Mechanism Provision |
| 931 | "RAM" | June 1, 2018 | Rate Adjustment Mechanism Provision |
| 94 | "PPAC" | May 1, 2019 | Purchased Power Adjustment Clause |
| 94A | "PPAC" | May 1, 2019 | Purchased Power Adjustment Clause |
| 94B | "PPAC" | May 1, 2019 | Purchased Power Adjustment Clause |

HAWAIIAN ELECTRIC COMPANY, INC.

RATE SCHEDULES (continued)

| Sheet | Schedule | Date Effective | Character of Service |
|-------|----------|-------------------|--|
| 95 | EV-F | January 1, 2019 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 95A | EV-F | January 1, 2019 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 95B | EV-F | December 12, 2017 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 96 | EV-U | December 12, 2017 | Commercial Public Electric Vehicle Charging Service Pilot |
| 96A | EV-U | December 12, 2017 | Commercial Public Electric Vehicle Charging Service Pilot |
| 97 | TOU-RI | October 18, 2018 | Residential Interim Time- of-Use Service |
| 97A | TOU-RI | January 1, 2019 | Residential Interim Time- of-Use Service |
| 97B | TOU-RI | October 18, 2018 | Residential Interim Time- of-Use Service |
| 97C | TOU-RI | January 1, 2019 | Residential Interim Time- of-Use Service |
| 98 | "PIM" | January 1, 2018 | Performance Incentive Mechanism Provision |
| 98A | "PIM" | January 1, 2018 | Performance Incentive Mechanism Provision |
| 98B | "PIM" | September 1, 2018 | Performance Incentive Mechanism Provision |
| 98C | "PIM" | September 1, 2018 | Performance Incentive Mechanism Provision |
| 98D | "PIM" | June 1, 2019 | Performance Incentive Mechanism Provision |
| 98E | "PIM" | September 1, 2018 | Performance Incentive Mechanism Provision |
| 99 | TOU-P | January 1, 2019 | Large Commercial Time-Of- Use Service |
| 99A | TOU-P | January 1, 2019 | Large Commercial Time-Of- |
| 99B | TOU-P | January 1, 2019 | Use Service Large Commercial Time-Of- |
| 99C | TOU-P | January 1, 2019 | Use Service Large Commercial Time-Of- Use Service |

HAWAIIAN ELECTRIC COMPANY, INC.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

Supplement To:

| Schedule | R - | Residential Service |
|----------|---------|---|
| Schedule | G – | General Service - Non-Demand |
| Schedule | J – | General Service - Demand |
| Schedule | DS - | Large Power Directly Served Service |
| Schedule | Р – | Large Power Service |
| Schedule | F - | Public Street Lighting, Highway |
| | | Lighting and Park and Playground |
| | | Floodlighting |
| Schedule | U – | Time-of-Use Service |
| Schedule | TOU-R - | Residential Time-of-Use Service |
| Schedule | TOU-G - | Small Commercial Time-of-Use Service |
| Schedule | TOU-J - | Commercial Time-of-Use Service |
| Schedule | TOU-P - | Large Commercial Time-of-Use Service |
| Schedule | SS - | Standby Service |
| Schedule | TOU EV- | Residential Time-of-Use Service with |
| | | Electric Vehicle Pilot |
| Schedule | EV-F - | Commercial Public Electric Vehicle |
| | | Charging Facility Service Pilot |
| Schedule | TOU-RI- | Residential Interim Time-of-Use Service |

All terms and provisions of the above listed rate schedules applicable except that the total base rate charges for each billing period shall be adjusted by the Revenue Balancing Account Rate Adjustments shown below:

A: PURPOSE:

The purpose of the Revenue Balancing Account ("RBA") is to record: 1) the difference between the Hawaiian Electric Company's target revenue and recorded adjusted revenue, and 2) monthly interest applied to the simple average of the beginning and ending month balances in the RBA. In addition, the recovery provision of this tariff provides for collection or return of the calendar year-end balance in the RBA and recovery or refund of the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits provided in the Rate Adjustment Mechanism ("RAM") Provision, and any revenue adjustment provided in accordance with the Performance Incentive Mechanism Provision, over the subsequent June $1^{\rm st}$ through May 31st period. Tracking of target revenue and recorded adjusted revenue commenced on the effective date of the tariff that implemented the Final Decision and Order in Hawaiian Electric's 2009 test year rate case, Docket No. 2008-0083, consistent with the Final Decision and Order in the Decoupling case, Docket No. 2008-0274.

HAWAIIAN ELECTRIC COMPANY, INC.

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018.

Transmittal Letter Dated July 23, 2018

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

B: TARGET REVENUE:

For the purpose of the RBA, the target revenue is the annual electric revenue approved by the Public Utilities Commission in the last issued Decision & Order in the Company's most recent test year general rate case, excluding revenue for fuel and purchased power expenses that are recovered either in base rates or in a purchased power adjustment clause; excluding revenue being separately tracked or recovered through any other surcharge or rate tracking mechanism; and excluding amounts for applicable revenue taxes;

Plus: Any effective RAM Revenue Adjustment calculated under the RAM provision for years subsequent to the most recent rate case test year for which the Commission has issued a Decision & Order; and any Performance Incentive Adjustment provided for in accordance with the Performance Incentive Mechanism Provision; and

Less: Any applicable Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits calculated under the RAM provision.

Adjusted by: Other adjustments, as applicable, in accordance with Commission's Order authorizing such adjustment. Other adjustments, if any, are shown in the table *Target Revenue Currently in Effect*, provided in section H.

The target revenue shall be revised to correct for any errors in the calculation of the RAM Revenue Adjustment, Performance Incentive Adjustment, recorded adjusted revenues or other RBA accounting determinations (collectively "target revenue determinations") for any previous period and for revisions to RAM Revenue Adjustments or Performance Incentive Adjustments as a result of subsequent Commission orders that change the basis of previously calculated RAM Revenue Adjustments and/or Performance Incentive Adjustments. corrections of errors in previously calculated target revenue determinations, the target revenue shall be adjusted as of the date that the correct determinations would have been reflected in target revenue. For changes in the RAM Revenue Adjustment and/or Performance Incentive Adjustments as a result of subsequently issued Commission orders, the target revenue shall be adjusted as of the effective date of changes that are implemented pursuant to the subsequently issued Commission order.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 28, 2019.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

The Commission and the Consumer Advocate will be notified of the target revenue revisions or corrections prior to implementation by the Company. There is no presumption that the target revenue changes are ultimately warranted or correct. In the annual RBA review transmittal ("RBA Review Transmittal") filed on or before March 31 of each year, the utility will have the burden to demonstrate that the interim changes for the previous calendar year are warranted and correctly applied. The Consumer Advocate will provide comments regarding the changes with its Statement of Position. The RBA balance and RBA Rate Adjustment for the following year will reflect any appropriate modifications to the change made by the utility in the prior year if necessary.

HAWAIIAN ELECTRIC COMPANY, INC.

REVISED SHEET NO. 92B Effective February 16, 2018

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

Monthly Allocation Factors for the Target Revenue are as follows:

| January | 8.19% |
|-----------|---------------------|
| February | 7.59% |
| March | 8.10% |
| April | 7.98% |
| May | 8.40% |
| June | 8.07% |
| July | 8.70% |
| August | 8.94% |
| September | 8.65% |
| October | 8.84% |
| November | 8.26% |
| December | <u>8.28</u> % |
| Total | $10\overline{0.00}$ |
| | |

These factors are based on the mWh sales forecast that is approved by the Commission in Hawaiian Electric's 2017 test year rate case and shall be updated in any subsequent test year rate case.

C: BALANCING ACCOUNT ENTRIES:

Entries to the RBA will be recorded monthly. A debit entry to the RBA will be made equal to the target revenue as defined in Section B. above, times the appropriate monthly allocation factor in the table above. A credit entry to the RBA will be made equal to the recorded adjusted revenue. The recorded adjusted revenue is defined to include the electric sales revenue from authorized base rates, plus revenue from any authorized interim rate increase, plus revenue from any RBA rate adjustment, but excluding revenue for fuel and purchased power expenses, IRP/DSM, any Commission Ordered one-time rate refunds or credits or other surcharges, and adjusted to remove amounts for applicable revenue taxes.

Interest will be recorded monthly to the RBA by multiplying the simple average of the beginning and ending month balance in the RBA times the Interest Rate divided by 12. The Interest Rate shall be the short term debt rate as established in deriving the consolidated cost of capital in the Company's last full rate case. The Interest Rate prior to March 1, 2014 shall be 6 percent.

D: RECOVERY OF BALANCING ACCOUNT AMOUNTS:

In its annual RBA Review Transmittal, the Company will file with the Commission a statement of the previous calendar year-end balance in the RBA and the RAM Revenue Adjustment for the current calendar year, along with supporting calculations.

HAWAIIAN ELECTRIC COMPANY, INC.

Docket No. 2016-0328; Order No. 35280, issued February 9, 2018. Transmittal Letter Dated February 12, 2018.

REVISED SHEET NO. 92C Effective January 1, 2018

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

Both an amortization of the previous calendar year-end balance in the RBA, adjusted for any Earnings Sharing Revenue Credits or Major Capital Projects Credits, Baseline Capital Projects Credits or corrections, any Performance Incentive Adjustment provided in accordance with the Performance Incentive Mechanism Provision and the RAM Revenue Adjustment will be recovered through a per-kWh RBA rate adjustment, over the 12 months from June 1 of the current calendar year to May 31 of the succeeding calendar year. The recovery through the RBA Rate Adjustment of a RAM Revenue Adjustment calculated for a calendar year that is also a rate case test year shall terminate on the effective date of tariff rates that implement a Commission approved base revenue level authorized in the Company's test year rate case.

Revisions to Target Revenue based on corrections for errors and subsequently issued Commission orders, described in Section B above, will not be reflected in the RBA Rate Adjustment until a succeeding June 1 to May 31 period, unless otherwise ordered or approved by the Commission.

On or before March 31 of each year, the Company shall file with the Commission, the Consumer Advocate, and each party to the Company's most recent rate case proceeding, an RBA Review Transmittal supporting the implementation of the RBA Provision, including RBA reconciliation, implementation of applicable components of the RAM Provision and Performance Incentive Mechanism Provision, determination and adjustments of target revenues, determination of the RBA Rate Adjustment; and documenting any errors, corrections and adjustments to Target Revenues in the preceding calendar year and prior to the transmittal date.

Complete, indexed workpapers and electronic files supporting the previous year-end balance in the RBA and target revenue determinations shall be provided to the Commission, the Consumer Advocate and all other parties to the Utility's most recent rate case proceeding ("Other Rate Case Parties"), if any, as part of the annual RBA Review Transmittal filing. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, Other Rate Case Parties, and other interested persons that may propose any adjustments necessary to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

REVISED SHEET NO. 92D Effective June 1, 2019

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

As described in Sections 6-61-61 and 6-61-111 of the Hawaii Administrative Rules, Title 6, Chapter 61, based upon the Company's filed schedules and in the absence of any protests submitted by the Consumer Advocate, Other Rate Case Parties, or other interested persons, not later than 15 days before June 1st, the RBA Rate Adjustment shall go into effect on June 1st, and the Commission shall confirm the commencement of the RBA Rate Adjustment in its monthly Tariff Order.

E: REVENUE BALANCING ACCOUNT RATE ADJUSTMENT:

The RBA Rate Adjustment is comprised of the calculated values from Section D above, adjusted to include amounts for applicable revenue taxes, and calculated based on the Company's forecast of mWh sales over the RBA Rate Adjustment recovery period.

The RBA Rate Adjustment shall remain unchanged during the recovery period unless further modification is required by order or approval of the Commission, except as specifically provided above.

RBA Rate Adjustment

All Rate Schedules 0.9978 ¢/kWh

F. NOTICE

Notice of the annual Revenue Balancing Account Rate Adjustment filing shall be provided to all affected customers of the Utility in accordance with the provisions of this section by publication in newspapers of general circulation within 14 days and by including notification with its billing statements within 60 days after the Company makes its annual RBA Review Transmittal filing pursuant to this tariff. The notice to customers shall include the following information:

- a) A description of the proposed revision of revenues, Earnings Sharing Credits, and Major or Baseline Capital Projects Credits;
- b) The effect on the rates applicable to each customer class and on the typical bill for residential customers; and
- c) The Company's address, telephone number and website where information concerning the proposed Revenue Balancing Account Rate Adjustment may be obtained.

G: COMMISSION'S AUTHORITY

The Commission may modify or suspend any or all parts of this Revenue Balancing Account Provision. Such suspension shall remain in place until removed by Commission Order.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter Dated May 28, 2019.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

H: TARGET REVENUE CURRENTLY IN EFFECT

Hawaiian Electric Company, Inc. Annual Target Revenue (\$000s)

| | <u>Description</u> | <u>Amount</u> |
|------------------|---|--|
| 1 2 3 | Electric Sales Revenue (Unadjusted) Tax Act Implementation Lag Electric Sales Revenue (Adjusted) | \$1,531,852 (\$2,143) \$1,529,709 |
| 4 5 6 7 | Less: Fuel Expense Purchase Power Expense Revenue Tax on Electric Sales Revenue Last Rate Order Target Revenues | (\$327,609) (\$466,211) (\$135,915) \$599,974 |
| 8 | Authorized RAM Revenues | \$22,938 |
| 9 | Revenue Tax | (\$2,038) |
| 10 | Net RAM Adjustment | \$20,900 |
| 11 | Authorized MPIR Revenues | \$19,811 |
| 12 | Revenue Tax | (\$1,760) |
| 13 | Net MPIR Adjustment | \$18,051 |
| 14 15 16 | Earnings Sharing Revenue Credits Revenue Tax Net Earnings Sharing Revenue Credits | \$0 \$0 \$0 |
| 17 | Performance Incentive Mechansim (PIM) | \$54 |
| 18 | Revenue Tax | (\$5) |
| 19 | Net PIM Reward (Penalty) | \$49 |
| 20 | 2017 Test Year Final D&O Refund | (\$48) |
| 21 | Revenue Tax | \$4 |
| 22 | Net 2017 Test Year Final D&O Refund | (\$44) |
| 23 | On-Bill Financing Pgm Implementation Costs | \$844 |
| 24 | Revenue Tax | (\$75) |
| 25 | Net On-Bill Financing Adjustment | \$769 |
| 26 | Effective Target Revenue | \$639,699 |

Notes:

 $Totals\ may not\ add,\ due\ to\ rounding.$

Lines 1,4,5: Final Decision and Order No. 35545, issued June 22, 2018 in

Docket No. 2016-0328. Exhibit A.

Line 2: Hawaiian Electric March 2018 Settlement Tariff Sheets, Attachment 1,

Line 2. Filed March 16, 2018 in Docket No. 2016-0328.

Lines 6,9,12,15,18,21,24: Revenue Tax based on 8.885% statutory rates.

Lines 8,11,14,17,20,23,26 Transmittal Nos. 19-01, 19-02, 19-03 Consolidated (Decoupling)

Schedule B1 (Scenario 2), filed May 28, 2019.

Change in Effective Target Revenue for MPIR is effective January 1, 2019.

See Order 35556, filed June 27, 2018 in Docket No. 2017-0213.

HAWAIIAN ELECTRIC COMPANY, INC.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

I: HISTORICAL REFERENCE

| Category | Effective Period | Effective Target Revenue (\$000) | Change in Target Revenue (\$000) | Source |
|---|---------------------------------|---|---|--|
| Annual Decoupling Filing | 6/1/2017 thru 2/15/2018 | \$604,302 | N/A (1/1/2018 Baseline) | Schedule B1 filed in Transmittal No. 17-02 on 3/31/2017. |
| 2017 Test Year Rate Case (Interim) | 2/16/2018 thru 4/12/2018 | \$637,077 | \$32,775 | Schedule B1 filed in Docket No. 2016-0328 on 1/19/2018. |
| 2017 Test Year Rate Case (Interim) | 4/13/2018 thru 5/31/2018 | \$599,960 | (37,117) | Schedule B1 filed in Docket No. 2016-0328 on 3/16/2018. |
| Annual Decoupling Filing | 6/1/2018 thru 6/30/2018 | \$612,574 | \$12,614 | Schedule B1 filed in Transmittal No. 18-01 on 3/29/2018. |
| MPIR (Schofield) | 7/1/2018 thru 9/30/2018 | \$618,587 | \$6,013 | Schedule B1 filed in Docket No. 2017-0213 on 7/18/2018. |
| MPIR (Schofield) | 10/1/2018 thru 12/31/2018 | \$620,374 | \$1,787 | Schedule B1 filed in Docket No. 2017-0213 on 12/21/2018. |
| MPIR (Schofield) | 1/1/2019 thru 5/31/2019 | \$630,624 | \$10,250 | Schedule B1 filed in Transmittal No. 19-01 on 2/7/2019. |
| Annual Decoupling Filing | 6/1/2019 (current) | \$639,699 | \$9 , 075 | Schedule B1 (Scenario 2) filed in Transmittal No. 19-01 on 5/28/2019. |

PERFORMANCE INCENTIVE MECHANISM PROVISION

Introduction

This Performance Incentive Mechanism ("PIM") Provision provides for the determination of a PIM Financial Incentive for each approved PIM for each Evaluation Period, based on Measured Performance compared to an established Performance Target for each PIM, as specified below.

The sum of the PIM Financial Incentives determined for all PIMs for the Evaluation Period will be the Performance Incentive Adjustment, which will be applied as an adjustment to the effective Target Revenue and will be recovered from or credited to customers through the RBA Rate Adjustment, as defined by and in accordance with the terms of the Revenue Balancing Account ("RBA") Provision.

Annual PIM Provision Transmittal

On or before March 31 of the year following an Evaluation Period, the Company shall file with the Commission, the Consumer Advocate, and each party to the Company's most recent rate case proceeding, a transmittal documenting the Measured Performance and calculation of the PIM Financial Incentives and Performance Incentive Adjustment for the Evaluation Period. Complete, indexed schedules, workpapers and electronic files supporting the transmittal shall be provided with the transmittal. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, other rate case parties, and other interested persons that may propose any adjustments necessary to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

The review of the annual PIM Provision transmittal will be conducted concurrent with and in conjunction with the annual RBA Review Transmittal. The Performance Incentive Adjustment will be determined annually based on the PIM Provision transmittal and, after review and subject to explicit approval by the Commission, will become effective on June 1 of the year following the Evaluation Period, concurrent and in conjunction with determination of Target Revenues and the RBA Rate Adjustment in accordance with the RBA Provision. Any approved Performance Incentive Adjustment will be applied as monthly adjustments to Target Revenues for the twelve month period commencing June 1 of the year following the Evaluation Period in accordance with the Monthly Allocation Factors identified in the RBA Provision.

The Performance Targets, Deadbands and the amount of Maximum Financial Incentives used to determine the PIM Financial Incentive

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

levels for each of the PIMs shall be re-determined upon issuance of an interim or final order in a general rate case for each Company and shall remain constant in interim periods, unless otherwise amended, as necessary, by order of the Commission.

In the event that Performance Targets, Deadbands or the amounts of Maximum Financial Incentives are updated or amended by order of the Commission during the Evaluation Period, the Performance Targets, Deadbands and the amounts of Maximum Financial Incentives used in determining the amount of PIM Financial Incentives shall be a prorated weighted average based on the number of days of the Evaluation Period each parameter was effective.

Any revenue adjustments approved in accordance with this PIM Provision shall be excluded from the determination of Earnings Sharing Credits provided for in the Rate Adjustment Mechanism Provision ("RAM Provision").

The Performance Incentive Adjustment, and any prior year Performance Incentive Adjustment, shall be recalculated for errors in prior calculations and for subsequent Commission orders that change the basis for prior calculations. The effect of such changes shall be implemented as described in the RBA Provision, except that, the Performance Target, Deadband and Maximum Financial Incentive amounts determined in this PIM Provision shall not be recalculated based on errors in the calculation of these parameters and shall remain as specified unless and until changed by order of the Commission.

Evaluation Period

The Evaluation Period is defined as the annual twelve month calendar year period ending December 31, over which Measured Performance is determined and compared to the established Performance Target for each PIM described below. The first Evaluation Period shall begin January 1, 2018.

PIM Financial Incentive Calculation

For each PIM below, a Performance Target is specified, developed based on historical performance data. A Deadband is specified for each Performance Target in order to provide a satisfactory range of performance within which no reward or penalty amount is assessed.

A Maximum Financial Incentive amount is specified for each PIM with separate identification of a Maximum Reward Amount and a Maximum Penalty Amount.

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

Measured Performance for the Evaluation Period is compared to the Performance Target for each PIM. If the difference between Measured Performance and the Performance Target is less than or equal to the Deadband amount, no reward or penalty is awarded and the amount of the PIM Financial Incentive is zero. difference between Measured Performance and the Performance Target exceeds the Deadband amount, a reward or penalty ratio is calculated where the difference between Measured Performance and the Performance Target, less the Deadband amount, is the numerator and the Deadband amount is the denominator. This ratio is multiplied by either the Maximum Reward Amount or Maximum Penalty Amount, as applicable, to determine the PIM Financial Incentive for each PIM. The magnitude of the PIM Financial Incentive for each PIM shall not exceed 100% of the magnitude of the applicable Maximum Reward Amount or Maximum Penalty Amount established for each PIM.

Reliability Performance Incentive Mechanisms

There are two reliability PIMs: 1) System Average Interruption Frequency Index ("SAIFI"); and 2) System Average Interruption Duration Index ("SAIDI"). SAIFI is a measure of the average frequency of outages, defined as the annual total number of customer interruptions divided by the total number of customers served. SAIDI is a measure of the average duration of outage, defined as the sum of all customer interruption durations (in minutes) divided by the total number of customers served. The SAIFI and SAIDI Measured Performance and Performance Targets are determined using the IEEE Standard 1366 methodology.

For the Reliability Performance Incentive Mechanisms, the 2008-2017 record of historical performance data was used to establish the Performance Target and the Deadband. The Deadband was calculated as ±1 standard deviation of the historical performance data. Accordingly, 100% of the penalty is achieved when Measured Performance is equal to or greater than 2 standard deviations from the Performance Target.

SAIFI:

Performance Target: 1.103 interruptions per customer during the one-year Evaluation Period

Deadband: ± 0.088 interruptions (1 Standard Deviation)

HAWAIIAN ELECTRIC COMPANY, INC

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.

REVISED SHEET NO. 98C Effective September 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

Range for no penalty: 1.015 interruptions to 1.191 interruptions per customer (± 1 Standard Deviation from Target)

Rewards: Not Applicable

Penalties for greater than 1.191 interruptions per customer

Maximum Reward Amount: Not Applicable Maximum Penalty Amount: \$2,276,417.

The Maximum Penalty Amount was determined to be equal to 0.20% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

SAIDI:

Target: 99.23 minutes per outage

Deadband: ± 8.96 minutes (1 Standard Deviation)

Range for no penalty: 90.27 minutes to 108.19 minutes per outage (± 1 Standard Deviation from Target)

Rewards: Not Applicable

Penalties for greater than 108.19 minutes per outage

Maximum Reward Amount: Not Applicable Maximum Penalty Amount: \$2,276,417.

The Maximum Penalty Amount was determined to be equal to 0.20% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

Call Center Performance Incentive Mechanism

The Call Center Performance PIM measures the performance of the utility call center in terms of the percentage of calls answered within thirty (30) seconds. The calculation of the call center performance shall exclude blocked calls from the denominator.

The Performance Target for the Call Center Performance Incentive Mechanism was calculated based on the average of quarterly data from Quarter 3 of 2016 to Quarter 2 of 2018.

HAWAIIAN ELECTRIC COMPANY, INC

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.

REVISED SHEET NO. 98D Effective June 1, 2019

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

<u>Call Center Performance:</u>

Performance Target: 80.10% of calls answered within 30 seconds

Deadband: +/- 3.00% of calls answered within 30 seconds

Range for no reward or penalty: 77.10 % of calls answered to 83.10% of calls answered.

Rewards apply for greater than 83.10 % of calls answered Penalties apply for less than 77.10 % of calls answered

Maximum Reward Amount: \$910,567. Maximum Penalty Amount: \$910,567.

The magnitude of the Maximum Reward Amount and Maximum Penalty Amount were determined to be equal to 0.08% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

Additional PIMs:

The Commission may order the establishment of one or more PIMs, and the targets, deadbands, rewards, penalties, and allocations for that PIM, as applicable, shall be implemented as specified in the Commission's order that approved the applicable PIM, and the applicable PIM Financial Incentive shall be included in the Performance Incentive Adjustment.

Commission's Authority

The Commission may suspend any or all parts of this PIM Provision. Such suspension shall remain in place until removed by Commission order.

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

<u>Historical Reference</u>

The following table summarizes the prior PIMs in effect, as these values may be applicable during certain portions of the Evaluation Period.

| PIM: | Effective Period: | Performance Target: | Deadband: | Maximum Reward: | Maximum Penalty: |
|----------------|--------------------------------|---|-----------|--------------------|---------------------|
| | | | | | |
| SAIFI | 1/1/2018 thru 2/15/2018 | 1.116 interruptions per customer | +/- 0.090 | N/A | \$2,039,094 |
| SAIFI | 2/16/2018 thru 4/12/2018 | 1.116 interruptions per customer | +/- 0.090 | N/A | \$2,260,799 |
| SAIFI | 4/13/2018 thru 8/31/2018 | 1.116 interruptions per customer | +/- 0.090 | N/A | \$2,276,417 |
| SAIDI | 1/1/2018 thru 2/15/2018 | 99.03 minutes Per outage | +/- 9.07 | N/A | \$2,039,094 |
| SAIDI | 2/16/2018 thru 4/12/2018 | 99.03 minutes Per outage | +/- 9.07 | N/A | \$2,260,799 |
| SAIDI | 4/13/2018 thru 8/31/2018 | 99.03 minutes Per outage | +/- 9.07 | N/A | \$2,276,417 |
| | | | | | |
| Call Center | 1/1/2018 thru 2/15/2018 | 79.07% of calls answered within 30 sec. | +/- 3.00% | \$815,638 | \$815 , 638 |
| Call | 2/16/2018 | 79.46% of | +/- 3.00% | \$904,320 | \$904,320 |
| Center | thru 4/12/2018 | calls answered within 30 sec. | | | |
| Call Center | 4/13/2018 thru 8/31/2018 | 79.56% of calls answered within 30 sec. | +/- 3.00% | \$910,567 | \$910,567 |

HAWAIIAN ELECTRIC COMPANY, INC

HAWAIIAN ELECTRIC ATTACHMENT 1A

Superseding Revised Sheet No. 50E REVISED SHEET NO. 50E Effective May 1, 2019 Effective June 1, 2019

Deleted: February 1, 2019

RATE SCHEDULES (continued)

| Sheet | Schedule | Date Effective | Character of Service |
|-------------|----------|--------------------|--|
| 92 | "RBA" | September 1, 2018 | Revenue Balancing Account Provision |
| 92A | "RBA" | June 1, 2019, | Revenue Balancing Account Provision |
| 92A.1 | "RBA" | June 1, 2019 | Revenue Balancing Account |
| | | | Provision |
| 92B | "RBA" | February 16, 2018 | Revenue Balancing Account |
| | | | Provision |
| 92C | "RBA" | January 1, 2018 | Revenue Balancing Account |
| 0.05 | #pp. # | - 1 0010 | Provision |
| 92D | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 92E | "RBA" | June 1, 2019 | Revenue Balancing Account |
| 721 | NDA | oune 1, 2015 | Provision |
| 92F | "RBA" | June 1, 2019 | Revenue Balancing Account |
| | | , | Provision |
| 93 | "RAM" | June 1, 2013 | Rate Adjustment |
| | | | Mechanism Provision |
| 93A | "RAM" | June 1, 2013 | Rate Adjustment |
| | | | Mechanism Provision |
| 93B | "RAM" | June 8, 2015 | Rate Adjustment |
| 0.0- | | - 0 0015 | Mechanism Provision |
| 93C | "RAM" | June 8, 2015 | Rate Adjustment |
| 93D | "RAM" | June 1, 2017 | Mechanism Provision Rate Adjustment |
| 930 | NAM | Julie 1, 2017 | Mechanism Provision |
| 93E | "RAM" | June 8, 2015 | Rate Adjustment |
| 302 | 14111 | 0 and 0, 2010 | Mechanism Provision |
| 93F | "RAM" | June 1, 2013 | Rate Adjustment |
| | | | Mechanism Provision |
| 93G | "RAM" | June 1, 2018 | Rate Adjustment |
| | | | Mechanism Provision |
| 93H | "RAM" | June 1, 2018 | Rate Adjustment |
| 0.0 = | #P334# | - 1 0010 | Mechanism Provision |
| 931 | "RAM" | June 1, 2018 | Rate Adjustment |
| 94 | "DD7C" | Marr 1 2010 | Mechanism Provision Purchased Power |
| 24 | "PPAC" | <u>May</u> 1, 2019 | Adjustment Clause |
| 94A | "PPAC" | May 1, 2019 | Purchased Power |
| J 111 | 11110 | <u> </u> | Adjustment Clause |
| 94B | "PPAC" | May 1, 2019 | Purchased Power |
| | | · | Adjustment Clause |
| | | | |

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HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter Dated May 28,2019.

Deleted: February 22, 2019

Superseding SHEET NO. 50F REVISED SHEET NO. 50F Effective January 1, 2019 Effective June 1, 2019

RATE SCHEDULES (continued)

| Sheet | Schedule | Date Effective | Character of Service |
|-------|----------|-------------------|--|
| 95 | EV-F | January 1, 2019 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 95A | EV-F | January 1, 2019 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 95B | EV-F | December 12, 2017 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 96 | EV-U | December 12, 2017 | Commercial Public Electric Vehicle Charging Service Pilot |
| 96A | EV-U | December 12, 2017 | Commercial Public Electric Vehicle Charging Service Pilot |
| 97 | TOU-RI | October 18, 2018 | Residential Interim Time- of-Use Service |
| 97A | TOU-RI | January 1, 2019 | Residential Interim Time- of-Use Service |
| 97B | TOU-RI | October 18, 2018 | Residential Interim Time- of-Use Service |
| 97C | TOU-RI | January 1, 2019 | Residential Interim Time- |
| 98 | "PIM" | January 1, 2018 | of-Use Service Performance Incentive |
| 98A | "PIM" | January 1, 2018 | Mechanism Provision Performance Incentive Mechanism Provision |
| 98B | "PIM" | September 1, 2018 | Performance Incentive Mechanism Provision |
| 98C | "PIM" | September 1, 2018 | Performance Incentive Mechanism Provision |
| 98D | "PIM" | June 1, 2019 | |
| 98E | "PIM" | September 1, 2018 | Performance Incentive Mechanism Provision |
| 99 | TOU-P | January 1, 2019 | Large Commercial Time-Of- Use Service |
| 99A | TOU-P | January 1, 2019 | Large Commercial Time-Of- Use Service |
| 99B | TOU-P | January 1, 2019 | Large Commercial Time-Of- |
| 99C | TOU-P | January 1, 2019 | Use Service Large Commercial Time-Of- Use Service |

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HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 28, 2019.

Deleted: Docket No. 2016-0328; Order No. 35927, Filed on December 7, 2018.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

Supplement To:

| Schedule Schedule Schedule Schedule | G – J – | Residential Service General Service - Non-Demand General Service - Demand Large Power Directly Served Service |
|--|------------|---|
| Schedule | P - | Large Power Service |
| Schedule | F - | Public Street Lighting, Highway |
| | | Lighting and Park and Playground Floodlighting |
| Schedule | U - | Time-of-Use Service |
| Schedule | TOU-R - | Residential Time-of-Use Service |
| Schedule | TOU-G - | Small Commercial Time-of-Use Service |
| Schedule | TOU-J - | Commercial Time-of-Use Service |
| Schedule | TOU-P - | Large Commercial Time-of-Use Service |
| Schedule | SS - | Standby Service |
| Schedule | TOU EV- | Residential Time-of-Use Service with |
| | | Electric Vehicle Pilot |
| Schedule | EV-F - | Commercial Public Electric Vehicle |
| | | Charging Facility Service Pilot |
| Schedule | TOU-RI- | Residential Interim Time-of-Use Service |

All terms and provisions of the above listed rate schedules applicable except that the total base rate charges for each billing period shall be adjusted by the Revenue Balancing Account Rate

A: PURPOSE:

Adjustments shown below:

The purpose of the Revenue Balancing Account ("RBA") is to record: 1) the difference between the Hawaiian Electric Company's target revenue and recorded adjusted revenue, and 2) monthly interest applied to the simple average of the beginning and ending month balances in the RBA. In addition, the recovery provision of this tariff provides for collection or return of the calendar year-end balance in the RBA and recovery or refund of the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits provided in the Rate Adjustment Mechanism ("RAM") Provision, and any revenue adjustment provided in accordance with the Performance Incentive Mechanism Provision, over the subsequent June 1st through May 31st period. Tracking of target revenue and recorded adjusted revenue commenced on the effective date of the tariff that implemented the Final Decision and Order in Hawaiian Electric's 2009 test year rate case, Docket No. 2008-0083, consistent with the Final Decision and Order in the Decoupling case, Docket No. 2008-0274.

HAWAIIAN ELECTRIC COMPANY, INC.

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018.

Transmittal Letter Dated July 23, 2018

REVISED SHEET NO. 92A Effective June 1, 2019

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

B: TARGET REVENUE:

For the purpose of the RBA, the target revenue is the annual electric revenue approved by the Public Utilities Commission in the last issued Decision & Order in the Company's most recent test year general rate case, excluding revenue for fuel and purchased power expenses that are recovered either in base rates or in a purchased power adjustment clause; excluding revenue being separately tracked or recovered through any other surcharge or rate tracking mechanism; and excluding amounts for applicable revenue taxes;

Plus: Any effective RAM Revenue Adjustment calculated under the RAM provision for years subsequent to the most recent rate case test year for which the Commission has issued a Decision & Order; and any Performance Incentive Adjustment provided for in accordance with the Performance Incentive Mechanism Provision; and

Less: Any applicable Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits calculated under the RAM provision.

Adjusted by: Other adjustments, as applicable, in accordance with Commission's Order authorizing such adjustment. Other adjustments, if any, are shown in the table Target Revenue Currently in Effect, provided in section H.

The target revenue shall be revised to correct for any errors in the calculation of the RAM Revenue Adjustment, Performance Incentive $\frac{1}{2}$ Adjustment, recorded adjusted revenues or other RBA accounting determinations (collectively "target revenue determinations") for any previous period and for revisions to RAM Revenue Adjustments or Performance Incentive Adjustments as a result of subsequent Commission orders that change the basis of previously calculated RAM Revenue Adjustments and/or Performance Incentive Adjustments. corrections of errors in previously calculated target revenue determinations, the target revenue shall be adjusted as of the date that the correct determinations would have been reflected in target revenue. For changes in the RAM Revenue Adjustment and/or Performance Incentive Adjustments as a result of subsequently issued Commission orders, the target revenue shall be adjusted as of the effective date of changes that are implemented pursuant to the subsequently issued Commission order.

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HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 28, 2019.

SHEET NO. 92A.1 Effective June 1, 2019

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

The Commission and the Consumer Advocate will be notified of the target revenue revisions or corrections prior to implementation by the Company. There is no presumption that the target revenue changes are ultimately warranted or correct. In the annual RBA review transmittal ("RBA Review Transmittal") filed on or before March 31 of each year, the utility will have the burden to demonstrate that the interim changes for the previous calendar year are warranted and correctly applied. The Consumer Advocate will provide comments regarding the changes with its Statement of Position. The RBA balance and RBA Rate Adjustment for the following year will reflect any appropriate modifications to the change made by the utility in the prior year if necessary.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 28, 2019.

Superseding REVISED SHEET NO. 92B Effective June 1, 2017

REVISED SHEET NO. 92B Effective February 16, 2018

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

Monthly Allocation Factors for the Target Revenue are as follows:

| January February | 8.19% 7.59% |
|---------------------|----------------|
| March | 8.10% |
| | |
| April | 7.98% |
| May | 8.40% |
| June | 8.07% |
| July | 8.70% |
| August | 8.94% |
| September | 8.65% |
| October | 8.84% |
| November | 8.26% |
| December | 8.28% |
| Total | 100.00% |
| | |

These factors are based on the mWh sales forecast that is approved by the Commission in Hawaiian Electric's 2017 test year rate case and shall be updated in any subsequent test year rate case.

C: BALANCING ACCOUNT ENTRIES:

Entries to the RBA will be recorded monthly. A debit entry to the RBA will be made equal to the target revenue as defined in Section B. above, times the appropriate monthly allocation factor in the table above. A credit entry to the RBA will be made equal to the recorded adjusted revenue. The recorded adjusted revenue is defined to include the electric sales revenue from authorized base rates, plus revenue from any authorized interim rate increase, plus revenue from any RBA rate adjustment, but excluding revenue for fuel and purchased power expenses, IRP/DSM, any Commission Ordered one-time rate refunds or credits or other surcharges, and adjusted to remove amounts for applicable revenue taxes.

Interest will be recorded monthly to the RBA by multiplying the simple average of the beginning and ending month balance in the RBA times the Interest Rate divided by 12. The Interest Rate shall be the short term debt rate as established in deriving the consolidated cost of capital in the Company's last full rate case. The Interest Rate prior to March 1, 2014 shall be 6 percent.

D: RECOVERY OF BALANCING ACCOUNT AMOUNTS:

In its annual RBA Review Transmittal, the Company will file with the Commission a statement of the previous calendar year-end balance in the RBA and the RAM Revenue Adjustment for the current calendar year, along with supporting calculations.

HAWAIIAN ELECTRIC COMPANY, INC.

Docket No. 2016-0328; Order No. 35280, issued February 9, 2018. Transmittal Letter Dated February 12, 2018.

Superseding REVISED SHEET NO. 92C Effective June 1, 2017

REVISED SHEET NO. 92C Effective January 1, 2018

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

Both an amortization of the previous calendar year-end balance in the RBA, adjusted for any Earnings Sharing Revenue Credits or Major Capital Projects Credits, Baseline Capital Projects Credits or corrections, any Performance Incentive Adjustment provided in accordance with the Performance Incentive Mechanism Provision and the RAM Revenue Adjustment will be recovered through a per-kWh RBA rate adjustment, over the 12 months from June 1 of the current calendar year to May 31 of the succeeding calendar year. The recovery through the RBA Rate Adjustment of a RAM Revenue Adjustment calculated for a calendar year that is also a rate case test year shall terminate on the effective date of tariff rates that implement a Commission approved base revenue level authorized in the Company's test year rate case.

Revisions to Target Revenue based on corrections for errors and subsequently issued Commission orders, described in Section B above, will not be reflected in the RBA Rate Adjustment until a succeeding June 1 to May 31 period, unless otherwise ordered or approved by the Commission.

On or before March 31 of each year, the Company shall file with the Commission, the Consumer Advocate, and each party to the Company's most recent rate case proceeding, an RBA Review Transmittal supporting the implementation of the RBA Provision, including RBA reconciliation, implementation of applicable components of the RAM Provision and Performance Incentive Mechanism Provision, determination and adjustments of target revenues, determination of the RBA Rate Adjustment; and documenting any errors, corrections and adjustments to Target Revenues in the preceding calendar year and prior to the transmittal date.

Complete, indexed workpapers and electronic files supporting the previous year-end balance in the RBA and target revenue determinations shall be provided to the Commission, the Consumer Advocate and all other parties to the Utility's most recent rate case proceeding ("Other Rate Case Parties"), if any, as part of the annual RBA Review Transmittal filing. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, Other Rate Case Parties, and other interested persons that may propose any adjustments necessary to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

Superseding <u>REVISED</u> SHEET NO. 92D Effective June 1, 2018

REVISED SHEET NO. 92D Effective June 1, 2019 Deleted:

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REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

As described in Sections 6-61-61 and 6-61-111 of the Hawaii Administrative Rules, Title 6, Chapter 61, based upon the Company's filed schedules and in the absence of any protests submitted by the Consumer Advocate, Other Rate Case Parties, or other interested persons, not later than 15 days before June 1st, the RBA Rate Adjustment shall go into effect on June 1st, and the Commission shall confirm the commencement of the RBA Rate Adjustment in its monthly Tariff Order.

E: REVENUE BALANCING ACCOUNT RATE ADJUSTMENT:

The RBA Rate Adjustment is comprised of the calculated values from Section D above, adjusted to include amounts for applicable revenue taxes, and calculated based on the Company's forecast of mWh sales over the RBA Rate Adjustment recovery period.

The RBA Rate Adjustment shall remain unchanged during the recovery period unless further modification is required by order or approval of the Commission, except as specifically provided above.

RBA Rate Adjustment

F. NOTICE

Notice of the annual Revenue Balancing Account Rate Adjustment filing shall be provided to all affected customers of the Utility in accordance with the provisions of this section by publication in newspapers of general circulation within 14 days and by including notification with its billing statements within 60 days after the Company makes its annual RBA Review Transmittal filing pursuant to this tariff. customers shall include the following information: The notice to

- a) A description of the proposed revision of revenues, Earnings Sharing Credits, and Major or Baseline Capital Projects Credits;
- b) The effect on the rates applicable to each customer class and on the typical bill for residential customers; and
- c) The Company's address, telephone number and website where information concerning the proposed Revenue Balancing Account Rate Adjustment may be obtained.

G: COMMISSION'S AUTHORITY

The Commission may $\underline{modify\ or}$ suspend any or all parts of this Revenue Balancing Account Provision. Such suspension shall remain in place until removed by Commission Order.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter Dated May 28, 2019.

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Effective January 1, 2019 Effective June 1, 2019

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

H: TARGET REVENUE CURRENTLY IN EFFECT

Hawaiian Electric Company, Inc. Annual Target Revenue (\$000s)

| | Description | <u>Amount</u> |
|------------------|---|--|
| 1 | Electric Sales Revenue (Unadjusted) | \$1,531,852 |
| 2 | Tax Act Implementation Lag | (\$2,143) |
| 3 | Electric Sales Revenue (Adjusted) | \$1,529,709 |
| 4 5 6 7 | Less: Fuel Expense Purchase Power Expense Revenue Tax on Electric Sales Revenue Last Rate Order Target Revenues | (\$327,609) (\$466,211) (\$135,915) \$599,974 |
| 8 | Authorized RAM Revenues | \$22,938 |
| 9 | Revenue Tax | (\$2,038) |
| 10 | Net RAM Adjustment | \$20,900 |
| 11 | Authorized MPIR Revenues | \$19,811 |
| 12 | Revenue Tax | (\$1,760) |
| 13 | Net MPIR Adjustment | \$18,051 |
| 14 | Eamings Sharing Revenue Credits | \$0 |
| 15 | Revenue Tax | \$0 |
| 16 | Net Eamings Sharing Revenue Credits | \$0 |
| 17 | Performance Incentive Mechansim (PIM) | \$54 |
| 18 | Revenue Tax | (\$5) |
| 19 | Net PIM Reward (Penalty) | \$49 |
| 20 21 22 | 2017 Test Year Final D&O Refund Revenue Tax Net 2017 Test Year Final D&O Refund | (\$48) ———————————————————————————————————— |
| 23 | On-Bill Financing Pgm Implementation Costs | \$844 |
| 24 | Revenue Tax | (\$75) |
| 25 | Net On-Bill Financing Adjustment | \$769 |
| 26 | Effective Target Revenue | \$639,699 |

Notes:

Totals may not add, due to rounding.

Final Decision and Order No. 35545, issued June 22, 2018 in

Docket No. 2016-0328. Exhibit A

Hawaiian Electric March 2018 Settlement Tariff Sheets, Attachment 1, Line 2:

Line 2. Filed March 16, 2018 in Docket No. 2016-0328.

Lines 6,9,12,15,18,21,24: Revenue Tax based on 8.885% statutory rates.

Lines 8,11,14,17,20,23,26 Transmittal Nos. 19-01, 19-02, 19-03 Consolidated (Decoupling)

Schedule B1 (Scenario 2), filed May 28, 2019.

Change in Effective Target Revenue for MPIR is effective January 1, 2019.

See Order 35556, filed June 27, 2018 in Docket No. 2017-0213.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter Dated May 28, 2019.

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Deleted: Docket No. 2017-0213; Order No. 35953, issued December 14, 2018.¶

Deleted: December 21, 2018

SHEET NO. 92F Effective June 1, 2019

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

I: HISTORICAL REFERENCE

| Category | Effective | Effective | Change in | Source | | |
|------------------|-----------------|----------------------------|------------------------|--------------------|---|-------------|
| | Period | Target | Target | | | |
| | | Revenue | Revenue | | | |
| | | (\$000) | (\$000) | | | |
| | | 190001 | 190007 | | | |
| Annual | 6/1/2017 | \$604,302 | N/A | Schedule B1 | | |
| Decoupling | thru | 1000/000 | $\frac{1}{(1/1/2018)}$ | filed in | | |
| Filing | 2/15/2018 | | Baseline) | Transmittal | | |
| <u> </u> | 2/13/2010 | | <u>Dasciile</u> | No. 17-02 on | | |
| | | | | 3/31/2017. | | |
| 0017 8 | 0 /1 6 /0 0 1 0 | 2627 077 | 600 775 | | | |
| <u>2017 Test</u> | 2/16/2018 | <u>\$637,077</u> | \$32,775 | Schedule B1 | | |
| <u>Year Rate</u> | <u>thru</u> | | | <u>filed in</u> | | |
| Case | 4/12/2018 | | | Docket No. | | |
| (Interim) | | | | 2016-0328 on | | |
| | | | | 1/19/2018. | | |
| 2017 Test | 4/13/2018 | \$599,960 | (37, 117) | Schedule B1 | | |
| Year Rate | thru | 12221200 | 121111 | filed in | | |
| Case | 5/31/2018 | | | Docket No. | | |
| | 3/31/2010 | | | | | |
| (Interim) | | | | 2016-0328 on | | |
| | | | | <u>3/16/2018.</u> | | |
| <u>Annual</u> | 6/1/2018 | \$612,574 | \$12,614 | Schedule B1 | | |
| Decoupling | <u>thru</u> | | | filed in | | |
| Filing | 6/30/2018 | | | <u>Transmittal</u> | | |
| | | | | No. 18-01 on | | |
| | | | | 3/29/2018. | | |
| MPIR | 7/1/2018 | \$618,587 | \$6,013 | Schedule B1 | | |
| (Schofield) | thru | 40101301 | 40/013 | filed in | | |
| (Scholleid) | 9/30/2018 | | | Docket No. | | |
| | 9/30/2010 | | | | | |
| | | | | 2017-0213 on | | |
| | | | | 7/18/2018. | | |
| MPIR | 10/1/2018 | \$620,374 | <u>\$1,787</u> | <u>Schedule B1</u> | | |
| (Schofield) | <u>thru</u> | | | <u>filed in</u> | | |
| | 12/31/2018 | | | Docket No. | | |
| | | | | 2017-0213 on | | |
| | | | | 12/21/2018. | | |
| MPIR | 1/1/2019 | \$630,624 | \$10,250 | Schedule B1 | | |
| (Schofield) | thru | 1007021 | 1 = 0 / 200 | filed in | | |
| (PCHOTTETA) | 5/31/2019 | | | Transmittal | | |
| | 2/31/2019 | | | | | |
| | | | | No. 19-01 on | | |
| | | | | 2/7/2019. | | |
| <u>Annual</u> | 6/1/2019 | <u>\$639,699</u> | \$ 9, 075 | Schedule B1 | | Deleted: 63 |
| Decoupling | (current) | | | (Scenario 2) | | Deleted: 9, |
| Filing | | | | filed in | | |
| | | | | Transmittal | | |
| | | | | No. 19-01 on | | |
| | | | | 5/28/2019. | | Deleted: 21 |
| | | | 1 | J/20/2017. | I | DCICCCOI 21 |

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HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter Dated May 28, 2019.

SHEET NO. 98
Effective January 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION

Introduction

This Performance Incentive Mechanism ("PIM") Provision provides for the determination of a PIM Financial Incentive for each approved PIM for each Evaluation Period, based on Measured Performance compared to an established Performance Target for each PIM, as specified below.

The sum of the PIM Financial Incentives determined for all PIMs for the Evaluation Period will be the Performance Incentive Adjustment, which will be applied as an adjustment to the effective Target Revenue and will be recovered from or credited to customers through the RBA Rate Adjustment, as defined by and in accordance with the terms of the Revenue Balancing Account ("RBA") Provision.

Annual PIM Provision Transmittal

On or before March 31 of the year following an Evaluation Period, the Company shall file with the Commission, the Consumer Advocate, and each party to the Company's most recent rate case proceeding, a transmittal documenting the Measured Performance and calculation of the PIM Financial Incentives and Performance Incentive Adjustment for the Evaluation Period. Complete, indexed schedules, workpapers and electronic files supporting the transmittal shall be provided with the transmittal. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, other rate case parties, and other interested persons that may propose any adjustments necessary to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

The review of the annual PIM Provision transmittal will be conducted concurrent with and in conjunction with the annual RBA Review Transmittal. The Performance Incentive Adjustment will be determined annually based on the PIM Provision transmittal and, after review and subject to explicit approval by the Commission, will become effective on June 1 of the year following the Evaluation Period, concurrent and in conjunction with determination of Target Revenues and the RBA Rate Adjustment in accordance with the RBA Provision. Any approved Performance Incentive Adjustment will be applied as monthly adjustments to Target Revenues for the twelve month period commencing June 1 of the year following the Evaluation Period in accordance with the Monthly Allocation Factors identified in the RBA Provision.

The Performance Targets, Deadbands and the amount of Maximum Financial Incentives used to determine the PIM Financial Incentive

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

SHEET NO. 98A Effective January 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

levels for each of the PIMs shall be re-determined upon issuance of an interim or final order in a general rate case for each Company and shall remain constant in interim periods, unless otherwise amended, as necessary, by order of the Commission.

In the event that Performance Targets, Deadbands or the amounts of Maximum Financial Incentives are updated or amended by order of the Commission during the Evaluation Period, the Performance Targets, Deadbands and the amounts of Maximum Financial Incentives used in determining the amount of PIM Financial Incentives shall be a prorated weighted average based on the number of days of the Evaluation Period each parameter was effective.

Any revenue adjustments approved in accordance with this PIM Provision shall be excluded from the determination of Earnings Sharing Credits provided for in the Rate Adjustment Mechanism Provision ("RAM Provision").

The Performance Incentive Adjustment, and any prior year Performance Incentive Adjustment, shall be recalculated for errors in prior calculations and for subsequent Commission orders that change the basis for prior calculations. The effect of such changes shall be implemented as described in the RBA Provision, except that, the Performance Target, Deadband and Maximum Financial Incentive amounts determined in this PIM Provision shall not be recalculated based on errors in the calculation of these parameters and shall remain as specified unless and until changed by order of the Commission.

Evaluation Period

The Evaluation Period is defined as the annual twelve month calendar year period ending December 31, over which Measured Performance is determined and compared to the established Performance Target for each PIM described below. The first Evaluation Period shall begin January 1, 2018.

PIM Financial Incentive Calculation

For each PIM below, a Performance Target is specified, developed based on historical performance data. A Deadband is specified for each Performance Target in order to provide a satisfactory range of performance within which no reward or penalty amount is assessed.

A Maximum Financial Incentive amount is specified for each PIM with separate identification of a Maximum Reward Amount and a Maximum Penalty Amount.

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

Superseding Sheet no. 98B Effective January 1, 2018

REVISED SHEET NO. 98B Effective September 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

Measured Performance for the Evaluation Period is compared to the Performance Target for each PIM. If the difference between Measured Performance and the Performance Target is less than or equal to the Deadband amount, no reward or penalty is awarded and the amount of the PIM Financial Incentive is zero. If the difference between Measured Performance and the Performance Target exceeds the Deadband amount, a reward or penalty ratio is calculated where the difference between Measured Performance and the Performance Target, less the Deadband amount, is the numerator and the Deadband amount is the denominator. This ratio is multiplied by either the Maximum Reward Amount or Maximum Penalty Amount, as applicable, to determine the PIM Financial Incentive for each PIM. The magnitude of the PIM Financial Incentive for each PIM shall not exceed 100% of the magnitude of the applicable Maximum Reward Amount or Maximum Penalty Amount established for each PIM.

Reliability Performance Incentive Mechanisms

There are two reliability PIMs: 1) System Average Interruption Frequency Index ("SAIFI"); and 2) System Average Interruption Duration Index ("SAIDI"). SAIFI is a measure of the average frequency of outages, defined as the annual total number of customer interruptions divided by the total number of customers served. SAIDI is a measure of the average duration of outage, defined as the sum of all customer interruption durations (in minutes) divided by the total number of customers served. The SAIFI and SAIDI Measured Performance and Performance Targets are determined using the IEEE Standard 1366 methodology.

For the Reliability Performance Incentive Mechanisms, the 2008-2017 record of historical performance data was used to establish the Performance Target and the Deadband. The Deadband was calculated as ± 1 standard deviation of the historical performance data. Accordingly, 100% of the penalty is achieved when Measured Performance is equal to or greater than 2 standard deviations from the Performance Target.

SAIFI:

Performance Target: 1.103 interruptions per customer during the one-year Evaluation Period

Deadband: ± 0.088 interruptions (1 Standard Deviation)

HAWAIIAN ELECTRIC COMPANY, INC

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.

Superseding Sheet No. 98C Effective January 1, 2018

REVISED SHEET NO. 98C Effective September 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

Range for no penalty: 1.015 interruptions to 1.191 interruptions per customer (± 1 Standard Deviation from Target)

Rewards: Not Applicable

Penalties for greater than 1.191 interruptions per customer

Maximum Reward Amount: Not Applicable Maximum Penalty Amount: \$2,276,417.

The Maximum Penalty Amount was determined to be equal to 0.20% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

SAIDI:

Target: 99.23 minutes per outage

Deadband: ± 8.96 minutes (1 Standard Deviation)

Range for no penalty: 90.27 minutes to 108.19 minutes per outage (± 1 Standard Deviation from Target)

Rewards: Not Applicable

Penalties for greater than 108.19 minutes per outage

Maximum Reward Amount: Not Applicable Maximum Penalty Amount: \$2,276,417.

The Maximum Penalty Amount was determined to be equal to 0.20% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

Call Center Performance Incentive Mechanism

The Call Center Performance PIM measures the performance of the utility call center in terms of the percentage of calls answered within thirty (30) seconds. The calculation of the call center performance shall exclude blocked calls from the denominator.

The Performance Target for the Call Center Performance Incentive Mechanism was calculated based on the average of quarterly data from Quarter 3 of 2016 to Quarter 2 of 2018.

HAWAIIAN ELECTRIC COMPANY, INC

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.

Superseding Sheet No. 98D REVISED SHEET NO. 98D Effective September 1, 2018 Effective June 1, 2019

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

Deleted: January

Deleted: September 1, 2018

Call Center Performance:

Performance Target: 80.10% of calls answered within 30 seconds

Deadband: +/- 3.00% of calls answered within 30 seconds

Range for no reward or penalty: 77.10 % of calls answered to 83.10% of calls answered.

Rewards apply for greater than 83.10 % of calls answered Penalties apply for less than 77.10 % of calls answered

Maximum Reward Amount: \$910,567. Maximum Penalty Amount: \$910,567.

The magnitude of the Maximum Reward Amount and Maximum Penalty Amount were determined to be equal to 0.08% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

Additional PIMs:

The Commission may order the establishment of one or more PIMs, and the targets, deadbands, rewards, penalties, and allocations for that PIM, as applicable, shall be implemented as specified in the Commission's order that approved the applicable PIM, and the applicable PIM Financial Incentive shall be included in the Performance Incentive Adjustment.

Commission's Authority

The Commission may suspend any or all parts of this PIM Provision. Such suspension shall remain in place until removed by Commission order.

> Deleted: Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.¶

HAWAIIAN ELECTRIC COMPANY, INC

Transmittal Letter dated May 28, 2019.

SHEET NO. 98E Effective September 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

<u>Historical Reference</u>

| PIM: | Effective | Performance | Deadband: | Maximum | Maximum |
|--------|-----------|----------------|-----------|--------------------|--------------------|
| | Period: | Target: | | Reward: | Penalty: |
| | | | | | |
| SAIFI | 1/1/2018 | 1.116 | +/- 0.090 | N/A | \$2,039,094 |
| | thru | interruptions | | | |
| | 2/15/2018 | per customer | | | |
| SAIFI | 2/16/2018 | 1.116 | +/- 0.090 | N/A | \$2,260,799 |
| | thru | interruptions | | | |
| | 4/12/2018 | per customer | | | |
| SAIFI | 4/13/2018 | 1.116 | +/- 0.090 | N/A | \$2,276,417 |
| | thru | interruptions | | | |
| | 8/31/2018 | per customer | | | |
| | | | | | |
| SAIDI | 1/1/2018 | 99.03 minutes | +/- 9.07 | N/A | \$2,039,094 |
| | thru | Per outage | | | |
| | 2/15/2018 | | | | |
| SAIDI | 2/16/2018 | 99.03 minutes | +/- 9.07 | N/A | \$2,260,799 |
| | thru | Per outage | | | |
| | 4/12/2018 | | | | |
| SAIDI | 4/13/2018 | 99.03 minutes | +/- 9.07 | N/A | \$2,276,417 |
| | thru | Per outage | | | |
| | 8/31/2018 | | | | |
| | | | | | |
| Call | 1/1/2018 | 79.07% of | +/- 3.00% | \$815,638 | \$815 , 638 |
| Center | thru | calls answered | | | |
| | 2/15/2018 | within 30 sec. | | | |
| Call | 2/16/2018 | 79.46% of | +/- 3.00% | \$904,320 | \$904,320 |
| Center | thru | calls answered | | | |
| | 4/12/2018 | within 30 sec. | | | |
| Call | 4/13/2018 | 79.56% of | +/- 3.00% | \$910 , 567 | \$910 , 567 |
| Center | thru | calls answered | | | |
| | 8/31/2018 | within 30 sec. | | | |

HAWAIIAN ELECTRIC COMPANY, INC

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.

Attachment 2 – List of Schedules and Workpapers

| Schedule A (REVISED) | HECO-WP-A-001 |
|-----------------------|----------------|
| Schedule A1 (REVISED) | HECO-WP-B-001 |
| Schedule B (REVISED) | HECO-WP-C-001 |
| Schedule B1 (REVISED) | HECO-WP-C-002 |
| Schedule B2 | HECO-WP-C-003 |
| Schedule C | HECO-WP-D1-001 |
| Schedule C1 | HECO-WP-D2-001 |
| Schedule C2 | HECO-WP-D2-002 |
| Schedule D (REVISED) | HECO-WP-D2-003 |
| Schedule D1 (REVISED) | HECO-WP-D2-004 |
| Schedule D2 | HECO-WP-D3-001 |
| Schedule D3 | HECO-WP-D4-001 |
| Schedule D4 | HECO-WP-D4-002 |
| Schedule D5 (REVISED) | HECO-WP-D4-003 |
| Schedule E (REVISED) | HECO-WP-E-001 |
| Schedule F (REVISED) | HECO-WP-F-001 |
| Schedule F1 | HECO-WP-F1-001 |
| Schedule F2 | HECO-WP-F1-002 |
| Schedule G | HECO-WP-F1-003 |
| Schedule H (REVISED) | HECO-WP-H-001 |
| Schedule I | HECO-WP-H-002 |
| Schedule J | HECO-WP-H-003 |
| Schedule K | HECO-WP-H-004 |
| Schedule L | HECO-WP-H-005 |
| Schedule L1 | HECO-WP-H-006 |
| Schedule M | HECO-WP-H-007 |
| Schedule N | HECO-WP-H-008 |
| | HECO-WP-H-009 |
| | HECO-WP-L1-001 |
| | HECO-WP-L1-002 |
| | HECO-WP-L1-003 |
| | HECO-WP-M-001 |
| | HECO-WP-M-002 |
| | HECO-WP-M-003 |
| | HECO-WP-M-004 |
| | HECO-WP-M-005 |
| | |

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK

<u>DETERMINATION OF 2019 REVENUE BALANCING ACCOUNT RATE ADJUSTMENT</u>

SCENARIO 1 - WEST LOCH PV PROJECT IN RAM REVENUE ADJUSTMENT / 25 KV EXCLUDED FROM 2018 SAIDI AND SAIFI PIM CALCULATIONS

| Line No | . Description (a) | Reference (b) | Amount (c) | 6/1/2019 Rate Amount (d) | | |
|---------|--|---------------------------|-----------------------------|--------------------------------|--------------------|-----------|
| | () | (6) | (c) | (u) | | |
| | RECONCILIATION OF RBA BALANCE: | | | | | |
| 1 | RBA Prior calendar year-end balance | Schedule B | \$ 37,331,443 | | | |
| 1a | OBF Program Implementation Cost Recovery - Year 1 of 2 | Schedule N | \$ 768,575 \$ 38,100,018 | | | |
| 2 | Revenue Tax Factor | Schedule C | 1.0975 | | | |
| 3 | Revenue for RBA Balance | | | \$ 41,814,770 | | |
| | RATE ADJUSTMENT MECHANISM "RAM" AMOUNT: | | | | | |
| 4 | Total RAM Revenue Adjustment Allowed (Note 2) | Schedule A1 | | \$ 22,938,101 | | |
| 5 | EARNINGS SHARING REVENUE CREDITS - 2019 ROE: | Schedule H | | \$ - | | |
| 6 | PERFORMANCE INCENTIVE MECHANISM REWARD (PENALTY) | Schedule M | | \$ 53,998 | | |
| 7 | 2017 TEST YEAR RATE CASE FINAL D&O REFUND | Note (3) | | \$ (48,000) | | |
| 8 | PUC-ORDERED MAJOR OR BASELINE CAPITAL PROJECTS CREDITS | Schedule I | | \$ - | | |
| | | | | | | |
| 9 | TOTAL RBA REVENUE ADJUSTMENT | Sum Col. (d) | | \$ 64,758,869 | | |
| 10 | GWH SALES VOLUME ESTIMATE JUNE 2019 - MAY 2020 | HECO-WP-A-001 | | 6,489.900 | 6/1/2010 | |
| 11 | RBA RATE ADJUSTMENT - cents per kWh | Note (1) | | 0.9978 | 6/1/2018 1.0350 | (0.0372) |
| 12 | MONTHLY BILL IMPACT @ 600 KWH | | | \$ 5.99 | \$ 6.21 | \$ (0.22) |
| | MONTHLY BILL IMPACT @ 500 KWH | | | \$ 4.99 | \$ 5.18 | \$ (0.19) |
| | Note (1): 2019 RBA Rate Adjustment Breakdown | C-1 (4) | Rate Adjustment | Percentage | | |
| | RBA Balance | Col. (d) \$ 41,814,770 | 0.64430530 | Share 64.5700% | | |
| | RAM Amount | \$ 22,938,101 | 0.35344306 | 35.4208% | | |
| | Earnings Sharing Revenue Credits | \$ - | 0.00000000 | 0.0000% | | |
| | Performance Incentive Mechanism Reward (Penalty) | \$ 53,998 | 0.00083204 | 0.0834% | | |
| | 2017 Test Year Rate Case Final D&O Refund | \$ (48,000) | -0.00073961 | -0.0741% | | |
| | Major or Baseline Capital Projects Credits | \$ - | 0.00000000 | 0.0000% | | |
| | | \$ 64,758,869 | 0.99784078 | 100.0000% | | |

Note (2): Total RAM Revenue Adjustment Allowed is the sum of the RAM Cap + Exceptional and Other Projects. See Order No. 32735, filed March 31, 2015, paragraph 107, page 94, which states that the Total RAM Revenue Adjustment is to be comprised of the RAM Cap plus recovery of Exceptional And Other Matters.

Note (3): Docket No. 2016-0328 - Hawaiian Electric 2017 Test Year Rate Case Hawaiian Electric Proposed PIM Tariff Revisions and Refund Calculation, Exhibit 4, filed July 23, 2018, and approved by the Commission in Order No. 35661, filed August 30, 2018.

SCHEDULE A1 (REVISED 05-28-19) (REVISED 05-21-19) PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TOTAL RAM REVENUE ADJUSTMENT ALLOWED

| Line No. | Description | Reference | | Amount |
|----------|--|----------------------------|------|----------------------------|
| | (a) | (b) | | (c) |
| | RAM REVENUE ADJUSTMENT DETERMINED ACC PROCEDURES | CORDING TO EXISTING TA | RIFI | S AND |
| 1 | O&M RAM | Schedule C | \$ | 8,622,195 |
| 2 | Rate Base RAM - Return on Investment | Schedule D | \$ | 11,376,190 |
| 3 | Depreciation & Amortization RAM Expense | Schedule E | \$ | 2,939,716 |
| 4 | Total RAM Revenue Adjustment | | \$ | 22,938,101 |
| | RAM REVENUE ADJUSTMENT CAP | | | |
| 5 | RAM Cap for 2019 RAM Revenue Adjustment | Schedule J | \$ | 27,945,687 |
| 6 | Plus: Exceptional and Other Matters | Schedule K | \$ | - |
| 7 | 2019 Cap - Total RAM Revenue Adjustment (Note 2) | | \$ | 27,945,687 |
| 8 | Total RAM Revenue Adjustment Allowed (Note 1) | Lesser of Line 4 or Line 7 | \$ | 22,938,101 To Sch A |

Note 1 RAM Revenue Adjustment Allowed:

See Order No. 32735, filed March 31, 2015, paragraph 106, page 94:

"The RAM Revenue Adjustment to be applied to determine effective Target Revenues will be the **lesser of** (a) the RAM Revenue Adjustment determined according to existing tariffs and procedures or (b) a RAM Revenue Adjustment Cap ("RAM Cap) to be calculated as specified."

Note 2 Total RAM Cap:

See Order No. 32735, filed March 31, 2015, paragraph 110, page 96:

"The RAM Cap will apply to the entire RAM Revenue Adjustment including the O&M RAM, Rate Base RAM (including Major Capital Projects and Baseline Projects), and the Depreciation and Amortization RAM."

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK SUMMARY OF ACCUMULATED REVENUE BALANCING ACCOUNT

| | | | | | | | | | | T | ax-effected | | | | |
|--------|---------------------|-------------------|---------|----------|-------------------|------|--------------|----|---------------|-----|-----------------|-------|-----------|----------|--------|
| | | | | | Recorded | | | Ac | djustment for | | Balance | | | | |
| | | Beginning | Ta | arget | Adjusted | V | ariance to | | prior year | | Subject to | | terest at | End | ing |
| Line N | | Balance | | venues | Revenue | | RBA | R | BA accrual | | Interest | 1.7 | 5%/year | Bala | |
| | (a) | (b) | (| (c) | (d) | | (e) | | (f) | | (g) | | (h) | (i |) |
| | Monthly RBA Balance | e and Activity (N | Monthly | PUC Rpt) | | | | | | | | | | | |
| | • | \$ 18,013,624 | , | • / | | | | | | | | | | | |
| 1 2 | 2017 December | \$ 46,306,327 | \$ 49, | ,915,326 | \$ 43,730,598 | \$ | 6,184,728 | \$ | (3,302,057) | | 29,169,047 | \$ | 42,538 | \$ 49,23 | 31,536 |
| 3 | 2018 January | \$ 49,231,536 | \$ 48. | ,948,443 | \$ 43,871,232 | \$ | 5,077,211 | \$ | (3,369,650) | \$ | 37,188,347 | \$ | 54,233 | \$ 50,99 | 93,330 |
| 4 | February | \$ 50,993,330 | | ,953,154 | \$ 40,430,219 | | 5,522,935 | \$ | (4,185,853) | \$ | 38,358,939 | \$ | 55,940 | \$ 52,38 | |
| 5 | March | \$ 52,386,352 | \$ 51. | ,603,222 | \$ 46,365,780 | | 5,237,442 | \$ | (3,345,112) | \$ | 39,599,394 | \$ | 57,749 | \$ 54,33 | |
| 6 | April | \$ 54,336,431 | | ,061,587 | \$ 45,638,864 | | 3,422,723 | \$ | (3,430,466) | \$ | 40,341,925 | \$ | 58,832 | \$ 54,38 | |
| 7 | May | \$ 54,387,520 | \$ 50, | ,396,658 | \$ 43,802,261 | \$ | 6,594,397 | \$ | (3,440,553) | \$ | 41,553,464 | \$ | 60,599 | \$ 57,60 | 1,782 |
| 8 | June | \$ 57,601,782 | \$ 49. | ,434,694 | \$ 46,747,403 | \$ | 2,687,291 | \$ | (4,129,862) | \$ | 42,233,769 | \$ | 61,591 | \$ 56,22 | 20,802 |
| 9 | July | \$ 56,220,802 | \$ 53, | ,817,091 | \$ 50,144,604 | \$ | 3,672,487 | \$ | (4,451,628) | \$ | 41,454,689 | \$ | 60,455 | \$ 55,50 | 02,116 |
| 10 | August | \$ 55,502,116 | | ,301,701 | \$ 50,148,289 | \$ | 5,153,412 | \$ | (4,546,694) | \$ | 41,435,565 | \$ | 60,427 | \$ 56,10 | 59,261 |
| 11 | September | \$ 56,169,261 | \$ 53, | ,507,798 | \$ 54,077,963 | \$ | (570,165) | \$ | (4,315,858) | \$ | 39,891,740 | \$ | 58,175 | \$ 51,34 | 11,413 |
| 12 | October | \$ 51,341,413 | \$ 54, | ,683,113 | \$ 56,214,832 | \$ | (1,531,719) | \$ | (4,543,142) | \$ | 35,865,707 | \$ | 52,304 | \$ 45,3 | 18,856 |
| 13 | November | \$ 45,318,856 | \$ 51, | ,095,307 | \$ 51,711,892 | \$ | (616,585) | \$ | (4,111,538) | \$ | 31,893,935 | \$ | 46,512 | \$ 40,63 | 37,245 |
| 14 | Oct/Nov True-U | Jр | \$ | 305,574 | | \$ | 305,574 | | | | | \$ | 453 | \$ 40,94 | 13,272 |
| 15 | December | \$ 40,943,272 | \$ 51, | ,366,986 | \$ 51,070,061 | \$ | 296,925 | \$ | (3,951,109) | \$ | 29,043,764 | \$ | 42,355 | \$ 37,33 | 31,443 |
| 16 | | | \$ 615, | ,475,328 | \$ 580,223,400 | \$ 3 | 35,251,928 | \$ | (47,821,465) | | | \$ | 669,625 | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | |
| 19 | 2019 January | \$ - | \$ 51, | ,648,125 | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 20 | February | \$ - | \$ 47, | ,864,379 | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 21 | March | \$ - | \$ 51, | ,080,563 | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 22 | April | \$ - | \$ 50, | ,323,814 | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 23 | May | \$ - | \$ 52, | ,972,435 | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 24 | OBF Recovery | \$ 1,537,150 | | | | | | | | | | | | \$ | - |
| 24a | June | \$ - | \$ 51, | ,623,710 | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 25 | July | \$ - | \$ 55, | ,653,814 | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 26 | August | \$ - | \$ 57, | ,189,092 | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 27 | September | \$ - | | ,333,965 | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 28 | October | \$ - | \$ 56, | ,549,393 | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 29 | November | \$ - | \$ 52, | ,839,139 | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 30 | December | \$ - | \$ 52, | ,967,078 | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 31 | | | | | | | | | | | | | | | |
| | Sources of Data: | | Scl | h. B1 | Sch B2 | C | cols (c)-(d) | | Note (1) | Col | ((b)+((e)+(f))/ | 2)/(k |) | Cols (l |)+(e)+ |
| | | | No | ote (3) | | | | | | | (Note 2) | | | (f)+ | (h) |
| | | | | | | | | | | | | | | | |

Composite Federal & State Income Tax Rate 25.75% (j)
Income Tax Factor (1 / 1-tax rate) 1.346801347 (k)

Note (1):

Amounts represent recovery of prior years' RBA balance through the RBA rate adjustment effective June 1, 2017 for the period June 2017 through May 2018 and June 1, 2018 for the period June 2018 through May 2019.

Note (2):

In May 2018, the Company identified an inadvertent transposition error in the DSM adjustment (\$67,965) used to derive Recorded Adjusted Revenues. May 2018 Recorded Adjusted Revenues includes a true-up of -\$135,930 (-\$123,853 net of revenue taxes) to properly state the RBA Balance as of May 2018. The May 2018 balance includes an adjustment of -\$181 related to interest resulting from this correction.

Note (3):

In December 2018, the Company recorded a RBA Target true-up adjustment resulting from the Schofield Generating Station MPIR Order No. 35953, issued 12/14/18 in Docket No. 2017-0213, effective October 1, 2018. The RBA balance includes an adjustment of \$306,027 related to the incremental Target Revenues (\$305,574) and related interest (\$453) to properly state the RBA balance as of December 2018.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

| Line No. | Description | Reference | | 2 | Oocket No. 2010-0080 Amounts | | Docket No. 2016-0328 Amounts | | Docket No. 2016-0328 Amounts | 2 | Docket No. 2016-0328 Amounts | 2 | Docket No. 2016-0328 Amounts | 2 | ocket No. 016-0328 Amounts |
|-------------|---|-----------------------------------|------------------|-----------|------------------------------------|----------|------------------------------------|-----------|------------------------------------|-----------|------------------------------------|-----------|------------------------------------|-----------|----------------------------------|
| | (a) | (b) | | | (c) | | (d) | | (e) | | (f) | | (g) | | (h) |
| 1 | Last Rate Case Annual Electric Revenue at Approved Rate | Note (3), (5), (5a) | \$000s | \$ | 1,765,954 | \$ | 1,581,445 | \$ | 1,529,709 | \$ | 1,529,709 | \$ | 1,529,709 | \$ | 1,529,709 |
| | Less: Holdback of Interim Revenues | Note (3) | \$000s | | | \$ | | \$ | - | \$ | - | \$ | - | \$ | - |
| | Less: Customer Benefit Adjustment | Note (3) | \$000s | | | \$ | | \$ | - | \$ | - | \$ | - | \$ | - |
| 2 | Less: Fuel Expense | Note (3), (5), (5a) | \$000s | \$ | (658,172) | \$ | | \$ | (327,609) | \$ | (327,609) | \$ | (327,609) | \$ | (327,60 |
| 3 | Purchased Power Expense | Note (3), (5), (5a) | \$000s | \$ | (438,707) | \$ | | \$ | (466,211) | \$ | (466,211) | \$ | (466,211) | \$ | (466,21 |
| 4 | Revenue Taxes on Line 1 to 1b (8.885% statutory rat | | \$000s | \$ | (156,905) | \$ | | \$ | (135,915) | \$ | (135,915) | \$ | (135,915) | \$ | (135,91 |
| | Last Rate Order Target Annual Revenues | Sum Lines 14 | \$000s | \$ | 512,170 | \$ | | \$ | 599,974 | \$ | 599,974 | \$ | 599,974 | \$ | 599,97 |
| 6 | Authorized RAM Revenues | Note (1a) | \$000s | \$ | 101,131 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 7 | Less: Revenue Taxes on Line 6 at 8.885% | 1: 6:7 | \$000s | \$ | (8,986) | \$ | | <u>\$</u> | | \$ | - | \$ | | <u>\$</u> | - |
| 8 | Net RAM Adjustment - Test Year +6 | Lines 6 + 7 | \$000s | \$ | 92,146 | \$ | - | - | - | \$ | - | \$ | - | - | |
| 9 | Authorized RAM Revenues | Note (7) | \$000s | \$ | - | \$ | - | \$ | - | \$ | 13,828 | \$ | 13,828 | \$ | 13,828 |
| 10 11 | Less: Revenue Taxes on Line 9 at 8.885% Net RAM Adjustment - Test Year +1 | Lines 9 + 10 | \$000s \$000s | \$ | | \$ | | \$ | | \$ | 12,599 | <u>\$</u> | (1,229) 12,599 | <u>\$</u> | (1,229 |
| | • | | | - | - | | | - | - | | 12,399 | | 12,399 | | 12,39 |
| 12 13 | Authorized RAM Revenues Less: Revenue Taxes on Line 12 at 8.885% | Sch A, Line 4 | \$000s \$000s | \$ | - | \$ \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 14 | Net RAM Adjustment - Test Year +2 | Lines 12 + 13 | \$000s | <u>\$</u> | | \$ | | <u>\$</u> | | <u>\$</u> | | <u>\$</u> | | \$ | |
| | - | | | - | - | | - | - | - | Ψ | - | - | - | | 0.56 |
| 15 16 | Authorized MPIR Revenues Less: Revenue Taxes on Line 15 at 8.885% | Schedule L | \$000s \$000s | \$ \$ | - | \$ \$ | - | \$ \$ | - | \$ \$ | - | \$ \$ | 6,600 (586) | \$ \$ | 8,561 (761 |
| 17 | Net MPIR Adjustment | Lines 15 + 16 | \$000s | \$ | | \$ | | \$ | | \$ | | \$ | 6,014 | \$ | 7,800 |
| | Less: EARNINGS SHARING REVENUE CREDITS | | \$000s | \$ | (16) | \$ | | - | (16) | \$ | | \$ | 0,011 | \$ | 7,00 |
| 18 | Less: EARNINGS SHARING REVENUE CREDITS Less: Revenue Taxes on Line 18 at 8.885% | Note (1a) | \$000s \$000s | \$ | (16) | \$ | (16) | \$ | (16) | \$ | - | \$ | - | \$ | - |
| 20 | Net Earnings Sharing Revenue Credits | Lines 18 + 19 | \$000s | \$ | (14) | \$ | (14) | \$ | (14) | \$ | | \$ | | \$ | |
| | Less: PERFORMANCE INCENTIVE MECHANISM | Sch A, Line 6 | \$000s | \$ | () | \$ | | s | () | \$ | | \$ | | \$ | |
| 22 | Less: PERFORMANCE INCENTIVE MECHANISM Less: Revenue Taxes on Line 24 at 8.885% | oui A, Liiic 0 | \$000s \$000s | \$ | | \$ | | \$ | - | \$ | | \$ | - | \$ | - |
| 23 | Net Performance Incentive Mechanism | Lines 21 + 2 | \$000s | \$ | | \$ | | \$ | | \$ | | \$ | - | \$ | - |
| 24 | Less: 2017 TEST YEAR FINAL D&O REFUND | Sch A. Line 8 | \$000s | \$ | _ | \$ | _ | S | _ | \$ | _ | \$ | _ | S | _ |
| 25 | Less: Revenue Taxes on Line 27 at 8.885% | Dell'14, Ellie 0 | \$000s | \$ | _ | \$ | _ | \$ | _ | \$ | _ | \$ | _ | s | _ |
| 26 | Net 2017 Test Year Final D&O Refund | Lines 24 + 25 | \$000s | \$ | - | \$ | - | \$ | _ | \$ | | \$ | - | \$ | - |
| | | | | | | | | | | | | | | | |
| 27 | Add: OBF PROGRAM IMPLEMENTATION COSTS | Sch A, Line 1a * 1.0975 | \$000s | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | _ |
| 28 | Less: Revenue Taxes on Line 21 at 8.885% | | \$000s | \$ | | \$ | | \$ | | \$ | | \$ | | \$ | - |
| 29 | Net OBF Program Implementation Costs | Lines 27 + 28 | \$000s | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| | PUC-ORDERED MAJOR OR BASELINE | | | | | | | | | | | | | | |
| 30 | CAPITAL CREDITS: | Note (1a) | \$000s | \$ | - | \$ | - | \$ | | \$ | - | \$ | - | \$ | - |
| 2.1 | T (I A I T) D | | | | | | | | | | | | | | |
| 31 | Total Annual Target Revenues June 1, 2017 Annualized Revenues | | | | | | | | | | | | | | |
| 32 | w/RAM Increase | Col (c), lines (5+8+20+30) | \$000s | \$ | 604,302 | | | | | | | | | | |
| | February 16, 2018 Annualized Revenues | cor (e), inies (5 · 5 · 20 · 50) | φ000B | | 001,502 | | | | | | | | | | |
| 33 | w/Interim Increase | Col (d), lines (5+8+20+30) | \$000s | | | \$ | 637,077 | | | | | | | | |
| | April 13, 2018 Annualized Revenues | Col (e), lines | | | | | | | | | | | | | |
| 34 | w/2nd Interim Increase | (5+11+20+30) | \$000s | | | | | \$ | 599,960 | | | | | | |
| | June 1, 2018 Annualized Revenues | Col (f), lines | #000 | | | | | | | | (10.574 | | | | |
| 35 | w/RAM Increase | (5+11+20+30) | \$000s | | | | | | | \$ | 612,574 | | 610.507 | | |
| 36 | June 1, 2018 Annualized Revenues w/RAM Increase & MPIR accrued 7/1/18 | Col (g), lines (5+11+17+20+30) | \$000s | | | | | | | | | \$ | 618,587 | | |
| 37 | June 1, 2018 Annualized Revenues | Col (h), lines | \$000s | | | | | | | | | | | \$ | 620,374 |
| 51 | w/RAM Increase & MPIR accrued 10/1/18 | (5+11+17+20+30) | ф0003 | | | | | | | | | | | Ψ | 020,57 |
| 38 | June 1, 2018 Annualized Revenues | Col (i), lines | \$000s | | | | | | | | | | | | |
| | w/RAM Increase & MPIR accrued 1/1/19 | (5+11+17+20+30) | | | | | | | | | | | | | |
| 39 | June 1, 2019 Annualized Revenues | Col (j), lines (5+14+17 | \$000s | | | | | | | | | | | | |
| | w/RAM Increase & MPIR accrued 1/1/19 | +20+23+26+29+30) | | | 27 . (0) | | | | 37 . (6) | | | | 27 (0) | | |
| 40 | Distribution of Target Revenues by Month: | Note (1) | Note (2) | | Note (4) 2018 | 1 | Note (4), (6) 2018 | | Note (6) 2018 | | 2018 | | Note (8) 2018 | 1 | Note (8a) 2018 |
| 41 | January | 8.10% | 8.19% | _ | \$48,948,443 | _ | 2010 | _ | 4010 | _ | 2010 | _ | 2010 | | 2010 |
| 42 | February | 7.26% | 7.59% | | \$23,503,022 | | \$22,450,132 | | | | | | | | |
| 43 | March | 8.10% | 8.10% | | /- = | | \$51,603,222 | | | | | | | | |
| 44 | April | 7.84% | 7.98% | | | | \$20,335,492 | | \$28,726,095 | | | | | | |
| 45 | May | 8.44% | 8.40% | | | | | | \$50,396,658 | | # 40 4 2 : : | | | | |
| 46 | June | 8.47% | 8.07% | | | | | | | | \$49,434,694 | | es 2 017 000 | | |
| 47 48 | July | 8.77% 9.04% | 8.70% 8.94% | | | | | | | | | | \$53,817,090 \$55,301,700 | | |
| 48 | August September | 8.68% | 8.65% | | | | | | | | | | \$53,501,700 | | |
| 50 | October | 8.78% | 8.84% | | | | | | | | | | ,1,171 | 9 | \$54,841,06 |
| 51 | November | 8.26% | 8.26% | | | | | | | | | | | | 51,242,89 |
| 52 | December | 8.26% | 8.28% | _ | | _ | | | | | | | | | \$51,366,96 |
| 53 | Total Distributed Target Revenues | 100.00% | 100.00% | | \$72,451,465 | | \$94,388,846 | | \$79,122,753 | | \$49,434,694 | \$ | 162,626,587 | \$1 | 157,450,92 |
| | Enterton | | | | | | | | | | | | | | |
| | Footnotes: 1 RBA Tariff Revised July 26, 2011 to reflect 2011 test year | | | | | | | | | | | | | | |
| | la Transmittal 17-02 filed March 31, 2017, establishing 201 | | 1. 2017 | | | | | | | | | | | | |
| | 2 RBA Tariff Effective February 16, 2018 to reflect 2017 te | | -, 20.7. | | | | | | | | | | | | |
| | 3 Test Year 2017 Interim Increase provided for in Interim I | | ed December | 15, 2 | 017 in Docket | No. 2 | 2016-0328: | | | | | | \$35,971 | | \$000s |
| | 4 For the month of the initial implementation (Feb 2018), a | | | | | | | al nu | imber of days: | | | | 0.46429 | | |
| | 5 Test Year 2017 2nd Interim Increase provided for in Ordo | | | | | | | | | | | | -\$603 | | \$000s |
| | 5a Reduction for Tax Act Implementation Lag (March 2018 | Settlement Tariff Sheets Attack | hment 3 file | d Mai | rch 16 2018 in | | ordance with Or | der N | No. 35335). | | | | -\$2,143 | | \$000s |

- 5a Reduction for Tax Act Implementation Lag (March 2018 Settlement Tariff Sheets, Attachment 3, filed March 16, 2018, in accordance with Order No. 35335):
 6 For the month of the initial implementation (April 2018), adjust the monthly allocation by the number of effective days in the month over the total number of days:
 7 Transmittal 18-01 filed May 29, 2018, establishing 2018 target revenue effective June 1, 2018.
 8 MPIR Revenue accural starting effective July 1, 2018 approved in Order No. 35647, issued August 15, 2018 in Docket No. 2017-0213. Excerpt filed at HECO-WP-L1-003.
 8 MPIR Revenue accural starting October 1, 2018 approved in Order No. 35953, issued December 14, 2018 in Docket No. 2017-0213. Excerpt filed at HECO-WP-L1-003.
 8 MPIR Revenue accural starting January 1, 2019 filed in Transmittal 19-01, filed February 7, 2019. Excerpt filed at HECO-WP-L1-003.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

| Line No. | Description | Reference | | 2 | Oocket No. 016-0328 Amounts | 2 | Oocket No. 2016-0328 Amounts | 2 | Oocket No. 016-0328 Amounts |
|-------------|---|---|------------------|----------|-----------------------------------|----------|------------------------------------|----------|-----------------------------------|
| | (a) | (b) | | | (i) | | (j) | | (k) |
| 1 | Last Rate Case Annual Electric Revenue at Approved Rate | Note (3), (5), (5a) | \$000s | \$ | 1,529,709 | \$ | 1,529,709 | \$ | 1,529,70 |
| la | Less: Holdback of Interim Revenues | Note (3) | \$000s | \$ | - | \$ | - | \$ | 1,525,70 |
| 1b | Less: Customer Benefit Adjustment | Note (3) | \$000s | \$ | - | \$ | - | \$ | - |
| 2 | Less: Fuel Expense | Note (3), (5), (5a) | \$000s | s | (327,609) | \$ | (327,609) | \$ | (327,60 |
| 3 | Purchased Power Expense | Note (3), (5), (5a) | \$000s | \$ | (466,211) | \$ | (466,211) | \$ | (466,21 |
| 4 | Revenue Taxes on Line 1 to 1b (8.885% statutory rate | | \$000s | \$ | (135,915) | \$ | (135,915) | \$ | (135,91 |
| 5 | Last Rate Order Target Annual Revenues | Sum Lines 14 | \$000s | \$ | 599,974 | \$ | 599,974 | \$ | 599,97 |
| 6 | Authorized RAM Revenues | Note (1a) | \$000s | \$ | _ | \$ | - | \$ | _ |
| 7 | Less: Revenue Taxes on Line 6 at 8.885% | | \$000s | \$ | - | \$ | | \$ | _ |
| 8 | Net RAM Adjustment - Test Year +6 | Lines 6 + 7 | \$000s | \$ | - | \$ | - | \$ | - |
| 9 | Authorized RAM Revenues | Note (7) | \$000s | \$ | 13,828 | \$ | - | \$ | - |
| 10 | Less: Revenue Taxes on Line 9 at 8.885% | | \$000s | \$ | (1,229) | \$ | - | \$ | - |
| 11 | Net RAM Adjustment - Test Year +1 | Lines 9 + 10 | \$000s | \$ | 12,599 | \$ | - | \$ | - |
| 12 | Authorized RAM Revenues | Sch A, Line 4 | \$000s | \$ | - | \$ | 22,938 | \$ | 22,93 |
| 13 | Less: Revenue Taxes on Line 12 at 8.885% | | \$000s | \$ | | \$ | (2,038) | \$ | (2,03 |
| 14 | Net RAM Adjustment - Test Year +2 | Lines 12 + 13 | \$000s | \$ | - | \$ | 20,900 | \$ | 20,90 |
| 15 16 | Authorized MPIR Revenues | Schedule L | \$000s | \$ | 19,811 | \$ | 19,811 | \$ | 19,81 |
| 17 | Less: Revenue Taxes on Line 15 at 8.885% Net MPIR Adjustment | Lines 15 + 16 | \$000s \$000s | \$ | 18,051 | \$ | 18,051 | \$ | (1,76 |
| | - | | | | 10,031 | | 10,031 | | |
| 18 19 | Less: EARNINGS SHARING REVENUE CREDITS Less: Revenue Taxes on Line 18 at 8.885% | Note (1a) | \$000s \$000s | \$ \$ | - | \$ \$ | - | \$ \$ | - |
| 20 | Net Earnings Sharing Revenue Credits | Lines 18 + 19 | \$000s | \$ | <u>-</u> | \$ | | \$ | |
| 21 | Less: PERFORMANCE INCENTIVE MECHANISM | Sch A, Line 6 | \$000s | \$ | | \$ | 54 | \$ | 5 |
| 22 | Less: Revenue Taxes on Line 24 at 8.885% | Scii A, Line 0 | \$000s | \$ | | \$ | (5) | \$ | (|
| 23 | Net Performance Incentive Mechanism | Lines 21 + 2 | \$000s | \$ | | \$ | 49 | \$ | 4 |
| 24 | Less: 2017 TEST YEAR FINAL D&O REFUND | Sch A, Line 8 | \$000s | \$ | _ | \$ | (48) | \$ | (4 |
| 25 | Less: Revenue Taxes on Line 27 at 8.885% | Den 11, Eme o | \$000s | \$ | - | \$ | 4 | \$ | (. |
| 26 | Net 2017 Test Year Final D&O Refund | Lines 24 + 25 | \$000s | \$ | - | \$ | (44) | \$ | (4 |
| 27 | Add: OBF PROGRAM IMPLEMENTATION COSTS | Sch A, Line 1a * 1.0975 | \$000s | \$ | _ | \$ | 844 | \$ | 84 |
| 28 | Less: Revenue Taxes on Line 21 at 8.885% | | \$000s | \$ | - | \$ | (75) | \$ | (7 |
| 29 | Net OBF Program Implementation Costs | Lines 27 + 28 | \$000s | \$ | - | \$ | 769 | \$ | 76 |
| | PUC-ORDERED MAJOR OR BASELINE | | | | | | | | |
| 30 | CAPITAL CREDITS: | Note (1a) | \$000s | \$ | - | \$ | - | \$ | - |
| 31 | Total Annual Target Revenues June 1, 2017 Annualized Revenues | | | | | | | | |
| 32 | w/RAM Increase | Col (c), lines (5+8+20+30) | \$000s | | | | | | |
| 33 | | Col (d), lines (5+8+20+30) | \$000s | | | | | | |
| | April 13, 2018 Annualized Revenues | Col (e), lines | | | | | | | |
| 34 | w/2nd Interim Increase June 1, 2018 Annualized Revenues | (5+11+20+30) | \$000s | | | | | | |
| 35 | w/RAM Increase | Col (f), lines (5+11+20+30) | \$000s | | | | | | |
| 36 | June 1, 2018 Annualized Revenues | Col (g), lines | \$000s | | | | | | |
| 50 | w/RAM Increase & MPIR accrued 7/1/18 | (5+11+17+20+30) | ф0003 | | | | | | |
| 37 | June 1, 2018 Annualized Revenues | Col (h), lines | \$000s | | | | | | |
| | w/RAM Increase & MPIR accrued 10/1/18 | (5+11+17+20+30) | | | | | | | |
| 38 | June 1, 2018 Annualized Revenues | Col (i), lines | \$000s | \$ | 630,624 | | | | |
| 39 | w/RAM Increase & MPIR accrued 1/1/19 | (5+11+17+20+30) | ¢000 | | | 6 | (20, (00 | S | (20.00 |
| 39 | June 1, 2019 Annualized Revenues w/RAM Increase & MPIR accrued 1/1/19 | Col (j), lines (5+14+17 +20+23+26+29+30) | \$000s | | | ٥ | 639,699 | Þ | 639,69 |
| | | 120123120127130) | | 1 | Note (8b) | | Note (8b) | 1 | Note (8b) |
| 40 | Distribution of Target Revenues by Month: | Note (1) | Note (2) | | 2019 | | 2019 | | 2020 |
| 41 | January | 8.10% | 8.19% 7.59% | | \$51,648,125 | | | | \$52,391,3 |
| 42 43 | February March | 7.26% 8.10% | 7.59% 8.10% | | \$47,864,379 \$51,080,563 | | | | \$48,553,1 \$51,815,6 |
| 44 | April | 7.84% | 7.98% | | \$50,323,814 | | | | \$51,047,9 |
| 45 | May | 8.44% | 8.40% | | \$52,972,435 | | | | \$53,734,7 |
| 46 | June | 8.47% | 8.07% | | | | \$51,623,710 | | |
| 47 | July | 8.77% | 8.70% | | | | \$55,653,814 | | |
| 48 | August | 9.04% | 8.94% | | | | \$57,189,092 | | |
| 49 50 | September October | 8.68% | 8.65% | | | | \$55,333,965 | | |
| | October November | 8.78% 8.26% | 8.84% 8.26% | | | | \$56,549,393 \$52,839,139 | | |
| 51 | | | | | | | ツンム、ひょフ、エフブ | | |
| 51 52 | December | 8.26% | 8.28% | | | | \$52,967,078 | | |

HAWAIIAN ELECTRIC COMPANY DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RECORDED ADJUSTED REVENUES

| Line No. | Description | January 2018 | February 2018 | March 2018 | April 2018 | May 2018 | June 2018 | July 2018 | August 2018 | September 2018 | October 2018 | November 2018 | December 2018 | Total |
|---|---|------------------|---|--------------|--------------|--------------|--------------|--------------|--|---|--------------|--|--------------------|--------------------------|
| | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (1) | (m) | |
| | BILLED REVENUES: | | | | | | | | | | | | | |
| 1 | Current month's billed revenues (SAP014w) | 131,367,405 | 134,781,670 | 138,532,375 | 139,891,016 | 136,565,143 | 148,254,104 | 155,912,953 | 166,208,215 | 166,774,673 | 179,719,396 | 165,592,723 | 159,911,354 | 1,823,511,027 |
| 2 | Remove PBF revenues | (1,218,709) | (1,201,960) | (1,194,318) | (1,211,024) | (1,182,968) | (1,265,642) | (1,382,251) | (1,590,817) | (1,573,352) | (1,655,808) | (1,506,750) | (1,423,869) | (16,407,468) |
| 3 | Remove Solar Saver non-revenues | - | - | - | 58,286 | 67,403 | - | - | - | - | - | - | - | 125,689 |
| 4 | City & County traffic signal revenue adjustments | | - | (10,230) | - | - | (10,310) | - | - | (10,911) | - | - | (11,330) | (42,781) |
| 5 = sum 1-4 | BILLED REVENUES | 130,148,696 | 133,579,710 | 137,327,827 | 138,738,278 | 135,449,578 | 146,978,152 | 154,530,702 | 164,617,398 | 165,190,410 | 178,063,588 | 164,085,973 | 158,476,155 | 1,807,186,467 |
| | UNBILLED REVENUES | | | | | | | | | | | | | |
| 6 | Current month's unbilled revenues (Unbilled Sales and Revenue Est) | 78,387,084 | 70,879,493 | 70,665,761 | 70,377,168 | 76,196,920 | 80,293,995 | 90,404,928 | 92,787,255 | 95,015,547 | 90,754,173 | 87,978,477 | 88,120,287 | 991.861.088 |
| 7 | Reverse prior month's unbilled revenues (Unbilled Sales and Revenue Est) | (77,212,019) | (78,387,084) | (70,879,493) | (70,665,761) | (70,377,168) | (76,196,920) | (80,293,995) | (90,404,928) | (92,787,255) | (95,015,547) | (90,754,173) | (87,978,477) | (980,952,820) |
| = 6+7 | Unbilled revenues per Unbilled Sales and Revenue Estimate | 1,175,065 | (7,507,591) | (213,732) | (288,593) | 5,819,752 | 4,097,075 | 10,110,933 | 2,382,327 | 2,228,292 | (4,261,374) | (2,775,696) | 141,810 | 10.908.268 |
| | | -,, | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | (=,) | (===,===) | -,, | .,, | ,, | _,, | -,, | (.,=,) | (=,,,,,,,,,, | , | |
| 9 | Recovery of 12-31-16 RBA balance through RBA Rate Adjustment beginning 6-1-17 | (3,698,239) | (4,594,033) | (3,671,308) | (3,764,985) | (3,776,056) | | | | | | | | (19,504,621) HECO-WP-B |
| 10 | Recovery of 12-31-10 RBA balance through RBA Rate Adjustment beginning 6-1-18 | (3,070,237) | (4,574,055) | (5,071,500) | (3,704,703) | (3,770,030) | (4,532,582) | (4,885,725) | (4,990,061) | (4,736,715) | (4,986,163) | (4,512,471) | (4,336,398) | (32,980,115) HECO-WP-B |
| 10 | Accrual and reversal of ESM refund | 1.258 | 1,127 | 1,258 | 1,217 | 1,310 | | | (4,990,061) | (4,/30,/13) | (4,986,163) | (4,512,4/1) | | 6.170 |
| 12 | Accrual and reversal of ESW reland Accrual of Performance Incentive Mechanism | | | | | 1,510 | - | - | - | - | - | - | (531,871) | (531,871) |
| | Accrual of Performance Incentive Mechanism Accrual of Test Year Rate Case Refund | - | - | - | - | - | - | | - | - | - | - | (551,8/1) | |
| 13 | | 2 270 200 | 1 000 100 | 2.051.000 | 5 020 000 | (1.500.200) | (2.002.000) | (48,000) | 2 020 500 | (1.010.600) | 1 420 100 | 2 000 000 | 4 505 500 | (48,000) |
| 14 | Accrual of ECAC adjustment | 3,370,200 | 1,909,100 | 2,951,000 | 5,038,900 | (1,598,200) | (2,982,800) | 3,568,600 | 2,029,500 | (1,810,600) | 1,430,100 | 3,000,000 | 4,585,500 | 21,491,300 |
| 15 | Reversal of ECAC accrual | (361,600) | (2,429,267) | (2,429,267) | (2,429,266) | (2,743,434) | (2,743,434) | (2,743,432) | (152,634) | (152,634) | (152,632) | (1,262,501) | (1,262,501) | (18,862,602) |
| 16 | Accrual of PPAC adjustment | 2,191,500 | 757,800 | 3,515,100 | 2,401,700 | 4,654,200 | 4,647,800 | 1,320,900 | 1,157,600 | (1,315,800) | (3,152,800) | (1,325,100) | 123,800 | 14,976,700 |
| 17 | Reversal of PPAC accrual | (822,234) | (1,534,900) | (1,534,900) | (1,534,900) | (2,154,801) | (2,154,801) | (2,154,798) | (3,901,233) | (3,901,233) | (3,901,234) | (387,568) | (387,568) | (24,370,170) |
| 18 | Reclass excess DSM revenues | (33,172) | (49,801) | 11,448 | 163,556 | 164,655 | 172,002 | 184,046 | 80,370 | 75,572 | 79,569 | (17,328) | (15,121) | 815,796 |
| 19 | Reclass excess DRAC revenues | | (12,490) | (96,264) | (79,581) | (115,027) | (131,987) | (173,171) | (162,078) | (210,176) | (88,349) | (106,014) | (75,362) | (1,250,499) |
| 20 | Tax Reform Act adjustment | (2,265,026) | (2,099,090) | (1,309,124) | (649,271) | 178,602 | 178,602 | 178,602 | 178,602 | 178,602 | 178,602 | 178,602 | 178,602 | (4,893,695) |
| 21 | Other unbilled adjustments | - | - | (239,405) | (457,680) | (1,408,951) | - | - | - | - | - | - | - | (2,106,036) |
| 22 | Accrual of current month's RBA (PUC Monthly Financial Report pg. 9A) | 5,077,211 | 5,522,935 | 5,237,442 | 3,422,723 | 6,594,397 | 2,687,291 | 3,672,487 | 5,153,412 | (570,165) | (1,531,719) | (616,585) | 602,499 | 35,251,928 |
| 23 24 = | RBA gross up for revenue taxes | 495,099 | 538,563 | 510,724 | 333,763 | 643,046 | 262,048 | 358,119 | 502,530 | (55,599) | (149,364) | (60,126) | 58,752 | 3,437,555 |
| n 9-23 | Miscellaneous unbilled accruals | 3,954,997 | (1,990,056) | 2,946,704 | 2,446,176 | 439,741 | (4,597,861) | (722,372) | (103,992) | (12,498,748) | (12,273,990) | (5,109,091) | (1,059,668) | (28,568,160) |
| = 8+24 | UNBILLED REVENUES | 5,130,062 | (9,497,647) | 2,732,972 | 2,157,583 | 6,259,493 | (500,786) | 9,388,561 | 2,278,335 | (10,270,456) | (16,535,364) | (7,884,787) | (917,858) | (17,659,892) |
| = 5+25 | TOTAL REVENUES PER G/L (PUC Monthly Financial Report) | 135,278,758 | 124,082,063 | 140,060,798 | 140,895,862 | 141,709,071 | 146,477,366 | 163,919,264 | 166,895,733 | 154,919,954 | 161,528,223 | 156,201,186 | 157,558,297 | 1,789,526,575 |
| | Billed Adjustments to Determine Adjusted Revenues for RBA: | | | | | | | | | | | | | |
| 27 | Add back C&C unmetered revenue | - | - | 10,230 | - | - | 10,310 | - | - | 10,911 | - | - | 11,330 | 42,781 |
| 28 | Add back diplomatic tax exemption (excl. exempted rev taxes on PBF surcharge) | 323 | 312 | 337 | 297 | 307 | 17 | 742 | 351 | 334 | 332 | - | 581 | 3,933 |
| 29 | Remove ECAC revenues | 7,436,356 | 4,121,689 | 1,715,503 | 2,282,011 | (962,632) | (6,550,979) | (7,637,339) | (6,113,486) | (13,243,977) | (25,122,448) | (25,453,166) | (28,257,616) | (97,786,084) |
| 30 | Remove PPAC revenues | (13,915,656) | (14,192,358) | (14,513,240) | (14,719,197) | (12,339,728) | (11,177,856) | (13,913,483) | (18,062,250) | (19,621,783) | (21,968,249) | (18,435,053) | (15,583,999) | (188,442,852) |
| 31 | Remove REIP revenues | - | - | - | - | - | 9 | (9) | - | - | - | - | - | - |
| 32 | Remove DSM revenues | (357,105) | (321,161) | (68,674) | (67,965) | 275,965 | 150,334 | 153,540 | 124,173 | 66,280 | 70,534 | 24,118 | (25,119) | 24,920 |
| 33 | Remove revenue taxes of PBF revenues | (83,120) | (81,978) | (81,456) | (82,596) | (80,682) | (86,323) | (94,272) | (108,499) | (107,308) | (112,932) | (102,768) | (97,111) | (1,119,045) |
| 34 | Remove Solar Saver revenues | - 1 | 2 | - 1 | 3,675 | 4,250 | (4) | 5 | - | - 1 | | | | 7,928 |
| 35 | Remove revenue taxes on billed revenues | (10,948,941) | (10,937,987) | (11,052,098) | (11,208,828) | (10,870,536) | (11,490,407) | (11,820,594) | (12,479,665) | (11,754,399) | (11,633,204) | (10,672,582) | (10,175,477) | (135,044,718) |
| 36 | Remove base fuel (adjusted for revenue taxes) | (45,592,364) | (45,532,869) | (44,984,425) | (45,711,413) | (44,832,955) | (47,622,032) | (48,663,614) | (52,260,945) | (41,614,714) | (30,245,267) | (27,651,766) | (26,028,373) | (500,740,737) |
| 37 | Remove power purchase energy (adjusted for revenue taxes) | (19,235,019) | (19,209,918) | (18,978,535) | (19,285,245) | (18,914,631) | (20,091,318) | (20,530,752) | (22,048,435) | (23,218,962) | (27,055,291) | (24,735,328) | (23,283,155) | (256,586,589) |
| 38 | Other operating revenue - EV-U revenue net of revenue taxes | 8,735 | 7,570 | 8,289 | 7,811 | 9,331 | 8,857 | 9,382 | 10.487 | 9,761 | 9,376 | 8,408 | 8,222 | 106,229 |
| 39 | Other operating revenue - SMNP revenue net of revenue taxes | 10,372 | 10,091 | 10,724 | 10,775 | 10,473 | 10,868 | 11,357 | 11,803 | 12,350 | 12,566 | 12,930 | 13,235 | 137,544 |
| | Habillad Adinatoranta to Determine Adinated December Co. DDA. | | | | | | | | | | | | | |
| 40 | Unbilled Adjustments to Determine Adjusted Revenues for RBA: Remove ESM refund accrual & reversal | (1,258) | (1,127) | (1,258) | (1,217) | (1,310) | - | - | _ | | | | | (6,170) |
| 41 | Remove accrual of Performance Incentive Mechanism | (1,238) | (1,127) | (1,236) | (1,217) | (1,510) | | | | | | | 531,871 | 531,871 |
| 42 | Remove accrual of Performance incentive Mechanism Remove accrual of Test Year rate case refund | - | - | - | - | - | - | 48,000 | - | - | - | - | 331,6/1 | 48.000 |
| 42 | Remove ECAC revenues | (1,486,257) | (2,862,578) | 303,420 | 280,965 | (3,957,819) | (1,816,018) | 500,913 | 1,265,450 | (10,925,845) | 1,035,980 | (2,713,315) | (892,545) | (21,267,649) |
| 43 | Remove ECAC revenues Remove ECAC accrual | (3,008,600) | (2,862,578) | (521,733) | (2,609,634) | 4.341.634 | 5,726,234 | (825,168) | (1,876,866) | 1.963,234 | (1,277,468) | (1,737,499) | (3,322,999) | (21,267,649) (2.628.698) |
| 44 | Remove ECAC accrual Remove PPAC revenues | | | | | | | | (1,876,866) (1,255,537) | | | | | |
| 45 46 | Remove PPAC revenues Remove PPAC accrual | (362) | 790,980 | 83,923 | (190,441) | 1,925,917 | (585,389) | (3,208,412) | (1,255,537) | (926,779) | 502,842 | 2,437,748 | 175,715 263,768 | (249,795) |
| | | (1,369,266) | 777,100 | (1,980,200) | (866,800) | (2,499,399) | (2,492,999) | 833,898 | | 5,217,033 | 7,054,034 | 1,712,668 | | 9,393,470 |
| 47 48 | Remove DSM revenues | 123 | 146,685 | 67,590 | 75,567 | 4,644 | 1,691 | 10,508 | (54,195) | (1,101) | (1,358) | (20,730) | (28,943) | 200,481 |
| 48 49 | Remove excess DSM revenues | 33,172 | 49,801 | (11,448) | (163,556) | (164,655) | (172,002) | (184,046) | (80,370) | (75,572) | (79,569) | 17,328 | 15,121 | (815,796) |
| | Remove excess DRAC revenues | 0.000.00 | 12,490 | 96,264 | 79,581 | 115,027 | 131,987 | 173,171 | 162,078 | 210,176 | 88,349 | 106,014 | 75,362 | 1,250,499 |
| 50 | Remove Tax Reform Act adjustment | 2,265,026 | 2,099,090 | 1,309,124 | 649,271 | (178,602) | (178,602) | (178,602) | (178,602) | (178,602) | (178,602) | (178,602) | (178,602) | 4,893,695 |
| 51 | Remove Other unbilled adjustments | (5.055.011) | - | 239,405 | 457,680 | (697,085) | | | - | - | | - | - | (25.251.225) |
| 52 | Remove RBA accruals | (5,077,211) | | (5,237,442) | (3,422,723) | (6,594,397) | (2,687,291) | (3,672,487) | (5,153,412) | 570,165 | 1,531,719 | 616,585 | (602,499) | (35,251,928) |
| | Remove RBA gross up for revenue taxes | (495,099) | (538,563) | (510,724) | (333,763) | (643,046) | (262,048) | (358,119) | (502,530) | 55,599 | 149,364 | 60,126 | (58,752) | (3,437,555) |
| 53 | | 356,259 | 1,246,258 | 304,765 | 345,403 | 185,661 | 251,910 | (224,632) | 235,632 | 1,276,077 | 685,040 | 673,880 | 438,951 | 5,775,204 |
| 53 54 | Remove revenue taxes on unbilled revenues | | | (7.0((| (553,246) | (1,436,497) | (568,898) | (2,957,080) | (792,084) | 13,375,971 | 644,413 | 813,770 | 270,673 | 12,957,959 |
| 53 54 55 | Remove revenue taxes on unbilled revenues Remove base fuel (adjusted for revenue taxes) | 36,828 | 4,056,143 | 67,966 | | | | | | | | | | |
| | Remove revenue taxes on unbilled revenues | | 4,056,143 1,711,252 | 28,674 | (233,410) | (606,045) | (240,013) | (1,247,567) | (334,173) | (1,940,840) | 576,447 | 727,941 | 242,125 | (1,300,072) |
| 53 54 55 56 | Remove revenue taxes on unbilled revenues Remove base fuel (adjusted for revenue taxes) | 36,828 | | | | | (240,013) | (1,247,567) | (334,173) | (1,940,840) | 576,447 | 727,941 | | |
| 53 54 55 56 57 = | Remove revenue taxes on unbilled revenues Remove base fuel (adjusted for revenue taxes) Remove power purchase energy (adjusted for revenue taxes) | 36,828 15,537 | 1,711,252 | 28,674 | (233,410) | (606,045) | | | | | | | 242,125 | |
| 53 54 55 56 57 = m 27-56 | Remove revenue taxes on unbilled revenues Remove base fuel (adjusted for revenue taxes) | 36,828 | | | | | | | (334,173) (116,747,444) 50,148,289 | (1,940,840) (100,841,991) 54,077,963 | | 727,941 (104,489,294) 51,711,892 | 242,125 | (1,300,072) |

Note: Amounts may not add exactly due to rounding.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF O&M RAM ADJUSTMENT (\$ in Thousands)

| | | | (\$ in | Thousands |) | | _ | | | |
|----------|---|--------------------------------------|--------|-----------------------------------|---|------|------------------------|--|-------|---|
| Line No. | Description | Reference | 20 | ocket No. 016-0328 approved | Footnote 4 Previously Approved RAM | to | Exalation ol (c) + (d) | Net Inflation Indices Footnote 2 | A | 2019 &M RAM djustment ol (e) * (f) |
| | (a) | (b) | | (c) | (d) | | (e) | (f) | | (g) |
| 1 | Base BU Labor Expenses | Schedule C1 | \$ | 47,048 | | \$ | 47,048 | 4.19% | \$ | 1,973 |
| 2 | Base Non-Labor Expense | Schedule C2 | \$ | 134,734 | | \$ | 134,734 | 4.24% | \$ | 5,718 |
| 3 | Payroll Taxes | Footnote 1 | \$ | 3,943 | | \$ | 3,943 | 4.19% | \$ | 165 |
| 4 | Subtotal Expense Increase - RAM A | djustment before | e rev | enue taxes | | | | | \$ | 7,856 |
| 5 | Revenue Tax Factor (Footnote 3) | | | | | | | | | 1.0975 |
| 6 | O&M RAM (SubTotal Expenses x R | Rev Tax Factor) | | | | | | | \$ | 8,622 To Sch A1 |
| | Footnotes: 1: Payroll Taxes per Stipulated Settle Exhibit 2C, page 6, approved Less: Portion of payroll taxes rela Payroll Taxes related to Bargainin | in Order No. 355 ted to non-BU la | 545, | filed June 22 | , 2018. | 2016 | 5-0328, | \$ 9,342 \$ (5,399) \$ 3,943 | | |
| | ^A See Schedule C1 for calculat | ion of percentag | e rela | ated to non-F | BU labor. | | | | | |
| | 2: Escalation Rates | | | | | | | | | |
| | Labor: | | | 2018 | 2019 | | | | | |
| | Bargaining Unit Wage Increase | | | 2.67% | 3.00% | (Se | e HECO-WI | P-C-001) | | |
| | Less: Labor Productivity Offset | | | 0.76% | 0.76% | App | roved in Final | D&O in Docket | No. 2 | 2008- 0274, |

| 2. Escalation Rates | | | |
|--|------------|--------|---|
| Labor: | 2018 | 2019 | |
| Bargaining Unit Wage Increase | 2.67% | 3.00% | (See HECO-WP-C-001) |
| Less: Labor Productivity Offset | 0.76% | 0.76% | Approved in Final D&O in Docket No. 2008- 0274, page 51, filed on August 31, 2010 |
| Labor Cost Escalation Rate | 1.91% | 2.24% | page 51, med on ranguast 51, 2010 |
| Calculation of 2018 Compounded Labor Cost Escala | ation | | |
| 2018 Labor Cost Escalation | | 1.0191 | A (2018 labor escalation plus 1) |
| 2019 Labor Cost Escalation | | 1.0224 | B (2019 labor escalation plus 1) |
| 2018-2019 Compounded Labor Cost Escalation | _ | 1.0419 | C = A * B |
| 2018-2019 Compounded Labor Cost % | | 0.0419 | D = C - 1 |
| Non-Labor: | 2018 | 2019 | |
| GDP Price Index | 2.10% | 2.10% | (See HECO-WP-C-002) |
| Calculation of 2018 Compounded Non-Labor Cost I | Escalation | | |
| 2018 Non-Labor Cost Escalation | | 1.0210 | A (2018 non-labor escalation plus 1) |
| 2019 Non-Labor Cost Escalation | | 1.0210 | B (2019 non-labor escalation plus 1) |
| 2018-2019 Compounded Non-Labor Cost Escalati | on | 1.0424 | C = A * B |
| 2018-2019 Compounded Non-Labor Cost % | | 0.0424 | D = C - 1 |
| 3: Computation of Revenue Tax Factor | | | |
| Public Service Tax Rate | 0.05885 | | |
| PUC Fees Rate | 0.00500 | | Revenue Tax Factor |
| Franchise Tax Rate | 0.02500 | | = 1 / (1 - Total Revenue Tax Rate) |
| Total Revenue Tax Rate | 0.08885 | | 1.0975 |

^{4:} Column d "Previously Approved RAM" is not used as the labor and non-labor escalation is accomplished through the use of a compounded escalation rate in column f, as shown in footnote 2.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKSHEET RATE ADJUSTMENT MECHANISM SUMMARY OF OPERATIONS AND MAINTENANCE LABOR AND NON-LABOR EXPENSE

BY BLOCK OF ACCOUNTS Interim D&O - Docket No. 2016-0328

(\$ in Thousands)

Footnote 1

| | Foor | tnote 1 | | Footnote 2 | (e) TOTAL 79,306 15,807 46,825 20,354 | | | | | |
|---|----------|--------------|----------------------|------------|--|--|--|--|--|--|
| | (a) | (b) | (c)=(a)+(b) TOTAL | (d) | (e) | | | | | |
| DESCRIPTION | BU LABOR | NON-BU LABOR | <u>LABOR</u> | NON-LABOR | <u>TOTAL</u> | | | | | |
| Production | 21,744 | 13,212 | 34,956 | 44,350 | 79,306 | | | | | |
| Transmission | 2,420 | 2,933 | 5,353 | 10,454 | 15,807 | | | | | |
| Distribution | 12,086 | 7,321 | 19,407 | 27,418 | 46,825 | | | | | |
| Customer Accounts | 8,258 | 3,618 | 11,876 | 8,478 | 20,354 | | | | | |
| Allowance for Uncoll Accounts | - | - | - | 732 | 732 | | | | | |
| Customer Service | 134 | 5,582 | 5,716 | 9,936 | 15,652 | | | | | |
| Administrative & General | 2,406 | 31,769 | 34,175 | 85,583 | 119,758 | | | | | |
| Customer Benefit Adjustment (Footnote 3) | - | - | - | (10,023) | (10,023) | | | | | |
| Operation and Maintenance | 47,048 | 64,435 | 111,483 | 176,928 | 288,411 | | | | | |
| | To Sch C | | | To Sch C2 | X | | | | | |
| Percentage of Total O&M Labor * amounts may not add due to rounding | 42.20% | 57.79% | 100% | | | | | | | |

Footnotes:

1 SOURCE: 2017 test year breakdown of BU and non-BU labor obtained from UI Planner Budget files.

2 O&M breakdown below includes fuel and purchase power expenses consistent with the presentation in the Results of Operations.

| | | Footnote 2a | | Footne | ote 2b |
|---|---------|-------------|-----------|----------|------------|
| <u> </u> | | | | ADJUST- | STIPULATED |
| | LABOR | NON-LABOR | TOTAL | MENT | SETTLEMENT |
| FUEL | - | 327,609 | 327,609 | | 327,609 |
| PURCHASE POWER | - | 466,211 | 466,211 | | 466,211 |
| PRODUCTION | 34,956 | 44,350 | 79,306 | | 79,306 |
| TRANSMISSION | 5,354 | 10,454 | 15,808 | | 15,808 |
| DISTRIBUTION | 19,407 | 27,418 | 46,825 | | 46,825 |
| CUSTOMER ACCOUNTS | 11,876 | 8,478 | 20,354 | | 20,354 |
| UNCOLLECTIBLE ACCOUNTS | - | 732 | 732 | | 732 |
| CUSTOMER SERVICE | 5,715 | 9,936 | 15,651 | | 15,651 |
| ADMIN & GENERAL | 34,265 | 85,945 | 120,210 | (452) | 119,758 |
| CUSTOMER BENEFIT ADJUSTMENTS | - | - | - | (10,023) | (10,023) |
| TOTAL | 111,573 | 981,133 | 1,092,706 | (10,475) | 1,082,231 |
| TOTAL O&M EXPENSE (Excl Fuel & Purch Po | 111,573 | 187,313 | 298,886 | (10,475) | 288,411 |

- 2a See Order No. 35280, For Approval of General Rate Case and Revised Schedules/Rules, filed on February 9, 2018, in which the Commmission approved the revised schedules or operations and tariff sheets filed January 19, 2018, Exhibit A, Page 1 of 4.
 See Docket No. 2016-0328 Hawaiian Electric 2017 Test Year Rate Case Revised Schedules Resulting from Interim Decision and Order No. 35100 as modified by Order No. 35229 and Order No. 35220, filed January 19, 2018, Exhibit 2, Attachment 1, Page 1 for Labor/Non-Labor breakdown.
- 2b See Order No. 35335, For Approval of General Rate Case and Revised Schedules/Rules, filed on March 9, 2018, in which the Commmission accepted the Parties' Stipulated Settlment on Remaining Issues filed March 5, 2018, Exhibit 2C, Page 1 of 13.
- 3 Customer Benefit Adjustments identified in the Results of Operations have been included as a reduction to O&M non-labor subject to escalation. See Order No. 35545, For Approval of General Rate Case and Revised Schedules/Rules, Appendix A, page 1 of 4, filed on June 22, 2018.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK

Non-Labor Exclusion Adjustment for O&M RAM

(\$ thousands)

| Line No. | Decription | Amount | Reference |
|----------------|--|---------|---|
| | (a) | (b) | (c) |
| 1 2 | Pension Expense | 73,940 | Note 1 |
| 3 4 5 | OPEB Expense | (470) | Note 1 |
| 6 7 | Total before amounts transferred | 73,470 | |
| 8 9 10 | O&M % (1- transfer rate of 42.57%) | 57.43% | See Parties' Stipulated Settlement Letter, filed November 15, 2017, in |
| 11 12 | (| | Docket No. 2016-0328, HECO T-16 Attachment 4, page 1 |
| 13 14 | Adjustment to Non-Labor O&M Expense for O&M RAM base | 42,194 | |
| 15 16 17 | Non-Labor O&M Expense per Interim D&O | 176,928 | Schedule C1 |
| 18 19 | Then Euron Gent Expense per Internal Bees | | Selection C1 |
| 20 21 | Non-Labor O&M Expense Base for O&M RAM base | 134,734 | Schedule C |

Note 1: See Parties' Stipulated Settlement Letter, filed November 15, 2017 in Docket No. 2016-0328, Exhibit 1, page 63 for the summary of the pension and OPEB cost the Parties agreed to. In Parties' Stipulated Settlement Letter on Remaining Issues, filed March 5, 2018 in Docket No. 2016-0328, Exhibit 1, page 4, amortization of the excess pension contribution from the test year was reduced to zero. Approved in Final Decision and Order No. 35545, filed on June 22, 2018.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RATE BASE RAM ADJUSTMENT - RETURN ON INVESTMENT

| | | | | | POST TAX | INCOME | PRETAX |
|----------|-----------------------------------|----------------|--------------|-------|----------|----------|--------------------------|
| | | AMOUNTS | PERCENT | | WEIGHTED | TAX | WEIGHTED |
| | | IN | OF | COST | EARNINGS | FACTOR | EARNINGS |
| Line No. | Description | THOUSANDS | TOTAL | RATE | REQMTS | (Note 1) | REQMTS |
| | (a) | (b) | (c) | (d) | (e) | (f) | (g) |
| 1 | PUC APPROVED CAPITAL STR | UCTURE & COS | TS (Note 2): | | | | |
| 2 | Short-Term Debt | \$ 27,770 | 1.18% | 1.75% | 0.02% | 1.000000 | 0.02% |
| 3 | Long-Term Debt | 928,748 | 39.59% | 5.03% | 1.99% | 1.000000 | 1.99% |
| 4 | Hybrid Securities | 28,651 | 1.22% | 7.19% | 0.09% | 1.000000 | 0.09% |
| 5 | Preferred Stock | 21,137 | 0.90% | 5.37% | 0.05% | 1.346835 | 0.07% |
| 6 | Common Equity | 1,339,335 | 57.10% | 9.50% | 5.42% | 1.346835 | 7.31% |
| 7 | Total Capitalization | \$ 2,345,641 | 100.00% | | 7.57% | | 9.47% |
| 8 | RAM CHANGE IN RATE BASE | \$000 (From Sc | chedule D1) | | | | \$ 109,457 |
| 9 | PRETAX RATE OF RETURN (Li | ne 7, Col g) | | | | | 9.47% |
| 10 | PRETAX RETURN REQUIREME | NT | | | | | \$ 10,365.5 |
| 11 | REVENUE TAX FACTOR (1/(1-8.885%)) | | | | | | 1.0975 |
| 12 | RATE BASE RAM - RETURN O | N INVESTMENT | \$000 | | | | \$ 11,376.2 To Sch A1 |

Footnotes:

1 Composite Federal & State Income Tax Rate 25.75% See HECO-WP-F-001 Income Tax Factor (1 / 1-tax rate) 1.346835

² See Order No. 35335, For Approval of General Rate Case and Revised Schedules/Rules, filed on March 9, 2018, in which the Commission accepted the Parties' Stipulated Settlement on Remaining Issues filed March 5, 2018, Exhibit 2C, Page 2 of 13. Approved in Final Decision and Order No. 35545 filed June 22, 2018.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RATE BASE RAM ADJUSTMENT - CHANGE IN RATE BASE \$ in thousands

| | | HECO 201 | 7 Test Yea | ar Rate | e Base (Note 2) | | HE | ECO 2019 RAM R | te Base | • | |
|-----------|---|-----------------|-------------------|---------|---------------------------|----------|-------------------------|----------------------------------|------------------|----------------------|----------------------|
| | | Beg. Bal | ance | Bu | dgeted Balance | | Adjusted Recorded at | RAM Projecte | i | Estimated at | |
| Line No. | Description | 12/31/2 | | | 12/31/2017 | | 12/31/2018 | Amounts | | 12/31/2019 | |
| | (a) | (b) | | | (c) | | (d) (Note 1) | (e) See Detail Belo | w | (f) | |
| 1 2 | Net Cost of Plant in Service, Net of CIAC Property Held for Future Use | \$ 2 | ,595,452 | \$ | 2,770,695 | \$ | 2,437,105 | \$ 129, | 932 \$ - | 2,567,037 | (Note 3) |
| 3 | Fuel Inventory | | 46,200 | | 46,200 | | | | | | |
| 4 | Materials & Supplies Inventories | | 28,427 | | 28,427 | | | | | | |
| 5 | Unamort Net ASC 740 Reg Asset | | 70,144 | | 74,887 | | | | | | |
| 6 7 | Unamort EOTP Reg Asset | | 444 2,306 | | 89 | | | These Element of Rate Base at | | | |
| 8 | CIP CT-1 Reg Asset Unamort Sys Dev Costs | | 15,932 | | 1,352 13,496 | | Not | Updated for RAM | | es | (Note 5) |
| 9 | RO Pipeline Reg Asset | | 4,958 | | 4,842 | | 1101 | opulied for fu fin | upos | | (Note 3) |
| 10 | Pension Tracking | | 97,620 | | 113,828 | | | | | | |
| 11 | Contrib in Excess of NPPC | | 6,470 | | 6,470 | | | | | | |
| 12 | Total Additions | \$ 2 | ,867,953 | \$ | 3,060,286 | \$ | 2,718,151 | \$ 129, | 932 \$ | 2,848,083 | |
| 13 13a | Unamortized CIAC/CIAC in CWIP Developer Advances | \$ | (347,826) | \$ | (395,134) | \$ \$ | (30,110) (21,345) | | - S | | (Note 3) (Note 3) |
| 14 | Customer Advances | | (3,581) | | (3,925) | | | | | | (Note 3) |
| 15 | Customer Deposits | | (12,101) | | (12,005) | | | Not Updated | | | |
| 16 | Accumulated Def Income Taxes | | (520,643) | | (333,360) | | (282,714) | | 226) | (289,939) | (Note 4) |
| 17 18 | ADIT Excess Reg Liability Unamortized State ITC (Gross) | | (56 222) | | (203,950) | | (277,406) | 10, | 381 | (267,025) | (Note 4), Sch D5 |
| 18 | Unamortized State ITC (Gross) Unamortized Gain on Sale | | (56,323) (248) | | (54,903) (182) | | | Not Updated | | | |
| 20 | Pension Reg Liability | | - (240) | | (102) | | | rior opunion | | | |
| 21 | OPEB Reg Liability | | (2,817) | | (2,331) | | | | | | |
| 22 | Total Deductions | \$ | (943,539) | \$ | (1,005,790) | \$ | (685,783) | \$ 3, | 155 \$ | (682,628) | |
| 23 | Working Cash | | 3,904 | | 3,904 | | 3,904 | Not Updated | | 3,904 | |
| 24 | Rate Base at Proposed Rates | \$ 1 | ,928,318 | | 2,058,400 | \$ | 2,036,272 | | \$ | 2,169,359 | |
| 25 26 | Average Rate Base Change in Rate Base | | | \$ | 1,993,359 | | | | \$ | 2,102,816 109,457 | |
| 20 | Change in Kate base | | | | | | | | Ф | To Schedule D | |
| 27 | Column (e) Projected Changes to Rate Base: | | | | Reference | | Amount \$000 | | | | |
| 28 | Plant - Baseline Capital Project Additions, N | et of CIAC | | | Schedule D2 | | 200,583 | | | | |
| 29 30 | Major Project Additions, Net of CIAC Accumulated Depreciation/Amortization Cha | | | | Schedule D3 Schedule E | | 69,023 (139,674) | | | | |
| 31 | Net Plant | ange | | Su | m: Lines 28-30 | _ | 129,932 | | | | |
| 32 | ADIT - Baseline and Major Capital Projects | | | | Schedule F | | (7,226) | | | | |
| 33 | ADIT - Joint Pole Capital Transfer Price | | | c. | Note 6 im: Line 32-33 | _ | (7,226) | | | | |
| 34 | ADIT Excluding Joint Pole | | | 31 | IIII. Lilie 32-33 | _ | (7,226) | | | | |
| 35 | Excess ADIT Reg Liability Amortization (Plant 282 excess def amort beginning 6/1/20 | 19) | | | Schedule D5 | | 10,381 | | | | |
| | | .,, | | | | | | | | | |
| 1 | Footnotes: Amounts are recorded, except for the follow | ing adjustments | : | | | | | Schedule D4 | | | |
| | | | | | lant in Service | _ | Acc. Depr. | ADIT | | | |
| [A] | Unadjusted Balance Add: | | | \$ | 4,496,539 | \$ | (1,565,762) | \$ (283, | 658) | | |
| [A] | RWIP | | | | | | 41,901 | | | | |
| [A] | Asset Retirement Obligation | | | | | | (4,780) | | | | |
| [A] | Reg Liab-Cost of Removal (net salvage) Tenant Improvement Allowance (Sch E) | | | | (14,132) | | (356,926) 9,824 | | | | |
| | | | | | | | | | | | |
| | Major Project Adjustments: ERP EAM Hardware | | | HEC | CO-WP-D2-001 (14) | Н | IECO-WP-E-001 | HECO-WP-D4- | 0 02 2 | | |
| | Koolau-Wailupe #1 Str 30 P9 Replace | | | | (14) | | 4 | | 14 | | |
| | Total Adjustments | | | \$ | (156) | \$ | 7 | \$ | | Schedule D4 | |
| | Major Project Interim Recovery Adjustments: Schofield Generation Station | i | | HEC | CO-WP-D2-001 (144,744) | Н | IECO-WP-E-001 | HECO-WP-D4- | | Schedule D4 | |
| | Total Adjustments | | | \$ | (144,744) | \$ | | | 832 | circuit D4 | |
| | Joint Pole Capital Transfer Price | | Note 6 | Ψ | (24,666) | \$ | | | 904) N | Note 6 | |
| | Adjusted Balance | | | \$ | 4,312,841 | \$ | (1,875,736) | \$ (282, | | | |
| | | | | | | | | | | | |

- 2 See Final Decision and Order No. 35545, For Approval of General Rate Case and Revised Schedules/Rules, filed on June 22, 2018, Exhibit B, Page 1 of 2. Revised for presentation purposes only to properly reflect the Unamortized Net ASC 740 Reg Asset, ADIT, and ADIT Excess Reg Liability balances. No change to Total Average Rate Base.
- 3 Per PowerPlan extract. Effective October 2018, the Company reclassified CIAC to Plant in Service or CWIP consistent with FERC guidelines. In 2018, CIAC has been netted with either Plant in Service or CWIP and Developer Advances (Cash CIAC received from developers, subject to refund) which has been included as a reduction to rate base. See further discussion of the Company's treatment of CIAC at HECO-WP-D1-001.
- 4 As a result of the 2017 Tax Reform Act, Regulatory Liability accounts were created and recorded as of December 31, 2017 to isolate the 2017 excess accumulated deferred taxes resulting from the lower federal tax rate. The bifurcated Regulatory Liabilities are included as a reduction to Rate Base. See further discussion at Schedule F.
- 5 HECO 2017 Test Year Rate Base includes CIS deferred costs in Unamortized System Development Costs. See detail in November 15, 2017, Stipulated Settlement Letter, HECO T-17, Attachment 1, Page 2.
- 6 See Decision and Order No. 35768, Docket No. 2018-0075 filed October 16, 2018. Commission approved the Asset Transfer, Pole Licensing and Amended Joint Pole Agreements and the accounting and ratemaking treatment described in Exhibit E of the Application. The change in ADIT represents the tax effect of the book tax difference on depreciation for the Joint Pole assets.
- [A] SOURCE: Hawaiian Electric Company, Inc. Monthly Financial Report December 2018, filed February 28, 2019.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF BASELINE CAPITAL PROJECTS ADDITIONS, NET OF CIAC

Source: Docket No. 03-0257 General Order No. 7 Plant Additions Annual Reports filed with the PUC dated:

| | | | | 3/27/2015 | 3/29/2016 | 3/30/2017 | 3/27/2018 | NOTE (1) |
|----------|---|---------------------------------------|----------------------|----------------------------|----------------------|--------------|---------------|---------------|
| Line No. | Description (a) | | | 2014 (c) | 2015 (d) | 2016 (e) | 2017 (f) | 2018 (f) |
| | (a) | | | (c) | (u) | (c) | (1) | (1) |
| 1 | Total Plant Additions | | | 269,326,250 | 266,537,660 | 241,294,569 | 276,754,129 | 358,703,631 |
| 2 | Less: Non-Utility Plant Additions | | NOTE (2) | | (63) | (3,954) | - | - |
| 3 | Adjusted Total Plant Additions | | | 269,326,250 | 266,537,597 | 241,290,615 | 276,754,129 | 358,703,631 |
| 4 | | | | | | | | |
| 5 | Less Major Projects: (+\$2.5 Million) | <u>Dkt No.</u> | Item No. | 10.502 | (70) | | | |
| 6 | W8 Boiler Controls Upgrade | 2007-0365 | P7650000 | 18,503 | (70) | ((82) | | |
| 7 8 | EOTP Ph. 2 (Subs/Switch Stations) | 2010-0062 | Y48500 | (7,357) | (55,681) | (682) | | |
| 9 | W7 Controls Upgrade | 2009-0195 | P7590000 | (8,237) | (35) | | | |
| 10 | 2012 In-Service: | | | | | | | |
| 11 | Kapolei Substation | 2011-0026 | Y00127 | (6,459) | | | | |
| 12 | 1 | | | (-,, | | | | |
| 13 | 2013 In-Service: | | | | | | | |
| 14 | Pukele 80MVA Tsf #3 | 2011-0156 | P0001494 | (28,327) | 15,611 | | | |
| 15 | Kakaako Makai-Iwilei 25kV DL | 2009-0042 | Y00038 | (485,650) | (496,818) | | 400,000 | |
| 16 | North South Road 46kV Line | 2008-0070 | Y00119 | | (3,488) | | | |
| 17 | | | | | | | | |
| 18 | 2014 In-Service: | | | | | | | |
| 19 | Kaloi Substation | 2008-0070 | Y00119 | (6,548,755) | (925) | | | |
| 20 | Kaloi Sub 46kV & 12kV Distr | 2008-0070 | Y00119 | (1,218,895) | | | | |
| 21 | Kaloi Telecomm | 2008-0070 | Y00119 | (171,237) | | | | |
| 22 | Kaloi Sub 12kV Work | 2008-0070 | Y00119 | (25,906) | | | | |
| 23 | Kakaako Makai-Kewalo 25kV DL | 2009-0042 | Y00038 | (4,958,840) | (464,900) | (111) | 400,000 | |
| 24 | Kakaako Makai DOT Queen-Cook | 2009-0042 | Y00038 | (1,961,600) | (418,816) | (2,890,742) | 476,166 | |
| 25 | BPT Tank 133 Improvements | 2010-0318 | P0000900 | (6,095,787) | (1,092,308) | | | |
| 26 27 | Pukele 80MVA Tsf #2 | 2011-0156 2008-0329 | P0001492 P0001370 | (3,449,859) (4,965,396) | (40,084) (97,130) | (172,652) | (94,001) | 3,516 |
| 28 | DOT Airport DSG | 2008-0329 | F0001370 | (4,905,590) | (97,130) | (172,032) | (94,001) | 3,310 |
| 29 | 2016 In-Service: | | | | | | | |
| 30 | Pukele 80MVA Tsf #1 | 2011-0156 | P0002264 | | | (3,839,121) | (7,612) | |
| 31 | Takete oom vii 131 //1 | 2011 0150 | 10002201 | | | (5,05),121) | (7,012) | |
| 32 | 2017 In-Service: | | | | | | | |
| | | 2014.0170 | PE.000003 | | | | (2 (04 140) | |
| 33 | ERP EAM Hardware | 2014-0170 | (Y00168) | | | | (2,604,146) | |
| 2.4 | V1 W-:1 #1 S4 20 D0 D1 | | PE.000104 | | | | (2 (94 297) | (12.202) |
| 34 | Koolau-Wailupe #1 Str 30 P9 Replace | | (P0003465) | | | | (2,684,387) | (13,203) |
| 35 | | | | | | | | |
| 36 | 2018 In-Service: | | | | | | | |
| | | | PZ.000016/ | | | | | |
| 37 | MPIR-Schofield Generating Station | 2017-0213 | PZ.001002 | | | | | (144,743,542) |
| • | | 2040 0055 | (P0001576) | | | | | (24.555.00=) |
| 38 | Joint Pole Capital Transfer Price | 2018-0075 | PE.005155 | | | | | (24,665,897) |
| 39 | Total Net Plant Additions (excluding major | projects) | | 239,412,448 | 263,882,953 | 234,387,307 | 272,640,149 | 189,284,505 |
| 40 | I (F) V A DI (ALP) | | | | | | T- C-1 E1 | 220 021 452 |
| 41 | Last Five-Year Average - Plant Additions | | | | | | To Sch F1 | 239,921,472 |
| 42 | I CIAC in-ludin - Developer Adven- | | NOTE (2) | (21 902 050) | (42 140 722) | (2(214 201) | (50 940 2(9) | (20 5(9 427) |
| 43 44 | Less: CIAC, including Developer Advances | | NOTE (3) | (31,803,050) | (42,140,722) | (36,314,281) | (59,849,268) | (29,568,427) |
| 45 | EOTP Ph. 2 (Subs/Switch Stations)-CIAC | 2010-0062 | Y48500 | 43,725 | 15,232 | 718 | | |
| 46 | Kakaako Makai DOT Queen-Cook-CIAC | 2010-0002 | Y00038 | 73,123 | 13,232 | 2,825,023 | | |
| 47 | DOT Airport DSG-CIAC | 2009-0042 | P0001370 | | | 2,023,023 | | 96,602 |
| 48 | Total CIAC Additions (excluding major pro | | 10001570 | (31,759,325) | (42,125,490) | (33,488,540) | (59,849,268) | (29,471,825) |
| 49 | major pro | · · · · · · · · · · · · · · · · · · · | | (,.0,,0=0) | (,-20, 1, 0) | (, -50,0 -0) | (,-,-,-,-,-,) | (,,, 020) |
| 50 | Total Net Plant Additions, Net of CIAC (exc | cluding major r | projects) | 207,653,123 | 221,757,463 | 200,898,767 | 212,790,881 | 159,812,680 |
| 51 | , | e | • / | ,, - | , , , , | , -, - | , -, | , , |
| 52 | Last Five-Year Average - Plant Additions, N | Net of CIAC | | | | | To Sch D1 | 200,582,583 |
| | 5 | | | | | | = | |

NOTE (1): Amounts per HECO-WP-D2-002 and the Hawaiian Electric Companies' Exemption From and Modification of General Order No. 7 Paragraph No. 2.3(g), Relating to Capital Improvements Capital Projects Completed in 2017, in Docket No. 03-0257, filed on March 27, 2019.

NOTE (2): Source: UI Planner Budget files: Actuals Scenario. Adjustment to remove non-utility plant additions from utility plant. Chapin UG Duct Line is a non-utility asset. It is a contributed asset that was given to the Company. It is not being used and there are currently no plans to use it.

NOTE (3): See HECO-WP-D2-001 for line 47 - 2018 Major Project CIAC additions, HECO-WP-D2-003 for 2018 CIAC Additions, HECO-WP-D2-004 for 2014 to 2017 CIAC Additions and WP-D1-001 for treatment of CIAC.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF MAJOR CAPITAL PROJECT ADDITIONS, NET OF CIAC

| Line No. | Description (a) | PUC Docket Reference (b) | Estimated In Service Date (c) | Plant Addition Amount (d) | CIAC Amount (e) |
|----------|---|--|-------------------------------|---------------------------|-----------------|
| 1 2 | AES-CEIP #2 138kV OH Trans Line Relocation | Docket No. 2016-0439 (Decision & Order dated 03/02/2018) UI Planner Budget files | Feb-19 | 3,007,232 | |
| 3 4 | West Loch Utility Scale PV | Docket No. 2016-0342 (Decision & Order dated 06/30/2017) UI Planner Budget files | Jun-19 | 52,128,000 | |
| 5 6 | Ala Wai Canal-46kV Relocation | Docket No. 2016-0416 (Decision & Order dated 09/01/2017) UI Planner Budget files | Jun-19 | 13,910,207 | |
| 7 8 | Kakaako Makai | Docket No. 2009-0042 (Decision & Order dated 06/12/2009) UI Planner Budget files | Apr-14 | | (22,683) |
| 9 | Total Major Capital Projects Qua | lifying for 2019 RAM, Net of CIAC | | \$ 69,045,439 | \$ (22,683) |
| 10 | | | | To Sch D1 & F2 | \$ 69,022,756 |

Source: HECO-WP-D3-001

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF ADJUSTED RECORDED DEFERRED INCOME TAXES

| | | DR/(CR) | DR/(CR) | DR/(CR) | |
|---|---|---|--|--|---------------|
| NARIIC Account | Reference | Federal ADIT | State ADIT | Total | |
| | | | | | |
| (a) | (0) | (c) | (u) | (C) | |
| Recorded Deferred Income Tax Balances | | | | | |
| | | | | | |
| Beccineer 51, 2010 Recorded Bulances | | | | | |
| Depreciation Related Account 282 | HECO-WP-D4-001 | (208,764,869) | (35,223,942) | (243,988,811) | |
| Other Deferred Income Taxes | HECO-WP-D4-001 | (33,950,451) | (5,718,989) | (39,669,440) | |
| Total Recorded Deferred Income Taxes | | (242,715,320) | (40,942,931) | (283,658,251) | To Sch D1 |
| | | | | | D-WP-H-001 |
| Adjustments to Recorded Balances: | | | | | |
| • | HECO-WP-D4-002 | 15,698 | 898 | 16,596 | |
| 3 3 1 | HECO-WP-D4-003 | | 427,943 | 1.832,127 | To Sch D1 |
| , , | | , , , , | . ,- | , , | |
| Total Adjustments to Recorded ADIT Balance | ces | 1,419,882 | 428,841 | 1.848.723 | To Sch D1 |
| , | | | - , - | , , , , , , , | |
| Adjusted Recorded ADIT Balances -12/31/18 | | (241,295,438) | (40,514,090) | \$ (281,809,528) | To Sch D1 |
| 3 | | | | | |
| 282 ADIT adjusted for ADIT on Major Project | et | | | | |
| 3 3 | | (208.749.171) | | | |
| | | | 03 | | |
| | Ther Deferred Income Taxes Fotal Recorded Deferred Income Taxes djustments to Recorded Balances: DIT on Major Project excess depreciation DIT on Major Project Interim Recovery Fotal Adjustments to Recorded ADIT Balan djusted Recorded ADIT Balances -12/31/18 | (a) (b) ecorded Deferred Income Tax Balances December 31, 2018 Recorded Balances epreciation Related Account 282 HECO-WP-D4-001 ther Deferred Income Taxes HECO-WP-D4-001 Total Recorded Deferred Income Taxes djustments to Recorded Balances: DIT on Major Project excess depreciation DIT on Major Project Interim Recovery HECO-WP-D4-003 Total Adjustments to Recorded ADIT Balances djusted Recorded ADIT Balances 42 ADIT adjusted for ADIT on Major Project | (a) (b) (c) ecorded Deferred Income Tax Balances December 31, 2018 Recorded Balances epreciation Related Account 282 HECO-WP-D4-001 (33,950,451) Fotal Recorded Deferred Income Taxes (242,715,320) djustments to Recorded Balances: DIT on Major Project excess depreciation HECO-WP-D4-002 15,698 DIT on Major Project Interim Recovery HECO-WP-D4-003 1,404,184 Fotal Adjustments to Recorded ADIT Balances djusted Recorded ADIT Balances -12/31/18 (241,295,438) 82 ADIT adjusted for ADIT on Major Project excess depreciation Line 2 + Line 6 (208,749,171) | (a) (b) (c) (d) ecorded Deferred Income Tax Balances December 31, 2018 Recorded Balances epreciation Related Account 282 HECO-WP-D4-001 (33,950,451) (5,718,989) Total Recorded Deferred Income Taxes (242,715,320) (40,942,931) djustments to Recorded Balances: DIT on Major Project excess depreciation HECO-WP-D4-002 15,698 898 DIT on Major Project Interim Recovery HECO-WP-D4-003 1,404,184 427,943 Total Adjustments to Recorded ADIT Balances 1,419,882 428,841 djusted Recorded ADIT Balances -12/31/18 (241,295,438) (40,514,090) | NARUC Account |

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF ADJUSTED RECORDED EXCESS ADIT REGULATORY LIABILITY

| | | | DR/(CR) Balance | DR/(CR) | DR/(CR) | DR/(CR) Balance | | | Est Bal |
|------|------------------------|-----------|--------------------|-------------|--------------|--------------------|------|--------------|---------------|
| Line | NARUC Account | Reference | at 12/31/17 | Adjustments | Amortization | at 12/31/18 | Life | Amortization | at 12/31/19 |
| | (a) | (b) | (c) | _ | (d) | (e) | (f) | (g) | (h) |
| | | | | | | = (c) + (d) | | | = (e) + (g) |
| 1 | Plant 282 - protected | | (215,702,497) | (7,803,210) | | (223,505,707) | 40 | 5,587,643 | (220,246,249) |
| 2 | Plant 283 - unprotecte | ed | (35,065,867) | | 1,668,881 | (33,396,986) | 15 | 2,337,723 | (31,059,263) |
| 3 | Nonplant 283 - unprot | tected | (23,918,454) | | 3,415,029 | (20,503,425) | 5 | 4,783,679 | (15,719,746) |
| | Total Excess ADIT | | | | | | | | |
| 4 | Regulatory Liability | | (274,686,818) | (7,803,210) | 5,083,910 | (277,406,118) | | 12,709,045 | (267,025,258) |
| | | | Note 1 | | | To Sch D1 | | To Sch E | To Sch D1 |
| | | | | | | | | | Note 3 |

Reconciliation of 12/31/18 Balance:

| Regulatory Liability in GL | GL#25400023/2 | 4 | (278, 155, 753) |
|----------------------------|---------------|------------|-----------------|
| Regulatory Asset in GL | GL#18673900 | 34,112,667 | |
| 2018 Amortization | | 587,116 | |
| | _ | | 34,699,783 |
| | | | (243,455,970) |
| Add: FAS 109 | Note 1 | | (33,950,008) |
| Total Excess ADIT | | | (277,405,978) |
| Total Excess ADIT | Line 4 | | (277,406,118) |
| Remaining Difference | | | 140 |

Note 1: The 12/31/17 balances represent the amortization base presented in Docket 2016-0328 Hawaiian Electric's 2017 Test Year Rate Case Revised Attachment to the Parties' Stipulated Settlement on Remaining Issues, Attachment 2A, filed March 8, 2018 However, this amortization base inadvertently excluded reclassifications recorded at December 31, 2017 between the 2017 unprotected plant 283 excess net regulatory liability and the portion of ASC 740 regulatory assets/liabilities offsetting the related excess deferred income taxes.

Note 2: Amortization began 4/14/2018.

Note 3: Line 1: Plant 282-protected excess deferred balance calculated as follows: [col (e)/col (f)] * (7 months/12 months) + col (e) Amortization begins on 6/1/2019.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF DEPRECIATION & AMORTIZATION RAM ADJUSTMENT

| | | Recorded | | Adjusted | PUC | |
|----------|-----------------------------|---|-----------------|-------------------------------|---------------------|------------------------|
| Lina No | FERC Account | Depreciable/Amort. Balance (Footnote 3) | Adjustments | Depreciable/Amort. Balance | Approved | Annual Agamusl |
| Line No. | (a) | (b) | (Footnote 1) | (d) | Accrual Rate (e) | Annual Accrual (f) |
| | (-) | (-) | (-) | (-) | (-) | (-) |
| 1 | Depreciable Plant | 107.116.270 | | 107.116.270 | 0.01600 | 1.712.060 |
| 2 | 311 | 107,116,270 | (2.422.000) | 107,116,270 | 0.01600 | 1,713,860 |
| 3 4 | 312 314 | 407,080,257 194,394,996 | (3,423,000) | 403,657,257 194,394,996 | 0.02030 | 8,194,242 2,993,683 |
| 5 | 314 | 83,448,693 | | 83,448,693 | 0.01540 0.02430 | 2,027,803 |
| 6 | Tot - Steam | 792,040,216 | (3,423,000) | 788,617,216 | 0.01885 | 14,929,589 |
| 7 | | ,, | (-) -)) | , . , | | , , |
| 8 | 341 | 38,255,922 | | 38,255,922 | 0.00770 | 294,571 |
| 9 | 342 | 17,647,714 | | 17,647,714 | 0.02580 | 455,311 |
| 10 | 343 | 212,348,035 | (142,147,612) | 70,200,423 | 0.03260 | 2,288,534 |
| 11 | 344 | 32,411,015 | | 32,411,015 | 0.01010 | 327,351 |
| 12 | 345 | 34,684,516 | (142 147 (12) | 34,684,516 | 0.02510 | 870,581 |
| 13 14 | Tot - Gas Turb | 335,347,202 | (142,147,612) | 193,199,590 | 0.01263 | 4,236,348 |
| 15 | Tot - Prod | 1,127,387,418 | (145,570,612) | 981,816,806 | | 19,165,937 |
| 16 | 101 1104 | 1,127,507,110 | (115,570,012) | 701,010,000 | | 17,103,737 |
| 17 | 3501 | 3,033,447 | | 3,033,447 | _ | _ |
| 18 | 352 | 41,371,948 | (2,003,490) | 39,368,458 | 0.01600 | 629,895 |
| 19 | 353 | 316,099,319 | (352,190) | 315,747,129 | 0.01860 | 5,872,897 |
| 20 | 354 | 15,336,208 | | 15,336,208 | 0.01480 | 226,976 |
| 21 | 355 | 377,095,780 | | 377,095,780 | 0.03240 | 12,217,903 |
| 22 | 356 | 184,909,083 | (141,971) | 184,767,112 | 0.03270 | 6,041,885 |
| 23 24 | 357 358 | 60,113,518 66,198,742 | | 60,113,518 66,198,742 | 0.01590 0.01730 | 955,805 1,145,238 |
| 25 | 359 | 3,235,054 | | 3,235,054 | 0.01730 | 48,202 |
| 26 | Tot - Transm | 1,067,393,099 | (2,497,651) | 1,064,895,448 | 0.02543 | 27,138,801 |
| 27 | | -,, | (=, ., ., ., ., | -,000,000,000 | ****** | |
| 28 | 3601 | 2,599,051 | | 2,599,051 | 0.02340 | 60,818 |
| 29 | 361 | 26,265,151 | | 26,265,151 | 0.01080 | 283,664 |
| 30 | 362 | 273,453,197 | | 273,453,197 | 0.02020 | 5,523,755 |
| 31 | 363 | 2,957,666 | (24.665.005) | 2,957,666 | 0.03740 | 110,617 |
| 32 | 364 | 245,168,525 | (24,665,897) | 220,502,628 | 0.03390 | 7,475,039 |
| 33 34 | 365 366 | 105,897,935 270,101,616 | | 105,897,935 270,101,616 | 0.04190 0.02190 | 4,437,123 5,915,225 |
| 35 | 367 | 405,492,451 | | 405,492,451 | 0.04980 | 20,193,524 |
| 36 | 368 | 220,837,260 | | 220,837,260 | 0.05200 | 11,483,538 |
| 37 | 369.1 | 59,534,914 | | 59,534,914 | 0.05250 | 3,125,583 |
| 38 | 369.2 | 174,898,002 | | 174,898,002 | 0.04070 | 7,118,349 |
| 39 | 370 | 40,383,030 | | 40,383,030 | 0.02660 | 1,074,189 |
| 40 | Tot - Distr | 1,827,588,798 | (24,665,897) | 1,802,922,901 | 0.03655 | 66,801,423 |
| 41 | T T. O. D. | 2 004 001 007 | (27.1(2.549) | 2.07.010.240 | | 02.040.224 |
| 42 43 | Tot - T & D | 2,894,981,897 | (27,163,548) | 2,867,818,349 | | 93,940,224 |
| 44 | 390 | 67,940,630 | | 67,940,630 | 0.02450 | 1,664,545 |
| 45 | Tot - General | 67,940,630 | _ | 67,940,630 | 0.02450 | 1,664,545 |
| 46 | | ,, | | ,. | | ,,. |
| 47 | Sub-Total | 4,090,309,945 | (172,734,160) | 3,917,575,785 | | 114,770,706 |
| 48 | | | | | | |
| 49 | 3902 (King) | 8,011,075 | | 8,011,075 | 0.03010 | 241,114 |
| 50 | 3902 (CPP) | 2,115,809 | | 2,115,809 | 0.00417 | 8,814 |
| 51 | 3902 (Waterhouse) | 1,517,450 | | 1,517,450 | 0.00000 | 40.020 |
| 52 53 | 3902 (Hon Cl) 3902 (ASB) | 523,097 1,463,127 | | 523,097 1,463,127 | 0.07824 0.06133 | 40,929 89,738 |
| 54 | 3902 (ASB) | 939,475 | | 939,475 | 0.00000 | - |
| 55 | 3902 (PPP) | 372,940 | | 372,940 | 0.11111 | 41,438 |
| | 3902 (Pauahi) | 50,376 | | 50,376 | 0.33333 | 16,792 |
| 56 | 3902 (Tenant Allowance) | 14,131,757 | (14,131,757) | _ | - | |
| 57 | Tot- LH Impr | 29,125,106 | (14,131,757) | 14,993,349 | | 438,824 |
| 58 | | | | | | |
| 59 | 392 | 59,063,238 | | 59,063,238 | 0.06130 | 3,620,576 |
| 60 61 | Utility Total Depreciation | 4,178,498,289 | (186,865,917) | 3,991,632,372 | 0.02844 | 118,830,107 |
| 01 | Canty Total Depreciation | 7,1/0,470,409 | (100,003,71/) | 3,771,034,374 | 0.02044 | 110,030,107 |

| FREC Account Balance (Footnote 3) (Footnote 1) (G) | | | Recorded Depreciable/Amort. | Adjustments | Adjusted Depreciable/Amort. | PUC Approved | |
|---|----------|-----------------------------|-----------------------------|----------------|-----------------------------|-----------------|------------------|
| (c) | Line No. | FERC Account | • | | • | | Annual Accrual |
| Amortizable Plant 26,291,658 26,291,658 0.05000 1.314,583 1.314,583 1.314 1. | | | | | | | |
| Column | 61 | | () | () | () | () | () |
| Tot - Steam 26.291.688 26.291.658 0.05000 1.314.583 | 62 | | 26,291,658 | | 26,291,658 | 0.05000 | 1,314,583 |
| 1 | 63 | Tot - Steam | | - | | 0.05000 | |
| Tot - Gas Turb 20,326,815 | 64 | | | | | | |
| Tot - Prod | 65 | 346 | 20,326,815 | | 20,326,815 | 0.05000 | 1,016,341 |
| Tot - Prod | 66 | Tot - Gas Turb | 20,326,815 | - | 20,326,815 | 0.05000 | 1,016,341 |
| 1 | 67 | | | | | | |
| 70 3911 30,764,654 (14,146) 30,750,508 0,2000 6,150,102 71 3912 3,172,052 3,172,052 0,10000 317,205 72 3913 16,599,312 16,599,312 0,06670 1,107,174 73 393 1,478,752 1,478,752 0,04000 59,150 74 394 390,01,211 390,01,211 0,06670 58,650 75 395 879,317 879,317 0,06670 58,650 76 396 4,479 0, 44,79 0, 06670 58,650 77 397 130,589,670 (240,250) 130,349,420 0,06670 8,694,306 78 398 8,483,472 0,06670 565,348 79 Tot - General 230,972,919 (254,396) 230,718,523 0,08015 18,512,733 80 81 82 83 84,83,472 84, | 68 | Tot - Prod | 46,618,473 | - | 46,618,473 | 0.05000 | 2,330,924 |
| 1 3912 3,172,052 3,172,052 0,1000 3,17,205 72 3913 16,599,312 16,599,312 0,06670 1,107,174 73 393 1,478,752 1,478,752 0,04000 5,91,50 74 394 39,001,211 39,001,211 0,04000 1,50,048 75 395 879,317 879,317 0,05670 58,650 76 396 4,479 4,479 0,05560 2,49 77 397 130,589,670 (240,250) 130,349,420 0,06670 8,694,306 78 398 8,483,472 8,483,472 0,06670 5,65,848 79 Tot - General 230,972,919 (254,396) 230,718,523 0,08015 18,512,733 81 82 83 Utility Total Amortization 277,591,392 (254,396) 277,336,996 0,07509 \$\begin{array}{c c c c c c c c c c c c c c c c c c c | 69 | | | | | | |
| 16,599,312 16,599,312 16,599,312 0.06670 59,150 178 394 39,001,211 39,001,211 0.04000 1,560,048 178 395 879,317 879,317 0.06670 58,650 178 397 130,589,670 (240,250 130,349,420 0.06670 86,694,306 178 398 8,483,472 8,483,472 0.06670 655,348 179 Tot - General 230,972,919 (254,396) 230,718,523 0.08015 18,512,733 188 398 8,483,472 30,000,670 30,000,670 30,553,48 189 TOT - General 230,972,919 (254,396) 230,718,523 0.08015 18,512,733 180 381 382 383 383,483,472 383,472 | 70 | 3911 | 30,764,654 | (14,146) | 30,750,508 | 0.20000 | 6,150,102 |
| 3 393 | 71 | 3912 | 3,172,052 | | 3,172,052 | 0.10000 | 317,205 |
| 74 394 39,001,211 39,001,211 0,04000 1,500,048 75 395 879,317 879,317 0,06670 58,650 0,06670 396 4,479 0,05500 249 77 397 130,589,670 (240,250) 130,349,420 0,06670 8,694,306 366,348 79 Tot - General 230,972,919 (254,396) 230,718,523 0,08015 18,512,733 80 8 8,483,472 | 72 | 3913 | 16,599,312 | | 16,599,312 | 0.06670 | 1,107,174 |
| 75 395 879,317 879,317 0.06670 58,650 76 396 4,479 4,479 4,479 0.05560 249 77 397 130,889,670 (240,259) 130,349,420 0.06670 8,694,306 78 398 8,483,472 0.06670 565,548 79 Tot - General 230,972,919 (254,396) 230,718,523 0.08015 18,512,733 80 81 82 83 Utility Total Amortization 277,591,392 (254,396) 277,336,996 0.07509 \$20,843,656 \$85 \$10,759 \$10, | 73 | 393 | 1,478,752 | | 1,478,752 | 0.04000 | 59,150 |
| 75 395 879,317 879,317 0.06670 58,650 76 396 | 74 | 394 | 39,001,211 | | 39,001,211 | 0.04000 | 1,560,048 |
| 76 396 | 75 | 395 | | | | | |
| 78 397 130,889,670 (240,250) 130,349,420 0.06670 8,694,306 78 398 8,483,472 0.06670 \$65,548 79 Tot - General 230,972,919 (254,396) 230,718,523 0.08015 18,512,733 80 81 82 82 83 Utility Total Amortization 277,591,392 (254,396) 277,336,996 0.07509 \$20,843,656 \$84 \$85 TOTAL RAM DEPRECIATION / AMORTIZATION Line 61 + Line 83 \$139,673,763 \$86 LESS: Vehicle Depreciation (A/C 392 above) Line 59 \$3,042,0576 \$87 LESS: ADIT Excess Amortization in Current Revenues Footnote 2 \$1,20665,885 \$1,207,376 \$1,207,3 | 76 | 396 | | | | | |
| Total General 230,972,919 (254,396) 230,718,523 0.08015 18,512,733 18 | | | | (240.250) | | | |
| Tot - General 230,972,919 (254,396) 230,718,523 0.08015 18,512,733 80 81 82 82 83 Utility Total Amortization 277,591,392 (254,396) 277,336,996 0.07509 \$20,843,656 84 85 TOTAL RAM DEPRECIATION / AMORTIZATION Line 61 + Line 83 \$139,673,763 86 LESS: Vehicle Depreciation (A/C 392 above) Line 59 \$3,620,576 \$1 LESS: ADDIT Excess Amortization Current Revenues Footnote 2 \$120,665,588 \$1 LESS: Depreciation & Amortization in Current Revenues Schedule CLine 5 \$1 (12,709,045) \$1 RAM Adjustment for Depreciation & Amortization Note 5 \$2,678,556 \$1,0975 \$2,478,556 \$1,0975 \$1,0 | | | | (=,=) | | | |
| State Stat | | | | (254 396) | | | |
| Section Sect | | Tot General | 230,772,717 | (251,570) | 250,710,525 | 0.00015 | 10,512,755 |
| No. | | | | | | | |
| Validity Total Amortization 277,591,392 (254,396) 277,336,996 0.07509 \$ 20,843,656 84 85 TOTAL RAM DEPRECIATION / AMORTIZATION Line 61 + Line 83 \$ 139,673,763 \$ 1 Line 59 \$ (3,620,576) \$ 1 Line 59 \$ (3,620,576) \$ 1 Line 59 \$ (3,620,576) \$ 2 Line 59 \$ (3,620,576) \$ 2 Line 59 \$ (3,620,576) \$ 2 Line 59 \$ (12,709,045) \$ 2 Line | | | | | | | |
| Section | | Utility Total Amortization | 277 591 392 | (254 396) | 277 336 996 | 0.07509 | \$ 20.843.656 |
| Signature Content Co | | Cunty Total Amortization | 277,371,372 | (254,570) | 211,530,770 | 0.07507 | 3 20,043,030 |
| LESS: Vehicle Depreciation (A/C 392 above) | | TOTAL BAM DEDDECTA | TION / AMORTIZATION | т | т:: | 61 Ti 92 | e 120 (72 7(2 |
| RESS: ADIT Excess Amortization Current Revenues Footnote 2 Cit. 709,045 September Cit. 709,045 September Footnote 3 Cit. 709,045 September | | | | · | LII | | |
| RAM Adjustment for Depreciation & Amortization RAM Adjustment for Depreciation & Amortization RAM Adjustment for CIAC Amortization RAM Adjustment for CIAC Amortization RAM Adjustment for CIAC Amortization RAM Adjustment for Depreciation & Amortization RAM Adjustment for CIAC Amortization RAM | | • | | | | | |
| 89 RAM Adjustment for Depreciation & Amortization 90 RAM Adjustment for CIAC Amortization 91 RAM Adjustment for CIAC Amortization 92 Total RAM Adjustment for Depreciation & Amortization 93 Times: Factor for Revenue Taxes 94 P5 RAM DEPRECIATION & AMORTIZATION 95 RAM DEPRECIATION & AMORTIZATION 96 P1 | | | | | | | |
| RAM Adjustment for Depreciation & Amortization Note 5 S C C C Pand RAM Adjustment for CIAC Amortization Note 5 S C Pand RAM Adjustment for Depreciation & Amortization Schedule C Line 5 1.0975 Pand RAM Adjustment for Depreciation & Amortization Schedule C Line 5 1.0975 Pand RAM DEPRECIATION & AMORTIZATION Pand In Service From D1 Pand Ram Barre recorded (in \$000s), except for the following adjustments (see HECO-WP-D2-001): ERP EAM Hardware HECO-WP-D2-001 S C Pand Robert Schofield Generating Station HECO-WP-D2-001 S C Pand Robert Schofield Generating Station MPIR - Schofield Generating Station GL# 10100001 S C Pand Robert Schofield Generating Station GL# 10100001 G G Pand Robert Schofield Generating Scho | | LESS: Depreciation & Amo | ortization in Current Rever | nues | | Footnote 2 | \$ (120,665,585) |
| RAM Adjustment for CIAC Amortization 1 | | | | | | | |
| Total RAM Adjustment for Depreciation & Amortization Schedule C Line 5 1.0975 | | | | | | | |
| Times: Factor for Revenue Taxes Schedule C Line 5 1.0975 | | | | | | Note 5 | |
| See Decision and Order No. 35768, Docket No. 2018-0075 filed October 16, 2018 | | | | tion | | | ,, |
| See Decision and Order No. 35768, Docket No. 2018-0075 filed October 16, 2018 | | Times: Factor for Revenue | Taxes | | Sch | nedule C Line 5 | 1.0975 |
| To Sch Al To Sch Al | | | | | | | |
| Amounts are recorded (in \$000s), except for the following adjustments (see HECO-WP-D2-001): ERP EAM Hardware HECO-WP-D2-001 | 95 | RAM DEPRECIATION & | AMORTIZATION | | | | |
| Amounts are recorded (in \$000s), except for the following adjustments (see HECO-WP-D2-001): ERP EAM Hardware Koolau-Wailupe #1 Str 30 P9 Replace MPIR - Schofield Generating Station MPIR - Schofield Generating Station MPIR - Schofield Generating Station See Decision and Order No. 35768, Docket No. 2018-0075 filed October 16, 2018 Fenant Improvement Allowance (see Footnote 4) ARO Assets included in Depreciable Plant Total Depreciation & Amortization in Current Revenues*: Total Depreciation LESS: Vehicle Depreciation (A/C 392) LESS: Amortization of Excess ADIT Total Depreciation in Current Revenues ADD: CIAC Amortization Note 5 Plant in Service From D1 (14) Linked from Sch D1 See Decision and Order No. 35768, Docket No. 2018-0075 filed October 16, 2018 Filed October 16, 2018 See Decision and Order No. 35768, Docket No. 2018-0075 filed October 16, 2018 (14,132) (3,423) (3,590,000) LESS: Amortization of Excess ADIT (7,121,415) Total Depreciation in Current Revenues See Decision and Order No. 35768, Docket No. 2018-0075 filed October 16, 2018 (14,132) (3,423) (3,590,000) LESS: Amortization of Excess ADIT (7,121,415) Total Depreciation in Current Revenues See Decision and Order No. 35768, Docket No. 2018-0075 filed October 16, 2018 | | | | | | | To Sch A1 |
| From D1 Linked from Sch D1 | Footnote | es: | | | | | |
| ERP EAM Hardware HECO-WP-D2-001 \$ (14) | | Amounts are recorded (in § | \$000s), except for the | | Plant in Service | | |
| Koolau-Wailupe #1 Str 30 P9 Replace (142) MPIR - Schofield Generating Station (144,744) Joint Pole Capital Transfer Price (24,666) Tenant Improvement Allowance (see Footnote 4) (14,132) ARO Assets included in Depreciable Plant (3,423) Total (187,121) 2 Depreciation & Amortization in Current Revenues*: Depr/Amort Expense Total Depreciation (A/C 392) (3,590,000) LESS: Vehicle Depreciation (A/C 392) (7,121,415) Total Depreciation in Current Revenues (7,121,415) Total Depreciation in Current Revenues (8,309,000) LESS: Amortization of Excess ADIT (8,309,000) Total Depreciation in Current Revenues (8,309,000) LESS: Amortization of Excess ADIT (8,309,000) Total Depreciation in Current Revenues (8,309,000) | 1 | following adjustments (see | HECO-WP-D2-001): | | From D1 | | |
| Koolau-Wailupe #1 Str 30 P9 Replace (142) MPIR - Schofield Generating Station (144,744) Joint Pole Capital Transfer Price (24,666) Tenant Improvement Allowance (see Footnote 4) (14,132) ARO Assets included in Depreciable Plant (3,423) Total (187,121) 2 Depreciation & Amortization in Current Revenues*: Depr/Amort Expense Total Depreciation (A/C 392) (3,590,000) LESS: Vehicle Depreciation (A/C 392) (7,121,415) Total Depreciation in Current Revenues (7,121,415) Total Depreciation in Current Revenues (8,309,000) LESS: Amortization of Excess ADIT (8,309,000) Total Depreciation in Current Revenues (8,309,000) LESS: Amortization of Excess ADIT (8,309,000) Total Depreciation in Current Revenues (8,309,000) | | ERP EAM Hardware | | HECO-WP-D2-001 | \$ (14) | Linked from Sc | h D1 |
| MPIR - Schofield Generating Station | | | P9 Replace | | . , | | |
| See Decision and Order No. 35768, Docket No. 2018-0075 | | • | • | | | | |
| 35768, Docket No. 2018-0075 filed October 16, 2018 | | mi ir benenela ceneral | ing Station | | (111,711) | See Decision at | nd Order No |
| Joint Pole Capital Transfer Price | | | | | | | |
| Tenant Improvement Allowance (see Footnote 4) ARO Assets included in Depreciable Plant GL# 10100001 (3,423) Total S (187,121) | | Joint Pole Capital Transfer | r Price | | (24 666) | | |
| ARO Assets included in Depreciable Plant Total 2 | | • | | | | inea october re | , 2010 |
| Total \$ (187,121) | | • | | GI # 10100001 | | | |
| 2 Depreciation & Amortization in Current Revenues*: Depr/Amort Expense Total Depreciation \$ 139,686,000 LESS: Vehicle Depreciation (A/C 392) (3,590,000) LESS: Amortization of Excess ADIT (7,121,415) Total Depreciation in Current Revenues \$ 128,974,585 ADD: CIAC Amortization Note 5 (8,309,000) | | | epreciable I lant | GL# 10100001 | | V | |
| Total Depreciation \$ 139,686,000 LESS: Vehicle Depreciation (A/C 392) (3,590,000) LESS: Amortization of Excess ADIT (7,121,415) Total Depreciation in Current Revenues \$ 128,974,585 ADD: CIAC Amortization Note 5 (8,309,000) | | 1 otal | | | ψ (107,121) | | |
| Total Depreciation \$ 139,686,000 LESS: Vehicle Depreciation (A/C 392) (3,590,000) LESS: Amortization of Excess ADIT (7,121,415) Total Depreciation in Current Revenues \$ 128,974,585 ADD: CIAC Amortization Note 5 (8,309,000) | 2 | D | : Cumant Davanua.*. | | Dans/Assest Essesses | | |
| LESS: Vehicle Depreciation (A/C 392) (3,590,000) LESS: Amortization of Excess ADIT (7,121,415) Total Depreciation in Current Revenues \$ 128,974,585 ADD: CIAC Amortization Note 5 (8,309,000) | 2 | - | on in Current Revenues": | | | | |
| LESS: Amortization of Excess ADIT (7,121,415) Total Depreciation in Current Revenues \$ 128,974,585 ADD: CIAC Amortization Note 5 (8,309,000) | | | ting (A/C 202) | | | | |
| Total Depreciation in Current Revenues \$ 128,974,585 ADD: CIAC Amortization Note 5 (8,309,000) | | - | | | | | |
| ADD: CIAC Amortization Note 5 (8,309,000) | | | | | | | |
| | | | | Nat. 5 | | | |
| | | | | | 120,665,585 | To Line 88 | |

*See Order No. 35335, in Docket No. 2016-0328, For Approval of General Rate Case and Revised Schedules/Rules, filed on March 9, 2018, in which the Commission accepted the Parties' Stipulated Settlement on Remaining Issues filed March 5, 2018, HECO T-25, Attachment 1, Page 1 and the Revised Attachment to the Parties Stipulated Settlement on Remaining Issues, filed March 8, 2018, HECO T-26, Attachment 2A, Page 1. Approved in Final Decision and Order No. 35545, filed June 22, 2018.

120,665,585

To Line 88

3 Per Accounting records, does not include land amounting to \$40,449,426 as of December 31, 2018.

Total Depreciation & Amortization in Current Revenues

- 4 Amount represents tenant improvement allowances paid by the lessors and excluded from the RAM calculation.
- Effective October 2018, the Company reclassified CIAC to Plant in Service or CWIP consistent with FERC guidelines. Amounts shown in this Schedule represent balances net of CIAC.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF CHANGE IN DEFERRED INCOME TAXES

| | | | Projected ADIT |
|----------|--|----------------|------------------------|
| Line No. | NARUC Account | Reference | Change |
| | (a) | (b) | (c) |
| 1 | State Tax Depreciation | Schedule F1 | 20,239,341 |
| 2 | Amortization of Excess Deferreds | Schedule D5 | 10,380,860 |
| 3 | Subtotal | | 30,620,201 |
| 4 | Effective Federal Tax Rate | HECO-WP-F-001 | 19.7368% |
| 5 | Federal Deferred Tax on State Tax Depreciation | | 6,043,461 |
| 6 | Add back State Tax Depreciation | Line 1 | (20,239,341) |
| 7 | Federal Tax Depreciation | Schedule F1 | 20,239,341 |
| 8 | Federal/State Difference | | - |
| 9 | Tax Rate on Federal Only Adjustment | HECO-WP-F-001 | 21% |
| 10 | Federal Deferred Tax Adjustment | | - |
| 11 | Total Federal Deferred Taxes Before Proration | | 6,043,461 |
| 12 | Proration Adjustment | HECO-WP-F1-003 | (659,544) |
| 13 | Total Federal Deferred Taxes After Proration | | 5,383,917 |
| | STATE DEFERRED TAXES | | |
| 14 | State Tax Depreciation | Line 1 | 20,239,341 |
| 15 | Amortization of Excess Deferreds | Line 2 | 10,380,860 |
| 16 | Subtotal | | 30,620,201 |
| 17 | Effective State Tax Rate | HECO-WP-F-001 | 6.0150% |
| 18 | Total State Deferred Taxes | | 1,841,817 |
| 19 | TOTAL FED AND STATE DEFERRED TAXES | | 7,225,733 To Sch D1 |

NOTE 1: In accordance with the tariff, the change in ADIT in the RAM year is based on the temporary book/tax depreciation differences associated with the RAM year plant additions (major capital projects and baseline plant additions). It does not include any estimated ADIT related to the repairs deduction or CIAC on RAM year plant additions.

NOTE 2: The change in ADIT includes the tax effect of the amortization of the regulatory liability associated with the excess deferred taxes resulting from the tax rate change from the Tax Cuts and Jobs Act of 2017. This is consistent with the inclusion of the regulatory liability and the related amortization in rate base RAM.

NOTE 3: The amortization of excess deferreds was adjusted from Schedule D5 to properly reflect the ending balance of ADIT at 12/31/2019. The amortization of the Plant 282 excess deferred amortization begins on 6/1/2019; the 12/31/2019 balance therefore reflects 7/12ths of this component in the ending ADIT balance.

| Calculation of Excess Deferred Amortization | | | |
|---|-----------|-------------|-------------|
| Plant 282 - protected | 5,587,643 | Schedule D5 | |
| Proration Percentage (7 months/12 months) | 58.33% | | |
| | | 3,259,458 | |
| Plant 283 - unprotected | | 2,337,723 | Schedule D5 |
| Nonplant 283 - unprotected | | 4,783,679 | Schedule D5 |
| Amortization of Excess Deferreds, as Adjusted | | 10,380,860 | |
| | | Schedule D1 | |

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TAX DEPRECIATION

| Image Property S 6,092 6,092 6,092 2,24% 2,24% 2,47% 2,47% 2,47% 2,47% 3,047 3,047 | Computers/PV | | | | Ш | ECO-WP-F1-0 | 22 | | | | | | | | | |
|--|--|-----------|--------------|------|---------------|----------------|-----------|---------------|----------------|-------------------|---------------------------|-------------|-------------|---------------------|-------------|---------------|
| ComputersPV 5 6,092 6,092 2,54% 2,54% 2,47% | ComputersPY | Line No | | LIFE | | | | PROJECTS PE | ROGRAMS | TOTAL. | | | | | | |
| 1 Computers/PV 5 6,092 6,092 2,54% 2,54% 2,47% 3 200 3 200 3 247% 2 200 4 200 4 200 4 200 4 200 4 200 4 200 4 200 4 200 4 200 4 200 4 200 4 200 4 200 200 4 200 200 4 200 200 4 200 200 200 4 200 | Computers/PV 5 6.092 6.092 2.54% 2.54% 2.47% 2.47% 2.47% 2.47% 2.47% 2.47% 3.07Em/forlast 7 5.022 5.020 5.020 5.020 5.020% 4.095% 4.095% 4.005% 5.005% 4.005% 5.005% 4.005% 5.005% 4.005% 5.005% 4.005% 5.005% 4.005% 5.005% 4.005% 5.005% 4.005% 5.005% 4.005% 5.005% 4.005% 5.005% 4.005% 5.005% 4.005% 5.005% 4.005% 5.005% 4.005% 5.005% 4.005% 5.005% 4.005% 5.005% 4.005% 5. | Dine 110. | • | | | | | | | | | | | | | |
| 2 Communication 20 5,920 5,920 2,47% 2,47% 3 00Fem Trobal 7 5,022 2,09% 2,09% 2,09% 4 Distribution 20 130,472 130,472 543,8% 543 | 2 Communication 20 5,920 5,920 2,47% 2,47% 3 00Fm Tools 7 5,022 2,09% 2,29% 2,29% 2,29% 3,36% 51,83% | | | (-) | (-) | (-) | (-) | (-) | (-) | (8) | | | | | | |
| 2 Communication 20 5,920 5,920 2,47% 2,47% 3 00Fem Trobal 7 5,022 2,09% 2,09% 2,09% 4 Distribution 20 130,472 130,472 543,8% 543 | 2 Communication 20 5,920 5,920 2,47% 2,47% 3 00Fm Tools 7 5,022 2,09% 2,29% 2,29% 2,29% 3,36% 51,83% | 1 | Computers/PV | 5 | 6.092 | | 6.092 | 2.54% | | 2.54% | | | | | | |
| 3 OFFFirmTools 7 5,022 5,022 2,09% 2,09% 4 Distribution 20 13,0472 13,0472 54,38% 54,38% 5 Land - 816 816 0,34% 0,34% 6 Non-Steam Production 15 3,713 3,713 1,57% 1,55% 7 Steam Production 20 22,905 22,905 9,55% 8 Structural 39 3,265 3,265 1,36% 1,106% 9 Transmission 20 21,834 21,834 9,10% 9,10% 10 Transmission 15 34,674 34,674 44,55% 1,45% 11 Vehicles - 5,209 5,209 2,17% 2,17% 12 TOTAL 22,922 22,922 7 From 3ch D2 5 yr 2,09% 2,09% 2,09% 15 yr 16,00% 16,00% 10,000% 15 yr 15 yr 1,00% 16,00% 10,000% 15 yr 1,00% 1,000% 1,000% 15 yr 1,000% 0,000% 1,000% 16 yr 1,000% 0,000% 0,000% 0,000% 17 Total 2,00% 2,00% 2,00% 18 sis subject to regular depreciation 19 syr 1,000% 1,000% 1,000% 1,000% 10 syr 1,0 | 3 Off-mirrolos 7 5,022 5,022 2,09% 2,09% 4 Distribution 20 13,0472 13,0472 51,38% 54,38% 5 Land - 816 816 0.34% 0.34% 6 Non-Steam Production 15 3,713 3,713 1.55% 1.55% 7 Steam Production 20 22,905 22,905 9,55% 9,55% 8 Structural 30 3,265 3,265 3,265 1.36% 1.36% 9 Transmission 20 21,834 21,834 91,19% 91,19% 10 Transmission 15 34,673 34,874 144,87% 144,5% 144,5% 11 Vahicles - \$3,200 5,209 2.17% 2.17% 2.17% 12 TOTAL | 2 | 1 | | | | | | | | | | | | | |
| Distribution 20 13.0472 13.0472 54.38% 54.38% 5 Land Non-Steam Production 15 3.713 3.713 1.55% 1.55% 8 Non-Steam Production 15 3.713 3.713 1.55% 1.55% 9 Tanssmission 20 21.905 22.905 22.905 1.36% 1.36% 10 Transmission 15 34.674 34.674 14.45% 14.45% 14.45% 11 Vehicles - 5.209 5.209 2.509 2.009 1.00.00% 100.00% 12 TOTAL | Startbution 20 130472 130472 54.58% 54.38% | | | | | | | | | | | | | | | |
| S Land | S Land | 4 | | | | | | | | | | | | | | |
| 6 Non-Steam Production 15 3,713 3,313 1,55% 1,55% 1,55% 5 1,55% 6 1,55% 1,55% 8 Structural 20 22,905 22,905 9,55% 9,55% 9,55% 9,55% 9,55% 9,10% 9,10% 1,042,04 1,45% 1,45% 1,45% 1,45% 1,45% 1,445% 1,445% 1,445% 1,45% | 6 Non-Steam Production 20 22905 22905 955% 955% 955% 955% 955% 955% 955% 9 | 5 | | _ | | | | | | | | | | | | |
| Start Production 20 22.905 22.905 9.55% 9.55% | Seam Production 20 22,905 22,905 9.55% 9.55% 9.55% 9.55% 9.55% 9.55% 9.55% 9.55% 9.55% 9.55% 9.50% 9.1 | | | 15 | | | | | | | | | | | | |
| 8 Structural 39 3.265 3.265 1.36% 1.36% 9.10% 9.10% 9.10% 1.0000% 1.0000% 1.0000% 1.0000% 1.0000% 1.000% 1.000% 1.000% 1.000% 1.000% 1.000% 1.000% 1.000% 1. | 8 Smetural 39 3.265 3.265 1.36% 1.36% 1.90% 1.000% 1.000 1.0 | | | | | | | | | | | | | | | |
| 9 Transmission 20 21,834 21,834 9,10% 9,10% 14,45% | 9 Transmission 20 21.834 21.834 9.10% 9.10% 9.10% 14.54% 14.45% | 8 | | | | | | | | | | | | | | |
| 10 Transmission 15 34,674 34,674 34,47% 14.45% 14. | 10 Transmission 15 34,674 34,674 34,47% 14.45% 14. | | | | | | | | | | | | | | | |
| 11 Vehicles | 11 Vehicles | | | | | | | | | | | | | | | |
| 12 TOTAL | 12 TOTAL | | | - | | | | | | | | | | | | |
| From Sch D2 | From Sch D2 | | · cincies | | 2,203 | | 5,205 | 2.17,70 | | 2.1770 | | | | | | |
| Syr 2.54% 2.54% 2.54% 2.69% | S yr 2.54% | 12 | TOTAL | | 239,922 | - | 239,922 | 100.00% | 0.00% | 100.00% | | | | | | |
| Syr 2.54% 2.54% 2.54% 2.69% | S yr 2.54% | | | | | | | | | | | | | | | |
| Tyr | 7 yr | | | | | | 5 vr | 2.54% | | 2.54% | | | | | | |
| 15 yr 16.00% 16.00% 175.50% 7 | 15 yr | | | | | | | | | | | | | | | |
| 20 yr 75.50% 75.50% 1.36% 1. | 20 yr | | | | | | | | | | | | | | | |
| 1.36% 1.36% 1.36% 1.36% 2.17 | 1.36% 1.36% 1.36% 1.36% 1.36% 1.36% 1.34 | | | | | | • | | | | | | | | | |
| Land Vehicles 2.17% 2.17% 2.17% 100.00% 100.00% 100.00% 10. | Land Vehicles 2.17% 2.17% 2.17% 2.17% 3.21% 3.48 | | | | | | | | | | | | | | | |
| Vehicles 7 total 100.00% 100 | Vehicles Total Vehicles Ve | | | | | | | | | | | | FED | FED | STATE | STATE |
| Total 100.00% 0.00% 100.00% | Total 100.00% 100.00 | | | | | | | | | | | | | | | |
| Subject to regular depreciation Syr 2.54% 2.54% 5 yr 5.211,519 20.00% 1,042,304 20.00% 1,042,304 7 yr 2.09% 2.09% 2.09% 7 yr 4.296,167 14.29% 613,922 14.29% 14.29% 14.29% 14.29% 14.29% 14.29% 14.29% 14.29% 14.29% 14.29% 14.29% 14.29% 14.29% 14.29% 14. | Syr 2.54% 2.54% 5 yr 5.211,519 20.00% 1,042,304 20.00% | | | | | | | | 0.00% | | | BASIS | | | | |
| Syr 2.54% 2.54% 5 yr 5,211,519 20.00% 1,042,304 20.00% 1,042,304 7 yr 2.09% 2.09% 7 yr 4,296,167 14.29% 613,922 14.29% 613,922 15 yr 16.00% 16.00% 15 yr 32,838,900 5.00% 1,641,945 5.00% 1,641,945 5.810,700 37.50% 75.50% 75.50% 75.50% 75.50% 39 yr 154,952,011 3.75% 5,810,700 37.5% 5,810,7 | Syr 2.54% 2.54% 5 yr 5.211,519 20.00% 1,042,304 20.00% 1,041,945 20.00% 1,041,945 20.00% 1,041,945 20.00% 1,041,945 20.00% 2,040,945 20.00% | | | | | | | | | | | | | | | |
| Syr 2.54% 2.54% 5 yr 5,211,519 20.00% 1,042,304 20.00% 20 | 5 yr 2.54% 2.54% 5 yr 5.211,519 20.00% 1,042,304 20.00% 1,042,304 20.00% 1,042,304 20.00% 1,042,304 20.00% 1,042,304 20.00% 1,042,304 20.00% 1,042,304 20.00% 1,042,304 20.00% 1,042,304 20.00% 1,042,304 20.00% 613,922 14.29% | | | | | | | | | Vintage 2019 - R | egular Depreciation | | | | | |
| Tyr 2.09% 2.09% 7yr 4,296,167 14.29% 613,922 14.29% 613,922 15 yr 16.00% 16.00% 15 yr 32,838,900 5.00% 1,641,945 5.00% 1,641,945 20 yr 75.50% 20 yr 154,952,011 3.75% 5,810,700 | 7 yr | | | | Basis subject | to regular dep | reciation | | | - | - | | | | | <u> </u> |
| Tyr 2.09% 2.09% 7yr 4,296,167 14.29% 613,922 14.29% 613,922 15 yr 16.00% 16.00% 15 yr 32,838,900 5.00% 1,641,945 5.00% 1,641,945 20 yr 75.50% 20 yr 154,952,011 3.75% 5,810,700 | 7 yr | | | | | | | | | | | | | | | |
| 15 yr | 15 yr | | | | | | • | | | | | | | | | |
| 20 yr 75.50% 75.50% 20 yr 154,952,011 3.75% 5,810,700 3.75% 5,810,700 39 yr 1.36% 1.36% 39 yr 2,793,107 1.177% 32,875 1.177% 32,875 32,875 1.177% 32,8 | 20 yr 75.50% 75.50% 20 yr 154,952,011 3.75% 5,810,700 3.75% 5,810,700 3.75% 5,810,700 3.75% 5,810,700 3.9 yr 1.36% 3.9 yr 2,793,107 1.177% 32,875 1.177% 32,875 32,875 1.177% 1.177% | | | | | | | | | | | | | | | |
| 1.36% 1.36% 39 yr 2,793,107 1.17% 32,875 1.177% 32,875 | 1.36% 1.36% 39 yr 2,793,107 1.177% 32,875 1.177% 32,875 3 | | | | | | • | | | | • | | | | | |
| TOTAL ASSETS 97.49% 0.00% 97.49% | TOTAL ASSETS 97.49% 0.00% 97.49% | | | | | | • | | | | • | | | | | |
| Net Depreciable Baseline Plant Adds 200,091,704 9,141,746 9,141,746 9,141,746 | Net Depreciable Baseline Plant Adds Net Depreciable Baseline Plant Adds September 2 September 3 September 4 Septembe | | | | | | 39 yr | | | | 39 yr | 2,793,107 | 1.177% | 32,875 | 1.177% | 32,875 |
| Net Depreciable Baseline Plant Adds 200,091,704 9,141,746 9,141,746 Major Capital Projects from Schedule F2 69,045,439 11,097,595 11,097,595 Total Depreciable Plant Adds 269,137,143 20,239,341 20,239,341 Fed Tax Depreciation to Schedule F Reconciliation from Baseline Plant Adds to Net Depreciable Plant Adds (rounded) 239,922,000 Schedule D2 Baseline Capital Projects Plant Adds (rounded) 239,922,000 Schedule D2 Less: Repairs deduction HECO-WP-F1-001 pg 1 34,676,093 <supported by="" each="" special="" study="" td="" year.<=""></supported> | Net Depreciable Baseline Plant Adds 200,091,704 9,141,746 9,141,746 Major Capital Projects from Schedule F2 69,045,439 11,097,595 11,097,595 Total Depreciable Plant Adds 269,137,143 20,239,341 20,239,341 Fed Tax Depreciation to Schedule F Reconciliation from Baseline Plant Adds to Net Depreciable Plant Adds : Baseline Capital Projects Plant Adds (rounded) 239,922,000 Schedule D2 Less: Repairs deduction HECO-WP-F1-001 pg 1 34,676,093 <supported by="" each="" special="" study="" td="" year.<=""></supported> | | | | | | | 97.49% | 0.00% | 97.49% | | | | | | |
| Net Depreciable Baseline Plant Adds 200,091,704 9,141,746 9,141,746 Major Capital Projects from Schedule F2 69,045,439 11,097,595 11,097,595 Total Depreciable Plant Adds 269,137,143 20,239,341 20,239,341 Fed Tax Depreciation to Schedule F Reconciliation from Baseline Plant Adds to Net Depreciable Plant Adds (rounded) 239,922,000 Schedule D2 Baseline Capital Projects Plant Adds (rounded) 239,922,000 Schedule D2 Less: Repairs deduction HECO-WP-F1-001 pg 1 34,676,093 <supported by="" each="" special="" study="" td="" year.<=""></supported> | Net Depreciable Baseline Plant Adds 200,091,704 9,141,746 9,141,746 Major Capital Projects from Schedule F2 69,045,439 11,097,595 11,097,595 Total Depreciable Plant Adds 269,137,143 20,239,341 20,239,341 Fed Tax Depreciation to Schedule F Reconciliation from Baseline Plant Adds to Net Depreciable Plant Adds : Baseline Capital Projects Plant Adds (rounded) 239,922,000 Schedule D2 Less: Repairs deduction HECO-WP-F1-001 pg 1 34,676,093 <supported by="" each="" special="" study="" td="" year.<=""></supported> | | | | | | | | | | | | | | | |
| Major Capital Projects from Schedule F2 Total Depreciable Plant Adds Total Depreciable Plant Ad | Major Capital Projects from Schedule F2 69,045,439 69,045,439 11,097,595 11,097,595 Total Depreciable Plant Adds 269,137,143 20,239,341 20,239,341 20,239,341 20,239,341 20,239,341 20,239,341 20,239,344 20,239,349,349,349,349,349,349,349,349,349,3 | | | | | TOT | AL ASSETS | 97.49% | 0.00% | 97.49% | | | | | | |
| Major Capital Projects from Schedule F2 Total Depreciable Plant Adds Total Depreciable Plant Ad | Major Capital Projects from Schedule F2 69,045,439 69,045,439 11,097,595 11,097,595 Total Depreciable Plant Adds 269,137,143 20,239,341 20,239,341 20,239,341 20,239,341 20,239,341 20,239,341 20,239,344 20,239,349,349,349,349,349,349,349,349,349,3 | | | | | | | | | | | 200 001 701 | | 0.144.546 | | 0.141.516 |
| Total Depreciable Plant Adds Total | Total Depreciable Plant Adds Total | | | | | | | Net Deprecial | ole Baseline I | Plant Adds | | 200,091,704 | | 9,141,746 | | 9,141,746 |
| Total Depreciable Plant Adds Total | Total Depreciable Plant Adds Total | | | | | | | Major Canital | Drainata fran | n Sahadula E2 | | 60 045 420 | | 11 007 505 | | 11 007 505 |
| Reconciliation from Baseline Plant Adds to Net Depreciable Plant Adds: Baseline Capital Projects Plant Adds (rounded) Less: Repairs deduction HECO-WP-F1-001 pg 1 Adds (rounded) Adds (| Reconciliation from Baseline Plant Adds to Net Depreciable Plant Adds: Baseline Capital Projects Plant Adds (rounded) Less: Repairs deduction HECO-WP-F1-001 pg 1 34,676,093 Ted Tax Depreciation to Schedule F 239,922,000 Schedule D2 Schedule D2 Schedule D2 Schedule D2 Schedule D2 Schedule D2 | | | | | | | | | | | | | | - , | |
| Reconciliation from Baseline Plant Adds to Net Depreciable Plant Adds: Baseline Capital Projects Plant Adds (rounded) 239,922,000 Schedule D2 Less: Repairs deduction HECO-WP-F1-001 pg 1 34,676,093 < supported by Special Study each year. | Reconciliation from Baseline Plant Adds to Net Depreciable Plant Adds: Baseline Capital Projects Plant Adds (rounded) Less: Repairs deduction The Schedule F to Schedul | | | | | | | Total Depreci | abie Fiant Ac | ius | | 209,137,143 | - | -,,- | | |
| Reconciliation from Baseline Plant Adds to Net Depreciable Plant Adds : Baseline Capital Projects Plant Adds (rounded) 239,922,000 Schedule D2 Less: Repairs deduction HECO-WP-F1-001 pg 1 34,676,093 < supported by Special Study each year. | Reconciliation from Baseline Plant Adds to Net Depreciable Plant Adds: Baseline Capital Projects Plant Adds (rounded) 239,922,000 Schedule D2 Less: Repairs deduction HECO-WP-F1-001 pg 1 34,676,093 <=supported by Special Study each year. | | | | | | | | | | | | | | ciation | - |
| Baseline Capital Projects Plant Adds (rounded) 239,922,000 Schedule D2 Less: Repairs deduction HECO-WP-F1-001 pg 1 34,676,093 < supported by Special Study each year. | Baseline Capital Projects Plant Adds (rounded) 239,922,000 Schedule D2 Less: Repairs deduction HECO-WP-F1-001 pg 1 34,676,093 <supported by="" each="" special="" study="" td="" year.<=""><td></td><td></td><td></td><td></td><td></td><td></td><td>D</td><td>. c D 1</td><td> Dl A 11. A.</td><td>Not December 1.1.1. Diese</td><td>. 11</td><td></td><td>to Schedule F</td><td></td><td>to Schedule F</td></supported> | | | | | | | D | . c D 1 | Dl A 11. A. | Not December 1.1.1. Diese | . 11 | | to Schedule F | | to Schedule F |
| Less: Repairs deduction HECO-WP-F1-001 pg 1 34,676,093 <supported by="" each="" special="" study="" td="" year.<=""><td>Less: Repairs deduction HECO-WP-F1-001 pg 1 34,676,093 <supported by="" each="" special="" study="" td="" year.<=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Cahadula D2</td><td></td><td></td><td></td></supported></td></supported> | Less: Repairs deduction HECO-WP-F1-001 pg 1 34,676,093 <supported by="" each="" special="" study="" td="" year.<=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Cahadula D2</td><td></td><td></td><td></td></supported> | | | | | | | | | | | | Cahadula D2 | | | |
| | | | | | | | | | | | | | | her Canadial Ct. 1. | analı vinan | |
| NET DIANT AQQ DASIS ZUD. Z40. 907 | Net plant add basis 203,243,907 | | | | | | | | | | LCO-Wr-F1-001 pg 1 | | supported i | by special study | cacii year. | |
| | Level Land and Validae (2.519/ v. 205.245.007) 5.154.202 | | | | | | | | | | 0/ 205 245 007) | | | | | |
| Less: Land and Vehicles (2.51% x 205,245,907) 5,154,203 200,091,704 | | | | | | | | L | ess: Land ar | iu venicies (2.51 | 70 X 203,243,907) | | = | | | |
| | 200,021,704 | | | | | | | | | | | 200,031,704 | = | | | |

NOTE (1) The Tax Cut and Jobs Act removed bonus depreciation for public utility property.

NOTE (2) The numbers in columns b, c, d are rounded to the nearest thousand.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK TAX DEPRECIATION ON MAJOR CAPITAL PROJECTS ADDITIONS

| | | | | Estimated | | |
|----------|--|-------------------|------------|-----------------|---------------|-------------------|
| Line No. | Description | | PUC Docket | In Service Date | Amount | |
| | (a) | (b) | (c) | (d) | (e) | _ |
| 1 | Assumed Value of 2019 Major Capital Projects | Plant Items | | | \$ 69,045,439 | Schedule D3 |
| 2 | Assumed Value of 2019 Major Capital Projects | - CIAC nontaxable | | | \$ - | Schedule D3 |
| 3 | Assumed Value of 2019 Major Capital Projects | | | | \$ 69,045,439 | - - |
| | | | FED | FED | STATE | STATE |
| | Tax Classification of | | YR 1 | YR 1 | YR 1 | YR 1 |
| | | | | | | |
| 4 | Major Capital Project Additions | Tax Basis | DEPR RATE | TAX DEPR | DEPR RATE | TAX DEPR |
| 5 | 5 yr | 52,128,000 | 20.00% | 10,425,600 | 20.00% | 10,425,600 |
| 6 | 7 yr | - | 14.29% | - | 14.29% | - |
| 7 | 15 yr | 3,007,232 | 5.00% | 150,362 | 5.00% | 150,362 |
| 8 | 20 yr | 13,910,207 | 3.75% | 521,633 | 3.75% | 521,633 |
| 9 | 39 yr | - | | | | |
| 10 | Land | - | | | | |
| 11 | Vehicles | - | | | | |
| | Total | \$ 69,045,439 | | \$ 11,097,595 | | \$ 11,097,595 |
| | | To Sch F1 | | To Sch F1 | | To Sch F1 |

^{*} Adjustment only for non-taxable CIAC.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK CIAC SUMMARY

| Line | | | Unamortized | CIAC |
|------|-------------|-----------|-------------|--------------|
| No. | Description | Reference | CIAC | Amortization |
| | (a) | (b) | (c) | (d) |

Schedule not applicable.

See HECO-WP-D1-001 for further discussion on the Company's treatment of CIAC within the Annual Decoupling filing.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK EARNINGS SHARING CALCULATIONS

All Amounts \$000 (Except %)

| Line | | | | | | | ing | Basis Return o | | |
|---------|--|----------------------------------|-----|--------------|-----|-----------------------|-----|-----------------------|--------|-------------|
| No. | Description | Referer | nce | | Оре | erating Income | _ | Rate Base | Rate | of Return |
| | (a) | (b) | | | | (c) | | (d) | | (e) |
| 1 | Reported Operating Income before ratemaking adjustment | HECO-WP-H-009 & HECO-WP-H-001 | ž. | | \$ | 134,181 | \$ | 2,109,963 | | |
| 1a | Settlement of prior Joint Pole Accounts Receivable | Note 3 | | | | 697 | | | | |
| 2 | Ratemaking Adjustments to Line 1: | | | | | | | | | |
| 2a | Incentive Compensation Expenses (net of tax) | HECO-WP-H-002 | | | | 4,073 | | | | |
| 2b | Discretionary and Other Expenses Not Recoverable (net of tax) | HECO-WP-H-002 | | | | 1,052 | | | | |
| 2c | Amortization of investment income differential | HECO-WP-H-003 | | | | 185 | | | | |
| 2d | Income tax on items to be replaced by synchronized interest | HECO-WP-H-003 | | | | (12,461) | | | | |
| 2e | Special Medical Needs Program discount (net of tax) | HECO-WP-H-005 | | | | 102 | | | | |
| 2f | Performance Incentive Mechanism (net of tax) | HECO-WP-H-006 | | | | 360 | | | | |
| 2g | Final Test Year Refund (net of tax) | HECO-WP-H-007 | | | | 32 | _ | | | |
| 3 | Ratemaking Basis Amounts - Post Tax | Sum Lines 1 & 2 | | | \$ | 128,221 | \$ | 2,109,963 | | |
| 4 | Ratemaking Capitalization | | | Balances | | Ratios | | Cost Rate | Weig | ghted Cost |
| 5 | Short-Term Debt (12 mo. Avg) | | \$ | 88,868 | | 3.68% | | 2.54% | | 0.09% |
| 6 | Long-Term Debt (Simple Avg) | | \$ | 939,810 | | 38.92% | | 5.03% | | 1.96% |
| 7 | Hybrid Securities (Simple Avg) | | \$ | 28,758 | | 1.19% | | 7.16% | | 0.09% |
| 8 | Preferred Stock (Simple Avg) | | \$ | 21,192 | | 0.88% | | 5.36% | | 0.05% |
| 9 | Common Equity (Simple Avg) | | \$ | 1,335,921 | | 55.33% | | 9.50% | | 5.26% |
| 10 | Total Capitalization | HECO-WP-H-004 | \$ | 2,414,549 | | 100.00% | | | | 7.45% |
| 11 | Line 3 Rate Base Amount | | | | | | \$ | 2,109,963 | | |
| 12 | Weighted Cost of Debt (Sum Lines 5-7) | | | | | | | 2.14% | | |
| 13 | Synchronized Interest Expense Income Tax Factor (Note 1) | | | | | | \$ | 45,153 1.346801347 | | |
| 13a | Synchronized Interest Expense, net of tax | | | | | | \$ | 33,526 | | |
| 14 | Post Tax Income Available for Preferred & Common (Line 3 - Lin | e 13a) | | | | | | | \$ | 94,695 |
| 17 | Less: Preferred Income Requirement (Line 8 Weighted Cost times | Rate Base) | | | | | | | | 1,055 |
| 18 | Income Available for Common Stock | | | | | | | | \$ | 93,640 |
| 19 | Ratemaking Equity Investment (Line 9 Ratio times Rate Base) | | | | | | | | | 1,167,400 |
| 20 | Return on Equity for Decoupling Earnings Sharing (Line 18/Line 1 | 9) | | | | | | | | 8.02% |
| 21 | Earnings Sharing Revenue Credits: | | В | asis Points | | | | | | |
| 22 | Achieved ROE (basis points) | | | 802 | | | | | | |
| 23 | Authorized Return (basis points) | | | 950 | | | | | | |
| 24 | ROE for sharing (basis points) | | | - | | | | | | |
| 25 | Sharing Grid nor DAM Dravision | | D: | irst 100 bp | | Next 200 bp | | ll over 300 bp | Dotono | van Tatal |
| 26 | Sharing Grid per RAM Provision Distribution of Excess ROE (basis points) | | 1.1 | 0 ost 100 op | 1 | 0 | А | 0 000 000 | касра | yer Total |
| 27 | Ratepayer Share of Excess Earnings | | | 25% | | 50% | | 90% | | |
| 28 | Ratepayer Earnings Share - Basis Points | | | - | | - | _ | - 2070 | | _ |
| 29 | Revenue Credit per Basis Point (Note 2) | | | | | | | | \$ | 173 |
| 30 | Earnings Sharing Revenue Credits (thousands) | | | | | | | | Ψ | 0 |
| | | | | | | | | | To S | ch A Line 5 |
| Footnot | | | | | | | | | | |
| 1 | Composite Federal & State Income Tax Rate Income Tax Factor (1 / 1-tax rate) | | | | | 25.75% 1.346801347 | | | | |
| 2 | Ratemaking Equity Investment (line 19) | | | | \$ | 1,167,400 | | | | |
| - | Basis Point = 1/100 of a percent | | | | ~ | 0.01% | | | | |
| | Earnings Required per Basis Point (thousands) | | | | \$ | 116.74 | | | | |
| | Times: Income Tax Conversion Factor | | | | - | 1.346801347 | | | | |
| | Pretax Income Required per Basis Point (thousands) | | | | \$ | 157 | | | | |
| | Times: Revenue Tax Conversion Factor | | | | | 1.0975 | | | | |
| | Revenue Requirement per Basis Point (thousands) | | | | \$ | 173 | | | | |
| | Per Docket No. 2018-0075, Decision and Order No. 35768, the Co | | | | | | | | | |

³ Per Docket No. 2018-0075, Decision and Order No. 35768, the Commission approved the Asset Transfer, Pole Licensing and Amended Joint Pole agreements. The settlement recovery of prior joint pole accounts receivables previously written-off was recorded to interest income (and excluded from Operating Income) in 2018. Upon further consideration, the recovery should have been recorded to Uncollectible Accounts (904) and included in Operating Income in 2018. (Taxes on the Joint Pole interest income was already included in Operating Income as of December 31, 2018.) Accordingly, an upward adjustment of \$696,636 is being made to Operating Income in the earnings sharing mechanism calculation.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK PUC-ORDERED MAJOR OR BASELINE CAPITAL PROJECTS CREDITS

| Line | | | |
|------|-------------|-----------|--------------|
| No. | Description | Reference | Amount \$000 |
| | (a) | (b) | (c) |

This Schedule has not been developed yet and will be developed only when/as needed.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RAM CAP

| Line No. | Description | Reference | Amo | ount \$000 |
|----------|--|-----------------|-----|------------|
| | (a) | (b) | | (c) |
| 1 | Last Rate Order Target Annual Revenues | Schedule B1 | \$ | 599,974 |
| 2 | 2018 RAM Cap Increase excluding Exceptional & Other Matters (net of Revenue Tax) | Note 2 | | 12,599 |
| 3 | 2018 Target Revenues Subject to Escalation | Line 1 + Line 2 | | 612,573 |
| 4 | 2019 GDP Price Index | HECO-WP-C-002 | | 2.10% |
| 5 | 2019 RAM Cap Increase Excluding Exceptional & Other Matters | | | 12,864 |
| 6 | RAM Cap for 2018 RAM Revenue Adjustment | Line 2 | | 12,599 |
| 7 | RAM Cap for 2019 RAM Revenue Adjustment | Line 5 + Line 6 | | 25,463 |
| 8 | Revenue Tax Factor (1/(1-8.885%)) | | | 1.0975 |
| 9 | RAM Cap for 2019 RAM Revenue Adjustment | Line 7 x Line 8 | \$ | 27,946 |
| | | | To | o Sch Al |

Note 1 <u>Target Revenues</u>:

See Decision and Order No. 32735, filed March 31, 2015, paragraph 107, page 94:

"The RAM Cap shall be based on the Target Revenues determined in accordance with the RBA and RAM tariffs as provided below ("Basis"), times the cumulative annually compounded increase(s) in GDPPI for intervening years, adjusted to include applicable revenue taxes."

The RAM basis for the calculation of the RAM Revenue Adjustment cap shall be the target revenues determined in accordance with the RBA tariff based on the results of the Company's most recent interim or final rate case decision.

Note 2 See Transmittal No. 18-01 (Decoupling) - Hawaiian Electric Company RBA Rate Adjustment, Schedule J for 2018 RAM Revenue Adjustment Cap of \$13,828 (\$12,599 net of revenue tax).

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK EXCEPTIONAL & OTHER MATTERS

| Line No. | Description | Reference | Amount \$000 |
|----------|---|-----------|-------------------|
| | (a) | (b) | (c) |
| 1 | None | | |
| 2 | 2019 Revenue Adjustment for Exceptional & Other Matters | | \$ - To Sch A1 |

Note 1 <u>Exceptional and Other Matters:</u>

See Order No. 32735, filed March 31, 2015, paragraph 107, page 94 - 95:

"The Basis used in determining the RAM Cap shall be adjusted to exclude or otherwise appropriately account for adjustments for the recovery of revenues for previously explicitly stipulated and approved exceptional matters or other matters specifically ordered by the commission, which shall, in any event, be recovered fully without respect to any limitations resulting from application of the RAM Cap."

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK MAJOR PROJECT INTERIM RECOVERY

| Line No. | Description | Description Reference | | | | |
|----------|---|-----------------------|-----------|-----------------------|--|--|
| | (a) | (b) | | (c) | | |
| 1 2 | Schofield Generating Station Docket No. 2017-0213 | Schedule L1 | \$ | 18,051 | | |
| 3 | Revenue Tax Factor (1/(1-8.885%)) | | | 1.0975 | | |
| 4 | Major Project Interim Recovery Total | | \$ To Sch | 19,811 B1, line 15 | | |

Note: Per Notice Transmittal to Update Target Revenue for Schofield Generating Station through the Major Project Interim Recovery Adjustment Recovery Mechanism, filed February 7, 2019, Transmittal No. 19-01 effective January 1, 2019. See Schedule L1.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK

REVENUE REQUIREMENT AND DETERMINATION OF MAJOR PROJECT INTERIM RECOVERY MPIR PROJECT

\$ in thousands

| Line No. | Description | Reference | | ecorded at 2/31/2018 | 2019 Activity | | Ending Balance of 12/31/19 | Average Balance | | MPIR |
|----------|---|--------------------------------|--------|----------------------|------------------|----|----------------------------------|--------------------|------|------------|
| | (a) | (b) | | (c) | (d) | | (e) | (f)=((c)+(e))/2 | | (g) |
| 1 2 | Return on Investment - Schofield Generating Station Gross Plant in Service (not to exceed PUC approved amount) Accum Depreciation | HECO-WP-L-001 HECO-WP-L-001 | | 141,570 | - (4,586) | | 141,570 (4,586) | 141,570 (2,293) | | |
| 3 | Net Cost of Plant in Service | | | 141,570 | (4,586) | | 136,984 | 139,277 | | |
| 4 | Fuel Inventory - Avoided | Note 3 | | (1,534) | - | | (1,534) | (1,534) | | |
| 5 | M&S Inventory | Note 3 | | 100 | - | | 100 | 100 | | |
| 6 | Total Additions | | | (1,434) | - | | (1,434) | (1,434) | | |
| 7 | CIAC | Not Applicable | | - | - | | - | - | | |
| 8 | ADIT | HECO-WP-L-002 | | (8,653) | (1,540) | | (10,193) | (9,423) | | |
| 9 | State ITC | HECO-WP-L-002 | | (4,124) | 412 | | (3,712) | (3,918) | | |
| 10 | Total Deductions | | | (12,777) | (1,128) | | (13,905) | (13,341) | | |
| 11 | Total Rate Base | | \$ | 127,359 | \$ (5,713) | \$ | 121,646 | 124,502 | | |
| 12 | Average Rate Base | | | | | | | \$ 124,502 | | |
| 13 | Rate of Return (grossed-up for income taxes, before revenue ta | Note 4 | | | | | - | 9.47% | | |
| 14 | Annualized Return on Investment (before revenue taxes) | | | | | | | | \$ | 11,790 |
| 15 | Depreciation Expense (Note 1) | HECO-WP-L-001 | | | | | | 4,586 | | |
| 16 | Operating & Maintenance Expense | Note 2 | | | | | | 2,087 | | |
| 16a | Prior year reconciliation of O&M to actuals | Note 2 | | | | | | - | | |
| 17 | Amortization of State ITC | see line 6 | | | | | | (412) | | |
| 18 | Lease Rent Expense | Not Applicable | | | | | | - | | |
| 19 | Other Expense | Not Applicable | | | | | - | - | _ | |
| 20 | Total Expenses | | | | | | | | \$ | 6,260 |
| 21 | Total Major Project Interim Recovery | | | | | | | | \$ | 18,051 |
| 22 | Revenue Tax Factor (1/(1-8.885%)) | | | | | | | | | 1.0975 |
| 23 | Annualized Revenue for Major Project Interim Recovery | | | | | | | | \$ | 19,810.8 |
| | | | | | | | | ٦ | Γo S | ch B & B1 |
| | | | | | | Re | econciliation | n to Schedule I | 31 (| Info Only) |
| | | | | | | | | Oct - Dec 18 | | 2019 |
| | | | Annu | alized Rev | enue for MPIR | | 6,600 | \$ 8,561 | \$ | 19,811 |
| | | | | | Rev Tax Adj | \$ | (586) | \$ (761) | \$ | (1,760) |
| | | D (1 |) (DII | D C 37 | | Ф | (01.4 | Φ 7.000 | Ф | 10.051 |

Note 1: Depreciation expense is recorded beginning in the year after an asset is placed in service, therefore, depreciation expense is zero in year 1. The revenue requirement for year 2 and thereafter will include depreciation expense at existing, approved depreciation accrual rates at the time of filing.

Note 2: Total O&M expense is estimated to cost \$1.787 million annually for year 1 (\$2.087 million annually during the interim period thereafter), as referenced within Attachment 1 - SGS Business Case Revenue Requirement Update and approved in Order No. 35953, filed December 14, 2018.

Prorated MPIR for Year 1 excl Rev Tax \$

Incremental \$

6.014 \$

6,014

Note 5

7.800 \$ 18.051

1.787

Note 6

10,250

- Note 3: Decision and Order No. 35556 dated June 27, 2018 in Docket No. 2017-0213.
- Note 4: Transmittal No. 18-01 (Decoupling) Hawaiian Electric's RBA Rate Adjustment, Schedule D, filed May 29, 2018.
- Note 5: MPIR Revenues effective July 1, 2018 approved in Order No. 35647, issued August 15, 2018 in Docket No. 2017-0213.
- Note 6: MPIR Revenues effective October 1, 2018 filed December 21, 2018 in Docket No. 2017-0213.

HAWAIIAN ELECTRIC COMPANY, INC. <u>DECOUPLING CALCULATION WORKBOOK</u> 2018 PERFORMANCE INCENTIVE MECHANISMS

| | 2018 Annual Total * | 2018 Target ** | Variance (c)=(a)-(b) | Deadband ** | Max | <u>kimum \$ **</u> | (Penalty) / Reward $Amount$ $1.0 * (((b-a)/d) * e + e)$ | - |
|-----------------------------|------------------------|-------------------|----------------------|-------------|-------|--------------------|---|---|
| Service Quality: | (4) | (0) | (6) (4) (6) | (4) | | (6) | 110 (((0 4) / 4) 0 0 0) | |
| Normalized T&D SAIFI | | | | | | | | |
| Without Exclusion | 1.253 | 1.112 | 0.141 | 0.089 | \$ | 2,244,112 | \$ (1,306,645) | _ |
| With Exclusion | 1.238 | 1.112 | 0.126 | 0.089 | \$ | 2,244,112 | \$ (929,827) | j |
| Normalized T&D SAIDI | | | | | | | | |
| Without Exclusion | 111.94 | 99.10 | 12.84 | 9.033 | | 2,244,112 | \$ (946,492) | |
| With Exclusion | 106.41 | 99.10 | 7.31 | 9.033 | | 2,244,112 | \$ - | |
| Call Center Performance (I | Excludes Block | ed Calls) | | | | | | |
| ` | 83.97% | 79.66% | 4.31% | 3.00% | \$ | 897,645 | \$ 391,972 | |
| Phase 1 Renewable Energy RF | | | | | | | | |
| First Allocation | *** | | | | | | \$ 591,854 | j |
| | | | | Total W | ithou | ıt Exclusion | \$ (1,269,311) | |
| | | | | Tota | l Wit | h Exclusion | \$ 53,998 | l |
| | | | | | | | To Sch A | • |

Notes:

Exclusion represents 25kV Proactive Work, filed in Transmittal No. 18-05, Hawaiian Electric's Letter Request for Exclusion of 25kV Splice Replacement Work from Performance Incentive Mechanism Provision's SAIDI and SAIFI 2018 Calculation, filed December 18, 2018.

^{*} See HECO-WP-M-002

^{**} See HECO-WP-M-001

^{***} See HECO-WP-M-005

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK ON-BILL FINANCING COST RECOVERY

| | | Note 1 | | Cost Recov | ery (excluding | (Rev Tax) | Cost Recovery (including Rev Tax) | | | | |
|------|----------------|------------------------|------------------------------|------------------------------|------------------------------------|-----------|---|-----------------------------|-----------|--|--|
| Line | <u>Company</u> | Customer Count a | Allocation $b = a/total \ a$ | Total Recovery c = \$2,3 | 2019 Recovery 330,408 allowe | | $ \begin{array}{ccc} 2019 & 2020 \\ \text{Recovery} & \text{Recovery} \\ \text{Sax with Rev Tax with Rev Tax} \\ d = c * 1.0975 \end{array} $ | | | | |
| 1 | HE | 305,456 | 66% | 1,537,150 To Sch B | 768,575 To Sch A | 768,575 | 1,687,022 | 843,511 To Sch B1 | 843,511 | | |
| 2 | HL | 85,758 | 19% | 431,561 | 215,780 | 215,781 | 473,638 | 236,819 | 236,819 | | |
| 3 | ME | 71,875 | 16% | 361,697 | 180,849 | 180,848 | 396,963 | 198,481 | 198,482 | | |
| 4 | Total | 463,089 | 100% | 2,330,408 | 1,165,204 | 1,165,204 | 2,557,623 | 1,278,811 | 1,278,812 | | |

Note 1: Statistical Report as of December 31, 2018.

Note 2: See Decision and Order No. 36212, Docket No. 2017-0102, filed March 11, 2019, pages 18-19. The Commission allowed the Companies to recover Program implementation costs over a period of two years, commencing with the 2019 RBA Rate Adjustment which will, if there are no major issues with the standard RBA Review Transmittal process, become effective on June 1, 2019.

Hawaiian Electric Company, Inc. Sales Forecast for June 2019 to May 2020 in GWh

| | | | | 2019 | | | | | | 2020 | | | |
|-------|------------|------------|------------|------------|-------|-------|-------|-------|------------|-------|------------|-------|--------------|
| • | <u>Jun</u> | <u>Jul</u> | <u>Aug</u> | <u>Sep</u> | Oct | Nov | Dec | Jan | <u>Feb</u> | Mar | <u>Apr</u> | May | <u>Total</u> |
| R | 126.7 | 141.7 | 151.2 | 146.2 | 143.0 | 131.9 | 130.4 | 132.1 | 118.6 | 120.1 | 116.7 | 121.7 | 1,580.3 |
| G | 24.2 | 25.6 | 26.5 | 25.3 | 26.0 | 23.9 | 24.1 | 22.6 | 22.8 | 23.9 | 23.7 | 24.6 | 293.2 |
| J | 148.0 | 159.0 | 160.8 | 157.3 | 158.4 | 145.6 | 139.3 | 139.4 | 140.8 | 141.7 | 144.9 | 152.0 | 1,787.2 |
| P | 233.6 | 250.5 | 261.0 | 246.4 | 249.4 | 230.6 | 225.1 | 219.6 | 214.0 | 223.5 | 225.2 | 232.1 | 2,811.0 |
| F | 1.8 | 1.9 | 1.7 | 1.6 | 1.6 | 1.4 | 1.4 | 1.3 | 1.3 | 1.5 | 1.3 | 1.4 | 18.2 |
| Total | 534.3 | 578.7 | 601.2 | 576.8 | 578.4 | 533.4 | 520.3 | 515.0 | 497.5 | 510.7 | 511.8 | 531.8 | 6,489.9 |

Source: Hawaiian Electric Company, Inc. February 2019 Sales Forecast Update.

Hawaiian Electric Company, Inc. Adjustment For Prior Year RBA Accrual Recovery of 12/31/16 RBA Balance

| | | 2018 | | | | | | |
|---|------------|---|-------------|--------------|-----------|-------------------|-------------|--|
| | · | January | February | March | April | May | Total | |
| Billed RBA Revenues | Note 1 | 11,581,297 | 10,784,945 | 5,161,437 | 3,718,306 | 3,653,460 | 34,899,445 | |
| Net Unbilled Revenues | Note 1 | (834) | (3,556,154) | (1,491,331) | 45,447 | 121,360 | (4,881,511) | |
| Total Billed + Unbilled | | 11,580,464 | 7,228,791 | 3,670,106 | 3,763,752 | 3,774,820 | 30,017,934 | |
| x % Share for RBA | Note 2 & 3 | 31.9352% | 63.5519% | 100.0327% | 100.0327% | 100.0327% | | |
| RBA Revenues (Recovery of 12/31/16 RBA balance) | | 3,698,239 | 4,594,033 | 3,671,308 | 3,764,985 | 3,776,056 | 19,504,621 | |
| | | Schedule B2 ——————————————————————————————————— | | | | | | |
| Less: Revenue Taxes | 0.08885 | (328,589) | (408,180) | (326,196) | (334,519) | (335,503) | (1,732,987) | |
| RBA Revenues (Recovery of 12/31/16 RBA balance) | | 3,369,650 | 4,185,853 | 3,345,112 | 3,430,466 | 3,440,553 | 17,771,634 | |
| net of Revenue Taxes | | | | Schedule B - | | \longrightarrow | | |

^{*} Differences are due to rounding

Note 1: RBA rate adjustment revenues per the Billed reports and Unbilled reports include both RBA and RAM revenues. Therefore, an allocation % is utilized to determine RBA revenues.

Note 2: RBA Rate Adjustment Allocation for January 1, 2018 to February 15, 2018 is per Transmittal No. 17-02 (Decoupling) - RBA Rate Adjustment (filed March 31, 2017), Schedule A, Note (1). RBA Rate Adjustment Allocation for February 16, 2018 to May 31, 20018 is per Hawaiian Electric Revised Schedules Resulting from Interim Decision and Order No. 35100 as modified by Order No. 35229, and Order No. 35220, Exhibit 7, filed on January 19, 2018, which was approved by Order No. 35280, issued on February 9, 2018. See Note 3 below for prorated % share for RBA for February 2018.

Note 3: Prorated % Share for RBA by day resulting from 2017 Test Year Interim Rates, effective February 16, 2018, per Docket No. 2016-0328 - Hawaiian Electric 2017 Test Year Rate Case Hawaiian Electric Revised Schedules Resulting from Interim Decision and Order No. 35100 as modified by Order No. 35229 and Order No. 35220, Exhibit 7, filed on January 19, 2018. As approved by the Commission in Order No. 35280, Approving Revised Schedules of Operations and Tariff Sheets, filed on February 9, 2018.

| _ | RBA % | No of Days | Prorated RBA % | 6 |
|---------------|-----------|------------|----------------|---|
| Feb 1-Feb 15 | 31.9352% | 53.6% | 17.1081% | |
| Feb 16-Feb 28 | 100.0327% | 46.4% | 46.4438% | |
| | | | 63.5519% | |

Hawaiian Electric Company, Inc. Adjustment For Prior Year RBA Accrual Recovery of 12/31/17 RBA Balance

| | | | | | 20 | 18 | | | |
|---|---------|-------------|-----------|-----------|-------------|-----------|-----------|-------------------|-------------------|
| | | June | July | August | September | October | November | December | Total |
| Billed RBA Revenues | Note 1 | 4,701,823 | 5,771,562 | 6,185,543 | 6,034,935 | 6,400,115 | 5,842,574 | 5,503,361 | 40,439,912 |
| Net Unbilled Revenues | Note 1 | 990,752 | 364,534 | 81,590 | (85,985) | (137,876) | (175,257) | (57,177) | 980,581 |
| Total Billed + Unbilled | | 5,692,575 | 6,136,096 | 6,267,133 | 5,948,950 | 6,262,238 | 5,667,317 | 5,446,183 | 41,420,493 |
| x % Share for RBA | Note 2 | 79.6227% | 79.6227% | 79.6227% | 79.6227% | 79.6227% | 79.6227% | 79.6227% | |
| RBA Revenues (Recovery of 12/31/17 RBA balance) | | 4,532,582 | 4,885,725 | 4,990,061 | 4,736,715 | 4,986,163 | 4,512,471 | 4,336,398 | 32,980,115 |
| | | | | | Schedule B2 | | | | \longrightarrow |
| Less: Revenue Taxes | 0.08885 | (402,720) | (434,097) | (443,367) | (420,857) | (443,021) | (400,933) | (385,289) | (2,930,284) |
| RBA Revenues (Recovery of 12/31/17 RBA balance) | | 4,129,862 | 4,451,628 | 4,546,694 | 4,315,858 | 4,543,142 | 4,111,538 | 3,951,109 | 30,049,831 |
| net of Revenue Taxes | | | | | Schedule B | | | \longrightarrow | |

^{*} Differences are due to rounding

Note 1: RBA rate adjustment revenues per the Billed reports and Unbilled reports include both RBA and RAM revenues. Therefore, an allocation % is utilized to determine RBA revenues.

Note 2: RBA Rate Adjustment Allocation for June 1, 2018 - May 31, 2019 is per Transmittal No. 18-01 (Decoupling) - RBA Rate Adjustment (Filed May, 29, 2018), Schedule A, Note (1).

Hawaiian Electric Company, Inc. Bargaining Unit Wage Increase per Collective Bargaining Agreements

| | Wage Incre | eases: | 1/1/2014 | 3.00% | (Note 1) | |
|------|---|--|--|---|---|----------------------------------|
| | (non-con | npounded) | 1/1/2015 | 3.00% | (Note 1) | |
| | | | 1/1/2016 | 3.25% | (Note 1) | |
| | | | 1/1/2017 | 3.00% | (Note 1) | |
| | | | 1/1/2018 | 3.00% | (Note 1) | |
| | | | 1/1/2010 | 2.000/ | Q1 (Q) | |
| | | | 1/1/2019 | 3.00% | (Note 2) | |
| | | | 1/1/2020 | 3.00% | (Note 2) | |
| | | | 1/1/2021 | 3.00% | (Note 2) | |
| | | | | | | |
| | | | Increase | Wage Rate | | r Cost |
| _ | Increase | e effective | Amount | With Increase | Escalat | ion Rate |
| | | | | | | |
| _ | | _ | (a) | (b) or | | c) |
| _ | | | (a) | (b) or prev (b) + (a) | , | ev (b) -1 |
| 1.00 | 3 00% | 1/1/2014 | . , | prev (b) + (a) | , | * |
| 1.00 | 3.00% 3.00% | 1/1/2014 1/1/2015 | 0.0300 0.0300 | | , | * |
| 1.00 | | | 0.0300 | prev (b) + (a) 1.0300 | (b) / pro | ev (b) -1 |
| 1.00 | 3.00% | 1/1/2015 | 0.0300 0.0300 | prev (b) + (a) 1.0300 1.0600 | (b) / pro | 2.91% |
| 1.00 | 3.00% 3.25% | 1/1/2015 1/1/2016 | 0.0300 0.0300 0.0325 | prev (b) + (a) 1.0300 1.0600 1.0925 | (b) / pro 0.0291 0.0307 | 2.91% 3.07% |
| | 3.00% 3.25% 3.00% 3.00% | 1/1/2015 1/1/2016 1/1/2017 1/1/2018 | 0.0300 0.0300 0.0325 0.0300 0.0300 | 1.0300 1.0600 1.0925 1.1225 1.1525 | (b) / pro 0.0291 0.0307 0.0275 | 2.91% 3.07% 2.75% |
| 1.00 | 3.00% 3.25% 3.00% 3.00% 3.00% | 1/1/2015 1/1/2016 1/1/2017 1/1/2018 1/1/2019 | 0.0300 0.0300 0.0325 0.0300 0.0300 | prev (b) + (a) 1.0300 1.0600 1.0925 1.1225 1.1525 1.0300 | (b) / pro 0.0291 0.0307 0.0275 0.0267 | 2.91% 3.07% 2.75% 2.67% |
| | 3.00% 3.25% 3.00% 3.00% | 1/1/2015 1/1/2016 1/1/2017 1/1/2018 | 0.0300 0.0300 0.0325 0.0300 0.0300 | 1.0300 1.0600 1.0925 1.1225 1.1525 | (b) / pro 0.0291 0.0307 0.0275 | 2.91% 3.07% 2.75% |

Note 1: Agreement ratified by the IBEW, Local 1260 on November 1, 2012, reflects a 3.00% increase effective 1/1/2014, 1/1/2015, 1/1/2017 and 1/1/2018 and a 3.25% increase effective 1/1/2016, based on 1/1/2013 rates.

Note 2: Agreement ratified by the IBEW, Local 1260 on July 31, 2018, reflects a 3.00% increase effective 1/1/2019, 1/1/2020 and 1/1/2021 based on 1/1/2018 rates. See also HECO-WP-C-003.

Blue Chip Economic Indicators®

Top Analysts' Forecasts of the U.S. Economic Outlook for the Year Ahead Vol. 44, No. 2, February 10, 2019

2019 Real GDP Forecast Drops to 2.5%

| | | D | n+ C1 | | | Kear (| | | | | | | Tr_4 1 * | Inita 2010 | 2010 |
|---|-------------------|--------------|-----------------|---------------|---------------|------------------|-------------------|--------------|------------------|--------------|----------------|---------------|-----------------|--------------------|---------------------|
| FEBRUARY 2019 | 1 | - Percei | nt Change 3 | 2019 Fro 4 | m 2018 i 5 | (Full Year- 6 | Over-Prio 7 | r Year) 8 | 9 | Ave | rage For 2 | 12 | - Total U 13 | Jnits-2019 - 14 | 2019 15 |
| Forecast For 2019 | | | | | | | Personal | | | Treas. | Treas. | | | Auto&Light | Net |
| SOURCE: | (Chained) | | GDP | Price | Prod. | | Cons. Exp. | | | Bills | Notes | Rate | | Truck Sales | Exports |
| Action Economics | (2012\$) 2.9 H | Index | (Cur.\$) 5.0 | Index 1.9 | (Total) | 2.8 | (2012\$) 3.1 H | (2012\$) | (Cur.\$) 7.5 | 3-mo. | 10-Year 3.0 | (Civ.) 3.7 | (Mil.) 1.28 | (Mil.) 17.1 | (2012\$) -967.9 |
| Amherst Pierpont Securities | 2.9 H 2.9 H | | 5.4 H | 2.5 H | 3.5 3.5 | 2.8 | 3.1 H 3.1 H | 4.9 | 7.5 7.5 | 2.7 | 3.0 | 3.6 | 1.28 | 17.1 | -967.9 -960.0 |
| MUFG Union Bank | 2.9 H | | 5.3 | 1.8 | 3.2 | na | 2.9 | 3.8 | 5.5 | 2.4 | 3.0 | 3.7 | 1.29 | 17.2 H | -960.0 |
| Barclays, US* | 2.8 | 1.9 | 4.8 | 1.4 | 2.8 | na | 2.9 | 5.1 | na | na | na | 3.7 | na | na | -1024.5 |
| RDQ Economics | 2.8 | 2.0 | 4.9 | 2.1 | 3.7 H | | 2.9 | 5.6 | 8.5 H | | 3.1 | 3.5 | 1.30 | 17.2 H | |
| SOM Economics, Inc. U.S. Chamber of Commerce | 2.8 2.8 | 2.0 | 4.8 4.9 | 2.0 2.1 | 3.1 3.2 | 2.5 2.6 | 2.5 2.9 | 4.2 5.2 | 5.0 4.5 | 2.6 2.6 | 2.9 2.9 | 3.6 3.9 | 1.25 1.30 | 16.8 na | -938.0 -932.7 |
| Credit Suisse | 2.7 | 2.0 | 4.7 | 1.8 | na | na | 2.9 | 3.0 | na | na | na | 3.7 | na | na | -932.7 |
| Moody's Analytics, US | 2.7 | 2.3 | 5.1 | 2.1 | 2.9 | 2.2 | 2.8 | 5.3 | 6.1 | 2.6 | 3.1 | 3.6 | 1.38 H | 17.0 | -1080.7 L |
| NatWest Markets | 2.7 | 2.0 | 4.8 | 1.8 | 2.4 | 2.5 | 3.0 | 5.8 H | 5.0 | 2.7 | 2.8 | 3.5 | 1.20 | 16.5 | -980.0 |
| PNC Financial Services Group | 2.7 | 1.7 | 4.4 | 1.8 | 2.9 | 1.3 L | 2.7 | 4.6 | na | 2.5 | 2.9 | 3.6 | 1.30 | 17.0 | -1013.0 |
| RBC Capital Markets The Conference Board, US* | 2.7 2.7 | 2.1 na | 4.8 4.8 | 1.7 2.1 | na na | na 2.5 | 2.9 2.8 | 5.2 4.4 | na 6.2 | na 2.5 | 3.1 2.8 | 3.6 3.7 | 1.28 1.24 | 17.0 17.2 H | -980.0 -1020.3 |
| Comerica** | 2.6 | 2.0 | 4.6 | 1.9 | 3.5 | 2.9 | 2.6 | 4.1 | na | 2.5 | 2.9 | 3.7 | 1.24 | 16.6 | -942.4 |
| Georgia State University* | 2.6 | 2.4 | 5.0 | 2.0 | 2.6 | 2.5 | 2.8 | 5.1 | 4.4 | 2.5 | 3.2 | 4.1 | 1.24 | 16.3 | -1021.3 |
| High Frequency Economics | 2.6 | 2.0 | 4.7 | 1.9 | 2.8 | 2.9 | 3.0 | 3.3 | 1.7 | 2.4 | 2.9 | 3.8 | 1.22 | 16.9 | -953.1 |
| Naroff Economic Advisors* Point72 Asset Management* | 2.6 | 2.1 | 4.8 | 2.0 | 2.6 | 2.3 | 2.6 | 2.9 | 4.3 | 2.8 | 3.2 | 3.7 | 1.30 | 16.7 | -977.0 |
| Regions Financial Corporation | 2.6 2.6 | 1.9 2.5 H | 4.5 5.1 | 1.9 1.7 | 3.1 2.9 | 2.3 2.3 | 2.8 3.0 | 5.4 4.4 | 6.2 4.5 | 2.5 2.6 | 2.8 2.8 | 3.7 3.7 | 1.20 1.25 | 16.7 16.9 | -1058.8 -954.4 |
| Turning Points (Micrometrics) | 2.6 | 2.4 | 5.0 | 2.1 | 2.6 | 2.4 | 2.7 | 4.5 | 2.8 | 2.8 | 3.4 H | 3.8 | 1.18 L | 16.7 | -985.0 |
| ACT Research | 2.5 | 2.0 | 4.5 | 1.9 | 2.8 | 3.0 | 2.7 | 5.0 | na | 2.4 | 2.8 | 3.7 | 1.31 | 16.6 | -1012.7 |
| Bank of America-Merrill Lynch, US** | 2.5 | 2.0 | 4.6 | 1.6 | 2.7 | na | 2.6 | 3.4 | na | 2.4 | 2.8 | 3.7 | 1.29 | 16.6 | -969.1 |
| Eaton Corporation Econoclast | 2.5 2.5 | 2.3 2.0 | 4.8 4.5 | 2.0 2.0 | 2.5 2.8 | 2.7 2.2 | 2.6 2.8 | 4.1 3.5 | na 5.2 | 2.6 2.4 | 3.0 2.8 | 3.7 3.8 | 1.30 1.25 | 16.8 16.3 | -1006.2 -989.0 |
| Fannie Mae | 2.5 | 2.3 | 4.8 | 2.0 | 2.5 | 2.4 | 2.6 | 3.9 | 1.5 | 2.5 | 2.7 | 3.7 | 1.26 | 16.7 | -1020.9 |
| FedEx Corporation, US | 2.5 | 2.1 | 4.5 | 1.9 | 2.7 | 2.5 | 2.6 | 4.6 | 3.9 | 2.6 | 3.0 | 3.6 | 1.27 | 16.8 | -1008.0 |
| Ford Motor Company* | 2.5 | 2.1 | 4.5 | 2.2 | 2.6 | 2.5 | 2.5 | 3.9 | na | na | 2.7 | 3.7 | 1.27 | na | -1003.0 |
| General Motors Corporation, US | 2.5 | 2.1 | 4.6 | 2.0 | 2.8 | 2.6 | 2.7 | 3.8 | 1.8 | 2.6 | 2.9 | 3.6 | 1.28 | na | -857.3 |
| Inforum - Univ. of Maryland Moody's Capital Markets, US* | 2.5 2.5 | 2.1 1.9 | 4.7 4.5 | 2.0 1.6 | 2.7 3.5 | 2.4 2.6 | 2.6 2.8 | 4.3 3.8 | 4.5 4.3 | 2.7 2.4 | 3.0 2.8 | 3.7 3.6 | 1.27 1.28 | 16.7 16.9 | -980.4 -967.7 |
| National Assn. of Home Builders | 2.5 | 2.3 | 4.5 | 2.0 | 1.7 L | | 2.6 | 4.0 | na | 2.7 | 3.0 | 3.6 | 1.27 | 16.8 | -1020.0 |
| UCLA Business Forecasting Proj.* | 2.5 | 2.2 | 4.7 | 2.2 | 2.5 | 2.5 | 2.6 | 4.3 | 4.0 | 2.5 | 3.0 | 3.6 | 1.31 | 16.6 | -1035.0 |
| Wells Fargo, US | 2.5 | 1.9 | 4.4 | 2.1 | 3.0 | 2.9 | 2.9 | 3.8 | 4.4 | 2.6 | 3.0 | 3.7 | 1.30 | 16.7 | -1010.7 |
| AIG | 2.4 | 2.3 | 4.7 | 2.0 | 2.5 | 2.7 | 2.5 | 3.8 | 4.8 | 2.4 | 2.8 | 3.5 | 1.27 | 16.7 | -1009.2 |
| BMO Capital Markets* Daiwa Capital Markets America | 2.4 2.4 | 2.1 2.0 | 4.5 4.5 | 2.0 1.9 | 3.3 2.5 | 2.1 2.2 | 2.7 2.9 | 3.3 3.6 | 5.9 5.0 | 2.5 2.4 | 2.8 2.8 | 3.6 3.8 | 1.24 1.19 | 16.4 16.7 | -1009.0 -1012.0 |
| Goldman Sachs & Co.** | 2.4 | 2.0 | 4.3 | 1.8 | 1.7 L | | 2.8 | 3.3 | na | 2.7 | 2.9 | 3.7 | 1.19 | na | -975.5 |
| Macroeconomic Advisers by IHS Markit** | 2.4 | 2.1 | 4.5 | 2.0 | 2.7 | 2.5 | 2.6 | 3.6 | 1.5 | 2.6 | 2.9 | 3.6 | 1.28 | 16.8 | -1021.1 |
| MacroFin Analytics & Rutgers Bus School | 2.4 | 2.2 | 4.6 | 2.0 | 3.1 | 2.3 | 2.5 | 3.8 | 4.7 | 2.6 | 2.9 | 3.9 | 1.26 | 16.8 | -943.8 |
| Nomura Securities, US Northern Trust Company* | 2.4 | 2.3 | 4.7 | 1.7 | 2.7 | 2.1 | 2.9 | 2.7 | na | na | 2.7 | 3.4 L | 1.25 | 16.9 | -1044.3 |
| Oxford Economics, US | 2.4 2.4 | 1.8 1.7 | 4.2 4.2 | 2.0 1.7 | 2.7 2.9 | 2.2 2.4 | 2.7 2.8 | 3.1 3.3 | 4.1 -2.4 L | 2.7 2.5 | 3.2 2.8 | 3.6 3.7 | 1.28 1.29 | 16.6 17.0 | -989.9 -996.9 |
| Societe Generale | 2.4 | 1.9 | 4.3 | 1.6 | na | 2.5 | 2.8 | 4.1 | 3.2 | 2.6 | 2.8 | 3.6 | 1.23 | 16.7 | -1011.4 |
| UBS | 2.4 | 2.0 | 4.5 | 1.5 | 2.4 | 3.2 | 2.4 | 3.0 | na | 2.5 | na | 3.7 | 1.33 | na | -1010.9 |
| Economist Intelligence Unit, UK | 2.3 | 1.8 | 4.1 | 2.2 | 2.6 | 2.0 | 2.3 | 3.0 | na | 2.6 | 2.7 | 4.1 | 1.26 | 16.2 | -915.0 |
| Grant Thorton/Diane Swonk JP MorganChase, US | 2.3 | 2.1 | 4.4 | 1.9 | 2.6 | 2.5 | 2.6 | 3.4 | 1.2 | 2.4 | 2.8 | 3.7 | 1.24 | 16.6 | -1010.4 |
| MacroPolicy Perspectives | 2.3 2.3 | 1.8 1.7 | 4.1 4.0 | 1.4 1.3 L | 2.0 na | 2.7 na | 2.9 2.9 | 3.4 3.6 | 3.5 2.0 | na 2.6 | 3.1 2.8 | 3.7 3.8 | 1.28 1.22 | 17.0 16.7 | -1058.0 -1051.0 |
| Morgan Stanley, US** | 2.3 | 2.0 | 4.3 | 1.8 | 3.4 | 2.6 | 2.5 | 2.6 | na | 2.9 H | 2.5 | 3.5 | 1.28 | na | -988.4 |
| S&P Global, US* | 2.3 | 2.1 | 4.4 | 2.2 | 2.5 | 1.8 | 2.6 | 3.5 | 0.7 | 2.7 | 3.0 | 3.6 | 1.30 | 16.8 | -1006.3 |
| Swiss Re | 2.2 | 1.6 L | 3.8 L | 1.9 | 2.4 | 2.8 | 2.7 | 3.2 | 4.5 | 2.5 | 3.0 | 3.9 | 1.27 | 16.9 | -1019.1 |
| BNP Paribas North America ACIMA Private Wealth, US | 2.1 1.7 L | na 2.1 | na 3.8 L | 1.4 1.8 | 2.4 2.0 | 2.6 1.5 | 2.5 1.5 L | 3.0 1.6 L | na | 2.8 2.1 L | 3.4 H 2.3 L | 3.6 4.2 H | na 1.20 | na 15.7 L | -1008.0 -832.5 H |
| 2019 Consensus: February Avg. | | 2.1 | 4.6 | 1.9 | 2.8 | 2.5 | 2.7 | 3.9 | na 4.1 | 2.6 | 2.9 | 3.7 | 1.27 | 16.7 L | -832.3 H |
| Top 10 Avg. | | 2.4 | 5.1 | 2.2 | 3.4 | 2.9 | 3.0 | 5.3 | 6.4 | 2.8 | 3.2 | 3.9 | 1.31 | 17.1 | -922.9 |
| Bottom 10 Avg. | | 1.8 | 4.1 | 1.5 | 2.2 | 2.0 | 2.4 | 2.8 | 1.4 | 2.4 | 2.7 | 3.5 | 1.21 | 16.4 | -1041.6 |
| January Avg. | 2.6 | 2.1 | 4.7 | 1.9 | 2.7 | 2.5 | 2.7 | 4.1 | 4.6 | 2.6 | 3.0 | 3.6 | 1.27 | 16.8 | -989.7 |
| Historical data 2015 | 2.9 | 1.0 | 4.0 | 0.1 | -1.0 | 4.1 | 3.7 | 1.8 | -2.9 | 0.1 | 2.1 | 5.3 | 1.11 | 17.4 | -724.9 |
| 2013 2016 | | 1.1 | 2.7 | 1.3 | -1.0 | 1.7 | 2.7 | 0.5 | -2.9 -1.1 | 0.1 | 1.8 | 3.3 4.9 | 1.17 | 17.4 | -724.9 |
| 2017 | | 1.9 | 4.2 | 2.1 | 1.6 | 2.6 | 2.5 | 5.3 | 3.2 | 0.9 | 2.3 | 4.4 | 1.20 | 17.1 | -858.7 |
| 2018 | 2.9 f | 2.2 f | 5.2 f | 2.4 | 4.1 | 2.8 f | 2.7 f | 6.8 f | 7.8 f | 2.0 | 2.9 | 3.9 | 1.26 f | 17.2 | -908.4 f |
| Number of Forecasts Changed From a Mont. | f=Dec 20 | 18 Con. | sensus For | ecasts | | | | | | | | | | | |
| | | | | | | _ | | | | | | _ | _ | | |
| Down | | 17 | 26 | 18 | 10 | 8 | 14 | 19 | 12 | 25 | 26 | 6 | 9 | 13 | 14 |
| Same Up | | 24 6 | 14 8 | 17 14 | 13 22 | 26 11 | 31 4 | 20 9 | 16 3 | 16 2 | 15 2 | 23 20 | 30 6 | 23 1 | 21 13 |
| • | | | | | | | | | | | | | | | |
| February Median February Diffusion Index | | 2.0 38 % | 4.6 31 % | 1.9 46 % | 2.7 63 % | 2.5 | 2.7 40 % | 3.8 40 % | 4.5 35 % | 2.6 23 % | 2.9 22 % | 3.7 64 % | 1.27 47 % | 16.8 34 % | -1006.2 49 % |
| 1 Columny Diffusion filtex | 33 % | JO 70 | J1 70 | 40 % | | | 40 % | | 33 % | 23 70 | ∠∠ 70 | 04 70 | + / 70 | 34 % | + フ 70 |

^{*}Former winner of annual Lawrence R. Klein Award for Blue Chip Forecast Accuracy. **Denotes two-time winner.

HAWAIIAN ELECTRIC COMPANY. INC.

| | E | XHIBIT A | 3.00% | 3.00% | 3.00% |
|--|---|-------------|------------|----------|----------|
| JOB CODE | JOB TITLE | | 1/1/2019 | 1/1/2020 | 1/1/2021 |
| CL829 | CASHIER | | | | |
| | 1st 3 mos. | | 24.19 | 24.89 | 25.59 |
| | Next 3 mos. | | 25.31 | 26.05 | 26.79 |
| | Next 3 mos. | | 26.60 | 27.37 | 28.14 |
| | Next 6 mos. | | 27.91 | 28.72 | 29.53 |
| | Next 6 mos. | | 29.26 | 30.11 | 30.96 |
| | Thereafter | | 30.71 | 31.60 | 32.49 |
| CLC05 CL18 CL20 CL22 CL104 | SR INFORMATION STORAGE SYSTEM OPERATION CLERK TEST AND SUBSTATION CLE DESKTOP PUBLISHING OPER POWER PLANT CLERK | (ERK | T OPERATOR | | |
| CL257 | MOTOR FLEET CLERK | | | | |
| CL328 | METER CLERK | | | | |
| CL21 | PRINT PRODUCTION OPERA | TOR | | | |
| CL684 | COMPUTER SYSTEMS OPER | RATOR TRAIN | NEE | | |
| | 1st 3 mos. | | 24.71 | 25.43 | 26.15 |
| | Next 3 mos. | | 25.95 | 26.71 | 27.47 |
| | Next 3 mos. | | 27.20 | 27.99 | 28.78 |
| | Next 6 mos. | | 28.55 | 29.38 | 30.21 |
| | Next 6 mos. | | 29.99 | 30.86 | 31.73 |
| | Thereafter | | 31.40 | 32.31 | 33.22 |
| | | | | | |
| TL180 | CONDENSER CLEANER | | | | |
| | 1st 6 mos. | | 27.20 | 27.99 | 28.78 |
| | Next 6 mos. | | 28.55 | 29.38 | 30.21 |
| | Next 6 mos. | | 29.99 | 30.86 | 31.73 |
| | Thereafter | | 31.40 | 32.31 | 33.22 |
| CLA49 CLA81 CL12 CL13 CL15 | PROJECT CLERK STANDARDS CLERK JOINT POLE AIDE PROJECT CLERK FIELD SERVICE CLERK | | | | |
| | 1st 3 mos. | | 25.31 | 26.05 | 26.79 |
| | Next 3 mos. | | 26.60 | 27.37 | 28.14 |
| | Next 3 mos. | | 27.91 | 28.72 | 29.53 |
| | Next 6 mos. | | 29.26 | 30.11 | 30.96 |
| | Next 6 mos. | | 30.71 | 31.60 | 32.49 |
| | Thereafter | | 32.27 | 33.21 | 34.15 |
| T335 | TRUCK DRIVER A 1/ | /1/2018 | 32.31 | 33.25 | 34.19 |
| CL406 | METER READER | | | | |
| | | 23.99 | 24.71 | 25.43 | 26.15 |
| | Next 3 mos. | 25.19 | 25.95 | 26.71 | 27.47 |
| | | 27.72 | 28.55 | 29.38 | 30.21 |
| | | 29.12 | 29.99 | 30.86 | 31.73 |
| | | 30.49 | 31.40 | 32.31 | 33.22 |
| | Thereafter | 32.03 | 32.99 | 33.95 | 34.91 |
| | | | x 1.03 | x 1.0291 | x 1.0283 |

CIAC Treatment Resulting from FERC Adoption

Adoption of FERC USOA required a change in presentation change to Contributions in Aid of Construction (CIAC)

Prior to October 2018, and in establishing rates in previous test year rate cases, the Company's presentation of contributions in aid of construction ("CIAC") followed the guidelines of the National Associate of Regulatory Utility Commissioners Uniform System of Accounts (NARUC USOA). Under the NARUC reporting system, CIAC is reported under an exclusive account, account 271, which includes donations or contributions in cash, services or property from states, municipalities, or other governmental agencies, individuals and others for construction purposes. All CIAC was incorporated as a deduction in the calculation of rate base in part because the Companies' systems did not facilitate on-going reporting of CIAC related to plant in service separate from CIAC related to construction work in progress ("CWIP").

The Commission approved the Companies' request to change to Federal Energy Regulatory Commission Uniform System of Accounts (FERC USOA), beginning with the implementation of the Companies' new ERP/EAM, in Decision and Order No. 31757, issued December 19, 2013 in Docket No. 2013-0007.

Beginning in October 2018 with the transition to FERC, the net balance of CIAC in account 271 less the CIAC amortization to be recorded for October to December 2018, was credited against the account balances charged with the cost of construction, i.e., gross plant in service and CWIP, resulting in the account becoming zero (i.e. "0") at December 31, 2018.

Ratemaking treatment for CIAC

The Company's ratemaking treatment of contributions in aid of construction is summarized below:

- CIAC associated with Plant in Service When a utility capital project is placed into service, the plant in service net of the associated CIAC is included as net cost of plant in service in rate base. The plant in service net of the CIAC is included as part of the basis for the depreciation accrual the year after it is placed into service (i.e. January 1 of the year after it is placed into service).
- CIAC associated with CWIP For book purposes, CIAC that is received while projects are still under construction (i.e. in CWIP) will offset the costs incurred and is presented net in CWIP. The CWIP net of the associated CIAC is subject to the AFUDC accrual if there is a net CWIP balance. In the next rate case, the Company will request CIAC associated with CWIP be excluded from the rate base calculation since CWIP net of

CIAC earns AFUDC. CIAC associated with CWIP is however, included in rate base in this RAM calculation for consistency with the 2017 Test Year treatment. See further discussion of Company's requested treatment of CIAC associated with CWIP below.

• Developer Advances - Cash contributions received in advance of construction of a utility capital project that are temporarily not classified as CIAC because the funds received are in excess of the specific project expenditures. The balance of developer advances is presented as funds from non-investors, included in its own exclusive account, and deducted in the calculation of rate base. As project costs are incurred for a utility capital project, an equal portion of developer advances associated with the project will be reclassified as CIAC and credit the accounts charged with the cost of construction. Developer Advances were included as a part of CIAC as a reduction to rate base in the 2017 Test Year.

Treatment of CIAC within the 2019 Annual Decoupling Filing

For the 2019 Decoupling Filing, the Company treated CIAC consistently with prior filings resulting in no impact to rate base.

Schedule D1, Determination of Rate Base RAM Adjustment – Change in Rate Base

Plant in Service - There is no change in rate base for plant in service and CIAC associated with plant in service. Under NARUC, in rate base, plant in service was the gross cost of plant (net of accumulated depreciation), and CIAC was a separate reduction to rate base. Under FERC, the plant in service amounts are net of (i.e., already reduced by) CIAC, and presented net of accumulated depreciation in the calculation of rate base. There is no separate CIAC line item reducing rate base because it is already net in utility plant. Therefore, there is no net rate base impact. The difference between NARUC and FERC for plant in service is a matter of where the costs are classified in rate base, and not a matter of inclusion or exclusion of costs in rate base.

CIAC associated with CWIP - There is no change in rate base for CIAC associated with CWIP. Previously, presentation of CIAC aligned with NARUC and all CIAC, including amounts associated with projects in CWIP, were included as a reduction to rate base under account 271. The 2019 estimated balance continues the treatment of including the CIAC in CWIP to be consistent with the recorded balance at 2018 year-end because all 2019 estimated CIAC additions have been included at Schedule D2 and included as part of net cost of plant at Schedule D1. Although the treatment described above was used in the 2019 annual decoupling filing, see Company's requested treatment to exclude CIAC associated with CWIP from rate base in future filings in the discussion below.

Developer Advances - With the transition to FERC, CIAC is credited when received against the related project costs in CWIP. To the extent funds are not yet expended for a project in

CWIP, the CIAC will be classified as developer advances and deducted in the calculation of rate base at Schedule D1. The recorded balance at 2018 year-end is not adjusted for 2019 activity as it is incorporated in Schedule D2.

Schedule D2, Determination of Baseline Capital Projects Additions

Schedule D2 was revised to incorporate the baseline and major project CIAC (including Developer Advances) for 2014 to 2017 into the baseline average calculation of net plant in service, consistent with the presentation of rate base. The 2018 CIAC additions calculated at HECO-WP-D2-003 includes additions to CIAC from all sources, i.e. Plant, CWIP and Developer Advances, which were used in the 5-year baseline calculation. As a result, the estimated 2019 additions to CIAC in CWIP and Developer Advances balances at Schedule D1 for the Change in Rate Base are not required as they are already included in the net cost of plant line item.

Schedule E, Determination of Depreciation & Amortization RAM Adjustment

FERC Uniform System of Accounts Electric Plant Instructions, 2. Electric Plant To Be Recorded at Cost. D. states, "The electric plant accounts shall not include the cost or other value of electric plant contributed to the company." Therefore, the Recorded Depreciable/ Amortizable Balances at December 31, 2018 in Schedule E represents plant in service net of CIAC which is used as the basis to estimate the 2019 annual accrual amount. In calculating the 2019 RAM Depreciation and Amortization, Depreciation and Amortization in Current Revenues also includes CIAC amortization approved in the 2017 Test Year.

Schedule F & F1, Determination of Change in Deferred Income Taxes & Tax Depreciation

The methodology for computing the deferred taxes related to RAM year tax depreciation was not changed within the 2019 annual decoupling filing. Gross plant additions are used as the basis for calculating tax depreciation. However, see the CIAC impact to ADIT section below for the Company's preferred treatment considering the effects of netting CIAC against plant in service.

Schedule G-series, CIAC

Schedule G, G1 and G2 were removed from the Decoupling filings and instead incorporated into either Plant in Service, CIAC in CWIP or Developer Advances. The December 31, 2018 balances for CIAC associated with CWIP and Developer Advances were extracted from PowerPlan. Additionally, as noted above, the calculation of the 5-year baseline average of CIAC and amortization was incorporated within Schedule D2 and Schedule E, respectively.

The Company will continue to include CIAC associated with CWIP and Developer Advances as a reduction to rate base until the FERC presentation of rate base is approved in the Company's next rate case.

Company's requested CIAC treatment

The Company requests to reflect the following changes to the treatment of CIAC within the annual decoupling filings.

CIAC associated with CWIP

In Mr. Franklin's T-12 direct testimony in Hawaii Electric Light's 2019 Test Year rate case, the Company proposes to remove CIAC associated with CWIP from the calculation of rate base due to the fact that CWIP net of associated CIAC earns AFUDC, therefore the CWIP and its associated CIAC should be excluded from rate base.

Excluding CWIP net of CIAC, to better align the source of funds with its use (i.e. the CIAC funds received were applied against the costs incurred for the project) and is therefore properly excluded from the calculation of rate base. In addition, and as mentioned previously, any material CIAC received in advance of construction expenditures will continue to be deductions in the calculation of rate base as Developer Advances.

CIAC impact to ADIT

ADIT associated with CIAC in CWIP should be divided between nontaxable and taxable CIAC. Nontaxable CIAC (primarily interconnection CIAC) is treated as a reduction in basis for both book and tax purposes. On the other hand, although taxable CIAC is also a reduction in basis for book purposes, for tax purposes, the receipt of taxable CIAC creates tax basis by way of the recognition of taxable income and reverses by way of tax depreciation.

Nontaxable CIAC does not create ADIT since there is no book tax difference. Consequently, the regulatory netting of nontaxable CIAC against the plant assets should not create any issue with respect to the ADIT beginning balance for the rate base RAM calculation

Taxable CIAC generates a Deferred Tax Asset (DTA) as it is received and recorded into CWIP under the new FERC accounting. Prior NARUC accounting treatment with account 271 created DTA as CIAC was booked to 271, which is equivalent to what is now booked to CWIP. The origination and timing of the DTA under the FERC method will be equivalent to the NARUC method. However, under the old method, the DTA was immediately recognized as part of rate base, consistent with the treatment of the account 271 inclusion. However, under the FERC method, the generation of the DTA must be inventoried and tracked to match up with the amount of CIAC in CWIP and the amounts closed to plant in service. This tracking is necessary to ensure that the amount of DTA related to CWIP is excluded from rate base. Once CWIP costs are closed to plant, the related DTA will be included in rate base and will begin reversal through tax depreciation taken on the CIAC tax basis.

FERC accounting imbeds the book treatment of CIAC within CWIP and the ultimate plant and related depreciation. The separation will disappear and the Company asserts that the ADIT

effects will be the same with respect to the beginning balance of ADIT for the annual decoupling filing except to the extent CIAC is still in CWIP. This issue will be addressed along with the rate base treatment of CIAC associated with CWIP as mentioned above.

FERC accounting nets CIAC against Plant in Service for purposes of computing baseline and major plant additions. For RAM year tax depreciation and the related ADIT calculated for the change in RAM year ADIT, adopting the net plant additions as the RAM year tax additions will be a change that will result in a smaller amount of tax depreciation and ADIT "change" since the Company previously has assumed the gross additions to be the RAM year tax depreciable base. The Company asserts this is reasonable for the following reasons:

- 1) Under the old method, to the extent nontaxable CIAC was included in the RAM year numbers (through major projects or baseline projects), tax depreciable basis was overstated since there is no tax basis for assets funded by nontaxable CIAC.
- 2) With respect to taxable CIAC, the funded assets do have depreciable tax basis and it is accounted for in the RAM year additions tax depreciation. However, the receipt of taxable CIAC generates taxable income and deferred tax assets that increase rate base. The effect of this DTA from taxable CIAC was never recognized in the RAM tariff, which resulted in an overstatement of RAM year ADIT change, as it related to the projected plant additions.

For purposes of the 2019 RAM calculation, ADIT has been calculated on gross plant additions, consistent with the 2017 Test Year treatment and prior decoupling filings, however the Company is requesting treatment of CIAC in deferred tax to follow FERC accounting.

Summary

In summary, Hawaiian Electric prepared the 2019 annual decoupling filings in accordance with the historical treatment of CIAC. Historically, due to system constraints, CIAC records were not maintained with matching of the separate components (plant in service, CWIP, developer advances). As a result, the entire amount of CIAC was treated as a reduction to rate base and the Return on Investment was understated. As stated in Mr. Franklin's T-12 direct testimony in Hawaii Electric Light's 2019 Test Year rate case, the Companies propose to exclude the CIAC associated with CWIP in its calculation of rate base in the rate base RAM filings. Should the Commission approve Hawaii Electric Light's proposal, Hawaiian Electric will implement this change in the annual decoupling filing in the year following the Commission's approval.

Hawaiian Electric Company, Inc. Revenue Decoupling - Rate Base RAM 2018 Major Projects and Other Plant Additions, Net of CIAC

| | | | | | | | | NET CALCULAT | TON | | | | | |
|------------|------------------|---------------------------|-------------------------------------|---|-------------------------------------|-----------------------|-------------------|---------------------|-------------------------------------|---------------------|------|-------------------------------------|------------------------------|-----------|
| | | | | | [1] | [2] 2018 Pla | nt Additions, Net | of CIAC | | [3] | | | | |
| | Grand parent | Project # | Project | Plant Addition Date | Net Plant Adds Thru 12/31/17 | Total Project Cost | CIAC & Adjs | Net Project Cost | Net Plant Adds Thru 12/31/18 | Net PUC Approved | | Over/(Under) Net PUC Approved | Functional Plant Category | |
| | | | | | (A) | (B) | (C) | (D) = (B) + (C) | (E) = (A) + (D) | (F) | | (E) - (F) | | _ |
| 1 | 8 Major Pro - | <u>ojects</u> P0001370 | DOT Airport DSG | 2018 straggling | 3,336,179 | (3,516) | (96,602) | (100,118) | 3,236,061 | 3,400,139 | [3a] | (164,078) | Production Other | |
| 2 | - | P0002264 | Pukele 80MVA Tsf #1 | 2018 straggling | 3,846,733 | - | - | - | 3,846,733 | 3,846,733 | [3a] | - | Transmission | |
| 3 | Y00038 | (P0000672) (P0001579) | | 2018 straggling 2018 straggling 2018 straggling | 7,243,799 5,023,851 1,969,969 | | - - - | - - - | 7,243,799 5,023,851 1,969,969 | | | | | |
| | | PZ.000001 PZ.000003 | | | 14,237,619 | | | | 14,237,619 | 14,537,623 | [3a] | (300,004) | Distribution | |
| 4 | Y00168 | | ERP EAM Hardware | 2018 straggling | 2,604,146 | - | - | - | 2,604,146 | 2,590,000 | [3b] | 14,146 | Computers | To Sch D1 |
| 5 | | PE.005155 | Joint Pole Capital Transfer Price | 201812 | - | 24,665,897 | - | 24,665,897 | 24,665,897 | 24,665,897 | [3c] | - | Distribution | |
| <u>Oth</u> | <u>er</u> | DE 000104 | | | | | | | | | | | | |
| 6 | - | PE.000104 (P0003465) | Koolau-Wailupe #1 Str 30 P9 Replace | 2018 straggling | 2,684,387 | 13,203 | - | 13,203 | 2,697,590 | 2,555,619 | [3d] | 141,971 | Transmission | To Sch D1 |
| <u>Maj</u> | or Project i | | very (MPIR) Projects | | | | | | | | | | | |
| | | PZ.000016/ PZ001002 | | | | | | | | | | | | |
| 7 | - | (P0001576) | Schofield Generation Station | 201806 | - | 144,743,542 | - | 144,743,542 | 144,743,542 | - | [4] | 144,743,542 | Production Other | To Sch D1 |

- [1] Transmittal No. 18-01 (Decoupling) Hawaiian Electric Company RBA Rate Adjustment, HECO-WP-D2-001, filed on May 29, 2018.
- [2] Hawaiian Electric Companies' Exemption From and Modification of General Order No. 7 Paragraph No. 2.3(g), Relating to Capital Improvements Capital Projects Completed in 2018, in Docket No. 03-0257, filed on March 27, 2019. See HECO-WP-D2-002
- [3] Per the Final Decision & Order and Dissenting Opinion of Leslie H. Kondo, Commissioner, filed on August 31, 2010, in Docket No. 2008-0274, on page 54, "for purposes of calculating the Rate Base for the RAM, the costs on Major Capital Projects shall be limited to those amounts most recently approved, e.g., when authorized in the commission's decision approving the HECO Companies' application in compliance with General Order No. 7 or in an interim or final decision and order issued by the commission in the HECO companies' rate cases."
- [3a] Net PUC Approved amount was derived from the Hawaiian Electric 2017 Test Year Rate Case, filed in Docket No. 2016-0328, in response to CA-IR-303 and CA-IR-304 which updated 2016 Plant Additions and CIAC for actuals through December 31, 2016 and revised forecast for 2017. See calculation below:

| | Do | OT Airport DSG | | Pu | kele 80MVA Tsf#1 | | | Kakaako Makai | |
|--|-----------|----------------|-----------|-----------|------------------|-----------|------------|---------------|------------|
| | Gross | CIAC | Net | Gross | CIAC | Net | Gross | CIAC | Net |
| Gross/Net Plant Adds Thru 12/31/16) - column [1] | 5,235,178 | (1,993,000) | 3,242,178 | 3,839,121 | - | 3,839,121 | 18,338,808 | (2,825,023) | 15,513,785 |
| 2017 Plant Addition (CA-IR-303, Att 2) | 157,961 | - | 157,961 | 7,612 | - | 7,612 | (76,162) | - | (76,162) |
| 2017 CIAC Estimate (CA-IR-304, Att 2) | - | - | - | - | - | - | - | (900,000) | (900,000) |
| Derived PUC Approved | 5,393,139 | (1,993,000) | 3,400,139 | 3,846,733 | - | 3,846,733 | 18,262,646 | (3,725,023) | 14,537,623 |

- [3b] Per Decision and Order No. 33861, page 4, Docket No. 2014-0170, For Approval of an Enterprise Resource Planning and Enterprise Asset Management System Implementation Project and Related Accounting Treatment, filed August 11, 2016.
- [3c] Per Decision and Order No. 35768, Docket No. 2018-0075, For Approval of the Transfer of Equity Ownership Interest in Certain Joint Poles, to Commit Funds in Excess of \$2,500,000, Accounting and Ratemaking Treatment, Amendments to Joint Pole Agreements Between the Applicants, Asset Transfer Agreement, and Pole Licensing Agreement, file October 16, 2018. The Commission approved the acquisition of Hawaiian Telcom's joint pole equity ownership shares, valued at \$47,970,092, of which \$24,665.897 was related to Hawaiian Electric.
- [3d] In the 2017 Fourth Quarter Capital Projects Status Report filed on February 28, 2018, Hawaiian Electric identified that the project costs had unexpectedly exceeded \$2,500,000 and provided an explanation for the higher costs. Project cost is limited for rate base RAM recovery to the amount identified in Hawaiian Electric's response to CA-IR-303, Attachment 2, page 3 of 7), filed in Docket No. 2016-0328, Hawaiian Electric 2017 Test Year Rate Case.
- [4] Project to be recovered through the MPIR mechanism and therefore the entire project will be removed from the RAM Revenue Adjustment Calculation. See Notice Transmittal to Update Target Revenue for Schofield Generating Station through the Major Project Interim Recovery Adjustment Recovery Mechanism, filed February 7, 2019, Transmittal No. 19-01 effective January 1, 2019. MPIR Recovery calculated at the Schedule L series.

2018 General Order No. 7 (GO7) Report Summary Plant Additions

| | 2018 |
|---------------------------------------|--------------------|
| Projects | Plant Addition (1) |
| Less than \$2.5M | 189,284,505 |
| Greater than \$2.5M | 169,419,126 |
| Total Plant Additions - Gross | 358,703,631 |
| | To Sch D2, line 1 |
| Less: Major Project additions in 2018 | |
| DOT Airport DSG | 3,516 |
| Koolau-Wailupe #1 Str 30 P9 Replace | (13,203) |
| Schofield Generation Station | (144,743,542) |
| Joint Pole Transfer Price | (24,665,897) |
| | (169,419,126) |
| Baseline Plant Additions - Gross | 189,284,505 |

⁽¹⁾ Source: Hawaiian Electric Companies' Exemption From and Modification General Order No. 7 Paragraph No. 2.3(g), Relating to Capital Improvements Capital Projects Completed in 2018, in Docket No. 03-0257 filed on March 27, 2019.

Hawaiian Electric Company, Inc. CIAC Reconciliation

As of December 31, 2018

| - | | |
|-----|------|--|
| - 1 | 1110 | |
| _ | | |

| No. | Description | Reference | CIAC, Including Devel | oper Advances |
|-----|--------------------------------------|---------------------------------|-----------------------|---------------|
| | (a) | (b) | (c) | |
| 1 | 12/31/17 Balance | 5/29/18 Decoupling, Sch G1 | (366,100,380) | |
| 2 | Exclude: Non-Utility CIAC | | 618,464 | |
| 3 | Add: Developer Advances | _ | (33,883,949) | |
| 4 | 12/31/17 Balance - Utility CIAC | \bigvee | (399,365,865) | |
| 5 | 9/30/18 Balance | GL #271 | (378,238,665) | |
| 6 | Exclude: Non-Utility CIAC | Line 2 | 618,464 | |
| 7 | Add: Developer Advances | GL #2520300 | (34,163,852) | |
| 8 | 9/30/18 Balance - Utility CIAC | Line 4 + Line 5 | (411,784,053) | |
| 9 | CIAC Change Thru 9/30/18 - Utility | Line 6 - Line 3 | | (12,418,188) |
| 10 | Add Back: 2018 CIAC Amortization | 5/29/18 Decoupling, Sch G3 | | |
| | thru 9/30/18 | (8,818,605 x 9/12) | 8,818,605 | (6,613,954) |
| 11 | CIAC Additions Thru 9/30/18 | | | (19,032,141) |
| 12 | Oct to Dec 2018 Activity | | | |
| 13 | CIAC-Cash Tax | GL #60005200 | (6,435,124) | |
| 14 | CIAC-Cash Non-Tax | GL #60005201 | (831,921) | |
| 15 | CIAC-Settlement | GL #60050221 | 174,515 | |
| 16 | CIAC-In-Kind | GL #60005206 | (3,443,756) | |
| 17 | | • | | (10,536,286) |
| 18 | 2018 CIAC Additions, included within | in Plant in Service, CWIP, Deve | eloper Advances | (29,568,427) |
| | | | | To Sch D2 |

Purpose:

Starting October 1, 2018, the Company adopted FERC guidelines resulting in CIAC being netted with Plant via Plant Additions or CWIP. This workpaper calculates the 2018 CIAC additions by summing the CIAC activity from January 1 to September 30, 2018 (per Ellipse) with the CIAC activity from October 1 to December 31, 2018 (per SAP and Powerplan WBS) for inclusion in the Baseline Plant Additions calculation at Schedule D2. Beginning with calendar year 2019, Baseline Plant Additions will be shown net of CIAC.

Note 1:

See HECO-WP-D1-001 for documentation on the treatment of CIAC in the 2019 Decoupling Filing.

EXCERPT: Transmittal 18-01, Schedule G1, filed 5/29/18.

SCHEDULE G1 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK BASELINE CAPITAL PROJECTS CIAC ADDITIONS

Source of CIAC balance and amort.: December Monthly Reports filed (non-confidential basis) with the PUC dated:

| 1 2 3 | Total Net CIAC & Developer Advance Add | | | 25,138,983 | 31,759,325 | 42,125,490 | 33,488,540 | 59,849,268 |
|-------------|--|------------------------|--------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1 | ERP EAW natuwate | | | | | | | |
| / | ERP EAM Hardware | 2014-0170 | Y00168 | | | | | |
|) | 2017 In-Service: | | | | | | | |
| ; | Pukele 80MVA Tsf #1 | 2011-0156 | P0002264 | | | | | |
| | 2016 In-Service: | | | | | | | |
| | DOT Airport DSG | 2008-0329 | P0001370 | | | | | |
| 1 | Pukele 80MVA Tsf #2 | 2011-0156 | P0001492 | | | | | |
| 3 | BPT Tank 133 Improvements | 2010-0318 | P0000900 | | | | ' | |
| 2 | Kakaako Makai DOT Queen-Cook | 2009-0042 | Y00038 | | | | (2,825,023) | Schedule D2 |
| ı | Kakaako Makai-Kewalo 25kV DL | 2009-0042 | Y00038 | | | | | |
| 9 | Kaloi Telecomm Kaloi Sub 12kV Work | 2008-0070 2008-0070 | Y00119 Y00119 | | | | | |
| 3 | Kaloi Sub 46kV & 12kV Distr | 2008-0070 | Y00119 | | | | | |
| 7 | Kaloi Substation | 2008-0070 | Y00119 | | | | | |
| 3 | 2014 In-Service: | | | | | | | |
| 5 | | _500 00.0 | | | | | | |
| 4 | North South Road 46kV Line | 2008-0070 | Y00119 | | | | | |
| 2 3 | Kaloi Substation - Land - NOTE (2) | 2009-0042 | Y00119 | | | | | |
| 2 | Kakaako Makai-Iwilei 25kV DL | 2011-0156 | Y0001494 Y00038 | | | | | |
| 0 1 | 2013 In-Service: Pukele 80MVA Tsf #3 | 2011-0156 | P0001494 | | | | | |
| 9 | 0040 la Camilan | | | | | | | |
| 8 | Kapolei Substation | 2011-0026 | Y00127 | | | | | |
| 7 | Mobile Radio Replacement | 2010-0162 | P0001595 | | | | | |
| 6 | BPT Tank 132 Improvements | 2010-0286 | P0000899 | | | | | |
| 5 | K1 Condenser Tube Replace | 2010-0126 | P0000681 | | | | | |
| 4 | 2012 In-Service: | | | | | | | |
| 3 | Wo Main Hansionnei Nepiace | | 1 000 1000 | | | | | |
| 2 | W8 Main Transformer Replace | 2009-0195 | P0001399 | | | | | |
| 1 | W7 Controls Upgrade | 2009-0195 | P7590000 | (07,334) | (+3,723) | (10,202) | (7 10) | Schedule D2 |
| 9 | W8 Boiler Controls Upgrade EOTP Ph. 2 (Subs/Switch Stations) | 2007-0365 2010-0062 | P7650000 Y48500 | (87,994) | (43,725) | (15,232) | (719) | Calcadul - DO |
| 3 | 2011 In-Service: | 2007 0225 | DZCEOOOC | | | | | |
| 7 | | | | | | | | |
| 6 | K3 Biofuel Co-Firing | 2009-0155 | P0001577 | | | | | |
| 5 | 2010 In-service: | | | | | | | |
| 4 | | | | | | | | |
| 3 | CIP Generating Unit | 05-0145 | Y49000 | | | | | |
| 2 | 2008 In-service: | | | | | | | |
| 0 1 | Less Major Projects: | Dkt No. | Item No. | | | | | |
| | | 51.41 | | | | | | |
| 9 | Total Adjusted CIAC & Developer Advance | e Additions | (- / | 25,226,977 | 31,803,050 | 42,140,722 | 36,314,281 | 59,849,268 Schedu |
| 9 | Add Developer Advances: | | NOTE (4) | _ | _ | _ | - | 33,883,949 |
| 3 | Total Adjusted CIAC Additions | (Sum Line 3, 4 & 7 | 7) | 25,226,977 | 31,803,050 | 42,140,722 | 36,314,281 | 25,965,319 |
| | Less: Adjusted CIAC Balance, December 31 | | | 258,084,169 | 283,739,660 | 319,109,234 | 347,020,076 | 365,481,916 To Sch G |
|) , | Less: Non-Utility CIAC | | NOTE (3) | 250,004,460 | - 202 720 660 | (618,464) | (618,464) 347,826,078 | (618,464) |
| ; | CIAC Balance, December 31 (Dec Rpt. pg. 1 | 0) | | 258,084,169 | 283,739,660 | 319,727,698 | 348,444,542 | 366,100,380 |
| | Less. CIAC Amortization (Dec 14pt. pg. 2) | | | 3,032,912 | 0,147,339 | 0,771,140 | 1,551,451 | 0,303,401 |
| 3 1 | Adjusted CIAC Balance, January 1 Less: CIAC Amortization (Dec Rpt. pg. 2) | | | (238,510,104) 5,652,912 | (258,084,169) 6,147,559 | (283,739,660) 6,771,148 | (319,109,234) 7,597,437 | (347,826,078) 8,309,481 |
| | Less: Non-Utility CIAC | | NOTE (3) | | | | 618,464 | 618,464 |
| | CIAC Balance, January 1 (Dec Rpt. pg. 10) | | | (238,510,104) | (258,084,169) | (283,739,660) | (319,727,698) | (348,444,542) |
| | (a | 1) | | (b) | (c) | (d) | (e) | (f) |
|). | Descri | | | 2013 | 2014 | 2015 | 2016 | 2017 |
| ie | | | | | | | | |
| | | | | 2/21/2014 | 2/26/2015 | 2/23/2016 | 2/24/2017 | 3/1/2018 |

NOTE (1): The CIAC amounts of the major projects are reflected in the year that they were received. In previous Decoupling filings these amounts were from the respective year's GO7 plant addition annual reports which reports the CIAC in the year the project closed to plant. In the past, the total CIAC additions, which reflect actual contributions received in the year, may not have included the total major project CIAC from the GO7 report to the extent that the CIAC was received in advance, or in multiple payments over a span of more than one year. Source: UI Planner files: Actuals Scenario.

NOTE (2): CIAC received for this project was not reflected in the 2012 and 2013 Decoupling filings as previous filings reported the CIAC amounts of the major projects from the respective year's GO7 plant addition annual report which reports the CIAC in the year the project closed to plant. See GENERAL NOTE.

NOTE (3): Adjustment to remove non-utility project related CIAC from the general ledger balance. Chapin UG Duct Line is a non-utility asset. It is a contributed asset that was given to the Company. It is not being used and there are currently no plans to use it. See Schedule G3, Line 96. Adjusted CIAC Additions for 2016 was corrected to exclude the non-utility plant balance from the beginning balance.

NOTE (4): In 2017, the Company reclassed the portion of CIAC for projects where the cash balance received was in excess of total incurred costs since the project agreements include provisions which allow for instances that unapplied funds received in advance would be subject to refunds. The true-up provision allows for any excess funds not expended to be refunded back to the developer. Furthermore, between the timing of the cash receipt to the project completion date, the project could be terminated, which would then result in refund of the unapplied funds. See below for a reconciliation of the Customer Advance balance at December 31, 2017:

 Customer Advance (#25200000)
 4,239,163

 Developer Advances (#25203000)
 33,883,949

 Customer Advances
 38,123,112
 SOURCE: HECO Monthly Financial Report - December 2017, page 10, filed March 1, 2018.

The unapplied developer funds received in advance (Developer Advances) are excluded from the CIAC balance subject to amortization until they are reclassified to CIAC as costs are incurred. Developer Advances are included in the calculation of the Last Five-Year Average because they represent funds received in advance and are expected to be reclassified to CIAC as costs are incurred in the current year. Developer advances were also included in the Unamortized CIAC balance (See "Average Rate Base" from HECO Decision and Order No 35280, filed 2/9/2018 of Docket No. 2016-0328).

Hawaiian Electric Company 2019 Plant Additions Net of CIAC - Major Projects Support

| Grand- parent | Project | Functional Category | Plant Addition Date | Net PUC Approved [1] A | Net Plant Adds thru 12/31/18 [2] | 2019 Net Plant Additions [3] | 2019 CIAC Additions [3] | 2019 Net Project Costs F = D + E | Estimated Net Plant Adds thru 12/31/19 $G = C + F$ | Over/ (Under) Net PUC Approved $H = A - G$ | 2019 Net Plant Addition Qualifying for RB RAM (Note A) |
|------------------|--|-----------------------------|---------------------------|------------------------------|--|------------------------------|-------------------------------|------------------------------------|--|--|--|
| | PE.000209 (P0003975): AES CEIP #2 138kV OH Trans Line Relocation | Transmission >=69kV | 2019/02 | 3,007,232 [1a] | - | 4,091,987 | | 4,091,987 | 4,091,987 | 1,084,755 | 3,007,232 |
| | PG.000005/PZ.001001 (P0003966): West Loch Utility Scale PV | Production- Photovoltaic | 2019/05 | 62,400,000 [1b] | - | 52,128,000 | | 52,128,000 | 52,128,000 | (10,272,000) | 52,128,000 |
| | PZ.000015 (P0000974, P0003977): Ala Wai Canal 46kV Relocation | Transmission <69kV | 2019/06 | 13,910,207 [1c] | - | 20,300,268 | | 20,300,268 | 20,300,268 | 6,390,061 | 13,910,207 |
| Y00038 | P0000672: Kakaako Makai- Kewalo 25kV DL P0000783: Kakaako Makai- | | 2014/04 | 7,243,799 | 7,243,799 | | | | | | |
| | Iwilei 25kV DL P0001579: Kakaako Makai | | 2013/07 | 5,023,851 | 5,023,851 | | | | | | |
| | DOT Queen-Cook | Distribution | 2014/04 _ | 1,969,969 14,237,619 [1d] | 1,969,969 14,237,619 | - | (22,683) | (22,683) | 14,214,936 | (22,683) | (22,683) |

69,022,756 To Sch D3

e amount qualifying for 2019

- NOTE A: Amount qualifying for 2019 rate base RAM recovery is limited to the lower of the net plant addition (column D) or the net PUC approved amount (column A). In the case of straggling costs, the amount qualifying for 2019 rate base RAM recovery is limited to the lower of the 2019 net plant addition (column D) or the remaining unused balance of the net PUC approved amount.
 - [1] Per the Final Decision & Order and Dissenting Opinion of Leslie H. Kondo, Commissioner, filed on August 31, 2010, in Docket No. 2008-0274, on page 54, "for purposes of calculating the Rate Base for the RAM, the costs on Major Capital Projects shall be limited to those amounts most recently approved, e.g., when authorized in the commission's decision approving the HECO Companies' application in compliance with General Order No. 7 or in an interim or final decision and order issued by the commission in the HECO companies' rate cases."
 - [1a] Decision and Order No. 35312 in Docket No. 2016-0439, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for the P0003975 AES-CEIP 2 138 kV Overhead Transmission Line Relocation Project, filed March 2, 2018.
 - [1b] Decision and Order No. 34676 in Docket No. 2016-0342, For Approval of Waiver from the Framework for Competitive Bidding and to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for the Purchase and Installation of Item P0003966 West Loch PV Project, filed June 30, 2017.
 - [1c] Decision and Order No. 34788 in Docket No. 2016-0416, For Approval to Commit Funds in Excess of \$2,500,000 for Item P0000974, Ala Wai Canal 46 kV Underground Line Construction and Item P0003977, Ala Wai Canal Easement Acquisition and Related Requests, filed September 1, 2017.
 - [1d] See HECO-WP-D2-001, Note [3a].
 - [2] Source: HECO-WP-D2-001.
 - [3] Source: UIPlanner Budget files. Forecast as of February 15, 2019.

| DEFERREI | D INCOME TAXES | | | | |
|----------------|--|-------------------------|-----------------------------|-----------------------|---|
| EDERAL | | DR / (CR) | DR / (CR) | DR / (CR) | |
| | | HECO | HECO | HECO | |
| | | FEDERAL | STATE | TOTAL | |
| OR / (CR) | | LIABILITY | LIABILITY | LIABILITY | |
| LIAB | DESCRIPTION | 12/31/2018 | 12/31/2018 | 12/31/2018 | |
| | | | | | |
| 28311 | Unearned Lease | - (0.17.001.00) | - (0.4.500.0.4) | - (000.050.44) | |
| 28312 | Accrued Vacation | (247,391.60) | (81,566.84) | (328,958.44) | |
| 28313 | Uncollectible Acct | 365,876.81 | 111,502.91 | 477,379.72 | |
| 28314 | Directors Def Comp | 8,117.74 | 1,571.96 | 9,689.70 | |
| 28317 | Discounted Work Comp | 313,824.26 | 95,894.48 | 409,718.74 | |
| 28319 28321 | Cap to Construct (Cost of Removal) Pension | 71,429,406.70 | 21,769,003.09 | 93,198,409.79 | |
| 28323 | Excess Benefit Plan | (15.02) 566,372.66 | 0.31 168,081.11 | (14.71) 734,453.77 | |
| 28326 | Def Exec Comp (Def EICP<IP) | 35,031.69 | 10,677.39 | 45,709.08 | |
| 28327 | Software (no APPRISE & e business | 88,753.66 | 52,874.74 | 141,628.40 | |
| 28328 | G/L ACRS Retirements | (12,405,681.27) | (4,236,659.06) | (16,642,340.33) | |
| 28330 | EICP | (358,728.30) | (125,497.81) | (484,226.11) | |
| 28331 | CIAC | 20,071,371.03 | 10,206,246.04 | 30,277,617.07 | |
| 28332 | Customer Advances | 1,077,639.88 | 327,760.03 | 1,405,399.91 | |
| 28333 | Capitalized Interest | 9.984.224.16 | 3,836,301.98 | 13,820,526.14 | |
| 28335 | Connection Fees | (9,611.91) | (8,444.14) | (18,056.05) | |
| 28336 | Nondeductible Interest | 19,016.26 | 5,795.04 | 24,811.30 | |
| 28337 | Supplemt Benefits - SERP | 272,295.28 | 72,700.74 | 344,996.02 | |
| 28340 | LTIP | 822,110.82 | 250,548.14 | 1,072,658.96 | |
| 28341 | Waipahu Baseyard Int | 67,116.93 | 20,452.91 | 87,569.84 | |
| 28347 | Waiau Water Well Pmts | 79,910.90 | 24,369.66 | 104,280.56 | |
| 28350 | Outage Loss Adj Exp | - | (24,509.00) | (24,509.00) | |
| 28401 | Genl/Auto (& Accidents) | 248,241.27 | 75,654.04 | 323,895.31 | |
| 28403 | CWIP Debt Transition | (160,324.76) | (48,863.15) | (209,187.91) | |
| 28404 | CWIP Equity Trans | (404,087.01) | (123,151.30) | (527,238.31) | |
| 28405 | Iolani Ct Plaza Sale | 17,071.33 | (6,033.56) | 11,037.77 | |
| 28406 | Kaonohi Sale | (22,651.01) | (6,942.61) | (29,593.62) | |
| 28408 | Plant Transition | (3,997,395.48) | (1,218,288.67) | (5,215,684.15) | |
| 28409 | CWIP Equity Net | (17,671,614.37) | (5,385,620.77) | (23,057,235.14) | |
| 28410 | CWIP Equity Grossup | (10,862,867.25) | (3,310,577.99) | (14,173,445.23) | |
| 28411 | CWIP Debt | (9,399,038.35) | (2,868,001.13) | (12,267,039.48) | |
| 28412 | Genl/Auto Liability - Legal | 0.21 | (2,428.89) | (2,428.68) | |
| 28413 | Post Retirement Ben | (875,563.84) | (246,873.67) | (1,122,437.51) | |
| 28414 | Reg Liab Federal ITC | 172,357.16 | 53,366.18 | 225,723.34 | |
| 28418 | IRP Costs | (25,223.69) | (8,107.96) | (33,331.65) | |
| 28419 28422 | Reg Liab Excess 283 Miscellaneous | 115,881.47 17,106.97 | 35,956.40 | 151,837.87 | |
| 28427 | Prepaid Expenses | (915,615.83) | (16,969.99) (279,043.26) | 136.98 (1,194,659.09) | |
| 28432 | Coal Gasif Costs | (915,015.65) | (11,273.00) | (11,273.00) | |
| 28434 | EEO Claims | 452.80 | 138.01 | 590.81 | |
| 28435 | Rev Bond Differential | (106,539.65) | (32,468.74) | (139,008.39) | |
| 28436 | TIP/Rewards Programs | 119,814.53 | 36,774.90 | 156,589.43 | |
| 28441 | Sun Power | 12,330.63 | 3,757.91 | 16,088.54 | |
| 28512 | Revenue Bond Cost Amort. | (678,674.71) | (206,833.19) | (885,507.90) | |
| 28514 | Software (APPRISE only) | (070,074.71) | (22,551.00) | (22,551.00) | |
| 28516 | Honolulu Harbor Reserve | 879,610.69 | 268,072.02 | 1,147,682.71 | |
| 28520 | Deferred Comp - restricted stock | 141,231.75 | 43,041.58 | 184,273.33 | + |
| 28522 | Perry reserve | 64,996.20 | 19,808.00 | 84,804.20 | |
| 28526 | Emissions Fees | 331,750.98 | 101,105.19 | 432,856.17 | |
| 28530 | AES Hawaii PPA | 26,904.63 | 8,199.90 | 35,104.53 | |
| 28532 | CIS Project | (48,966.54) | (14,316.02) | (63,282.56) | |
| 28538 | Rate Case Costs | (287,342.77) | (87,571.54) | (374,914.31) | |
| 28542 | QUIPS amortization | (140,608.50) | (42,852.44) | (183,460.94) | |
| 28544 | OPEB Exec Life | 2,641,514.13 | 805,101.19 | 3,446,615.32 | |
| 28546 | Percentage Repairs Allowance | (1,466,861.75) | (556,699.86) | (2,023,561.61) | |
| 28548 | Cap interest (D&T) | (2,603,450.33) | (1,054,919.70) | (3,658,370.03) | |
| 28550 | E-Business hardware | (19,730.68) | (8,206.93) | (27,937.61) | |
| 28552 | OMS project costs | 262,187.44 | 81,204.84 | 343,392.28 | |
| 28558 | Substation Land - Aiea | - | (2,073.65) | (2,073.65) | |
| 28560 | Solar tax credit | 630.40 | 192.12 | 822.52 | |
| 28564 | HR Suites project costs | (213,369.94) | (67,275.43) | (280,645.37) | |
| 28568 | Solar Saver Program | 43,008.71 | 13,107.14 | 56,115.85 | |
| 28570 | Pension Tracker | (18,456,906.96) | (5,624,946.08) | (24,081,853.04) | |
| 28572 | OPEB Tracker | 1,198,564.16 | 365,276.00 | 1,563,840.16 | |
| 28580 | Blue Earth reserve | (2,163.55) | (659.33) | (2,822.88) | |
| 28584 | RO Water Pipeline | 215,900.82 | 65,798.23 | 281,699.05 | |
| 28590 | Repairs Adjustment | (74,909,026.37) | (22,228,032.86) | (97,137,059.23) | 1 |
| 28592 | Stimulus Funds | 200.17 | 60.96 | 261.13 | |
| 28594 | Budget System Replacement | (135,405.78) | (41,265.98) | (176,671.76) | |
| 28596 28598 | EOTP interest / amort | (2,972.01) | (906.02) | (3,878.03) | |
| 78608 | CIP interest | (116,247.60) | (35,427.08) | (151,674.68) | 1 |

| JELEKKEL | ELECTRIC CO., INC. | | | | |
|--|--|---|---|---|----------|
| EDERAL | NCOME TAXES | DB / (CB) | DR / (CR) | DB / (CB) | |
| EDERAL | | DR / (CR) HECO | HECO | DR / (CR) HECO | |
| | | FEDERAL | STATE | TOTAL | |
| DR / (CR) | | LIABILITY | LIABILITY | LIABILITY | |
| | DESCRIPTION | 12/31/2018 | 12/31/2018 | 12/31/2018 | |
| LIAD | DESCRIPTION | 12/31/2010 | 12/31/2010 | 12/31/2010 | |
| 28602 | Reg Liab Federal PV/EV | 192,541.81 | 58,679.74 | 251,221.54 | |
| | IVR project costs | (174,366.73) | (53,140.93) | (227,507.66) | |
| | Franchise Tax | 1,013,344.05 | 308,828.44 | 1,322,172.49 | |
| | RBA revenues | (7.287.568.48) | (2,220,971.56) | (9.508.540.04) | |
| | NOL - charitable | (6,347.36) | (2,220,971.50) | (6,347.36) | |
| | G/L Lauula | 8.240.41 | (41.55) | 8,198.86 | |
| | Reg Asset - 2017 Excess-other | (3,312,656.78) | (5,623,166.16) | (8,935,822.94) | |
| | ŭ | | , | | |
| | Reg Liab - 2017 Excess-other | 7,289,541.76 | 6,835,162.29 | 14,124,704.06 | |
| | Reg Liab - TRA revenues | 965,858.79 | 294,357.59 | 1,260,216.38 | |
| | PSC/PUC tax | 5,781,313.48 | 1,761,927.88 | 7,543,241.36 | |
| | Waianae Solar | 1,774,655.94 | 540,848.68 | 2,315,504.62 | |
| | HT joint pole unbilled | 875,228.59 | 266,736.90 | 1,141,965.49 | |
| | AOCI - NQ Pension | 624,198.92 | 190,228.31 | 814,427.23 | |
| | AOCI - OPEB Exec Life | (538,268.59) | (164,045.19) | (702,313.78) | |
| | FIN 48 tax | 368,936.00 | 661,176.00 | 1,030,112.00 | |
| | FIN 48 interest | 41,253.93 | 12,572.63 | 53,826.56 | |
| 50000 | Rounding | (709.37) | 364.13 | (345.24) | |
| | | | | | |
| ED ACCO | UNT 283, excluding state ITC | (38,254,016.15) | (6,551,668.15) | (44,805,684.30) | |
| 28310 | State ITC | 11,655,223.12 | 3.534.658.68 | 15,189,881.80 | |
| 200.0 | | 11,000,220.12 | 0,001,000.00 | 10,100,001.00 | |
| | TOTAL ACCOUNT 283 | (26,598,793.02) | (3,017,009.47) | (29,615,802.50) | |
| 9210000 | Accelerated Depreciation | (252,669,067.47) | (48,604,627.78) | (201 272 605 25) | |
| | Accelerated Depreciation Accel. Depr Excess | | | (301,273,695.25) | |
| | | 44,073,568.30 | 13,431,888.93 | 57,505,457.23 | |
| 28210200 | Accel. Depr Deficit | (169,370.14) | (51,202.87) | (220,573.02) | |
| | TOTAL ACCOUNT 282 | (208,764,869.31) | (35,223,941.72) | (243,988,811.04) | To Sch E |
| | | (22-22-22-2 | (22.242.254.22) | (0=0 00 (0 (0 =0) | |
| OTAL DEI | F INCOME TAX - UTILITY | (235,363,662.34) | (38,240,951.20) | (273,604,613.53) | |
| 28210300 | Nonutility Depreciation | 555,767.33 | 265,376.64 | 821,143.97 | |
| 28301001 | Nonutility - Other | 1,029,315.35 | 316,263.16 | 1,345,578.51 | |
| | | | | | |
| | RHI Tax Allocation | - | - | - | |
| 28301002 | RHI Tax Allocation | - | - | - | |
| 28301002 28301003 | UBC Tax Allocation | - | - | | |
| 28301002 28301003 50001 | UBC Tax Allocation Rounding | (2.67) | - - - | (2.67) | |
| 28301002 28301003 50001 | UBC Tax Allocation | - | 581,639.80 | | |
| 28301002 28301003 50001 | UBC Tax Allocation Rounding | (2.67) | - - - | (2.67) | |
| 28301002 28301003 50001 OTAL DEF | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX | (2.67) | 581,639.80 | - (2.67) 2,166,719.82 | |
| 28301002 28301003 50001 OTAL DEF | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION | (2.67) 1,585,080.02 (233,778,582.32) | 581,639.80 (37,659,311.40) | 2,166,719.82 (271,437,893.72) | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX | (2.67) | 581,639.80 | - (2.67) 2,166,719.82 | |
| 28301002 28301003 50001 **OTAL DEF **OTAL DEF **OTAL ACC Less: | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) | 581,639.80 (37,659,311.40) (3,017,009.47) | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL BASI OTAL ACC Less: 28312 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) | 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 | |
| 28301002 28301003 50001 OTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF COTAL ACC Less: 28312 28313 28314 28317 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 28317 28323 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF OTAL ACC Less: 28312 28314 28317 28323 28326 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) | - - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 28314 28317 28323 28326 28330 28336 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 | - - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 28314 28317 28323 28326 28330 28336 28337 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 | - - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF COTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28337 28340 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF OTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28336 28337 28340 28341 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF CATE BASIOTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28336 28336 28337 28340 28341 28341 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF OTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28336 28337 28340 28341 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF OTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28336 28337 28341 28341 28347 28341 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF CATE BASI OTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28336 28336 28337 28340 28341 28347 28347 28350 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 | - - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF CATE BASI OTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28336 28337 28340 28341 28341 28341 28341 28341 28341 28341 28341 28341 28341 28341 28341 28341 28341 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 248,241.27 0.21 | 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 | |
| 28301002 28301003 50001 TOTAL DEF TOTAL DEF TOTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28337 28340 28341 28347 28340 28341 28347 28350 28401 28412 28418 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 - 248,241.27 0.21 (25,223.69) | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) (8,107.96) | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF COTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28337 28340 28341 28347 28340 28341 28341 28341 28342 28340 28340 28401 28418 28412 28418 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 - 248,241.27 0.21 (25,223.69) 17,106.97 | - - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) (8,107.96) (16,969.99) | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28336 28337 28340 28341 28347 28350 28401 28412 28418 28422 28434 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 - 248,241.27 0.21 (25,223.69) 17,106.97 452.80 | 581,639.80 (37,659,311.40) (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) (8,107.96) (16,969.99) 138.01 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28330 28336 28337 28340 28341 28347 28350 28401 28412 28418 28412 28418 28422 28434 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 - 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 | | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 | |
| 28301002 28301003 50001 TOTAL DEF TOTAL DEF TOTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28337 28340 28341 28347 28350 28401 28412 28418 28422 28434 28436 28516 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs Honolulu Harbor Reserve | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 879,610.69 | | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 1,147,682.71 | |
| 28301002 28301003 50001 TOTAL DEF TOTAL DEF TOTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28337 28340 28347 28347 28340 28347 28340 28341 28412 28441 28412 28434 28416 28516 28520 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs Honolulu Harbor Reserve Deferred Comp - restricted stock | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 - 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 879,610.69 141,231.75 | | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,286.89 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 1,147,682.71 184,273.33 | |
| 28301002 28301003 50001 TOTAL DEF TOTAL DEF TOTAL ACC Less: 28312 28313 28314 28317 28323 28336 28337 28340 28337 28340 28341 28347 28350 28441 28412 28418 28422 28434 28436 28520 28522 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs Honolulu Harbor Reserve Deferred Comp - restricted stock Perry reserve | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 879,610.69 141,231.75 64,996.20 | | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 1,147,682.71 184,273.33 84,804.20 | |
| 28301002 28301003 50001 OTAL DEF COTAL DEF COTAL ACC Less: 28312 28314 28317 28323 28330 28336 28336 28337 28340 28341 28347 28340 28441 28412 28418 28422 28434 28436 28516 28520 28522 28538 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs Honolulu Harbor Reserve Deferred Comp - restricted stock Perry reserve Rate Case Costs | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 - 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 879,610.69 141,231.75 64,996.20 (287,342.77) | - - - - - - - - - - - - - - - - - - - | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 1,147,682.71 184,273.33 84,804.20 (374,914.31) | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF COTAL ACC Less: 28312 28314 28317 28323 28330 28336 28336 28337 28340 28341 28347 28340 28341 28448 28422 28434 28436 28516 28520 28538 28544 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs Honolulu Harbor Reserve Deferred Comp - restricted stock Perry reserve | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 879,610.69 141,231.75 64,996.20 | | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 1,147,682.71 184,273.33 84,804.20 | |

| HAWAIIAN | ELECTRIC CO., INC. | | | | |
|--------------|----------------------------------|------------------|-----------------|------------------|-----------|
| DEFERRED | INCOME TAXES | | | | |
| FEDERAL | | DR / (CR) | DR / (CR) | DR / (CR) | |
| | | HECO | HECO | HECO | |
| | | FEDERAL | STATE | TOTAL | |
| DR / (CR) | | LIABILITY | LIABILITY | LIABILITY | |
| LIAB | DESCRIPTION | 12/31/2018 | 12/31/2018 | 12/31/2018 | |
| | | | | | |
| 28580 | Blue Earth reserve | (2,163.55) | (659.33) | (2,822.88) | |
| 28600 | ERP project costs | (1,035,960.90) | (315,721.84) | (1,351,682.74) | |
| 28608 | Franchise Tax | 1,013,344.05 | 308,828.44 | 1,322,172.49 | |
| 28614 | RBA revenues | (7,287,568.48) | (2,220,971.56) | (9,508,540.04) | |
| 28618 | NOL - charitable | (6,347.36) | - | (6,347.36) | |
| 28630 | Reg Liab - TRA revenues | 965,858.79 | 294,357.59 | 1,260,216.38 | |
| 28632 | PSC/PUC tax | 5,781,313.48 | 1,761,927.88 | 7,543,241.36 | |
| 28634 | Waianae Solar | 1,774,655.94 | 540,848.68 | 2,315,504.62 | |
| AOCINQ | AOCI - NQ Pension | 624,198.92 | 190,228.31 | 814,427.23 | |
| AOCIOPEB | AOCI - OPEB Exec Life | (538,268.59) | (164,045.19) | (702,313.78) | |
| 48000 | FIN 48 tax | 368,936.00 | 661,176.00 | 1,030,112.00 | |
| 48002 | FIN 48 interest | 41,253.93 | 12,572.63 | 53,826.56 | |
| | Adjustment for EOTP, CIS and CIP | (114,827.94) | (34,994.66) | (149,822.60) | |
| Total Exclus | sions | 7,351,657.84 | 2,701,979.21 | 10,053,637.05 | |
| Total 283 D | eferred Taxes for Rate Base | (33,950,450.87) | (5,718,988.68) | (39,669,439.55) | To Sch D4 |
| Total 282 D | eferred Taxes for Rate Base | (208,764,869.31) | (35,223,941.72) | (243,988,811.04) | |
| TOTAL DE | FINCOME TAX - RATE BASE | (242,715,320.18) | (40,942,930.41) | (283,658,250.59) | To Sch D4 |

HAWAIIAN ELECTRIC CO., INC. ADIT ON EXCESS DEPRECIATION DECEMBER 31, 2018

| | | eonnos | ERP/EAM HARDWARF | KOOLAU- WAII IIPF #1 | TOTAL |
|----|---|-------------------|---------------------|-------------------------|---------------------|
| | FEDERAL DEFERRED TAXES | 201000 | | | |
| _ | State Tax Depreciation | page 2, 3 | 7,356 | 14,620 | 21,976 |
| 2 | Book Depreciation | HECO-WP-E-001 | (2,829) | (4,211) | (7,040) |
| 3 | Subtotal | Line 1 + Line 2 | 4,527 | 10,409 | 14,936 |
| 4 | Effective Federal Tax Rate | | 19.7368% | 19.7368% | 19.7368% |
| S | Federal Deferred Tax on State Depreciation | Line 3 * Line 4 | 893 | 2,054 | 2,948 |
| 9 | Addback State Tax Depreciation | Line 3 | (4,527) | (10,409) | (14,936) |
| 7 | Federal Tax Depreciation | page 2, 3 | 10,751 | 71,941 | 82,692 |
| ∞ | Book Depreciation | Line 2 | (2,829) | (4,211) | (7,040) |
| 6 | Federal State Difference | Line 6 + 7 + 8 | 3,395 | 57,321 | 60,716 |
| 10 | Tax Rate on Federal Only Adjustment | | 21% | 21% | 21% |
| 11 | Federal Deferred Tax Adjustment | Line 9 * Line 10 | 713 | 12,037 | 12,750 |
| 12 | Total Federal Deferred Taxes | Line 5 + Line 11 | 1,606 | 14,091 | 15,698 |
| | STATE DEFERRED TAXES | | | | 10 3cm D4 |
| 13 | State Tax Depreciation Book Depreciation | Line 1 Line 2 | 7,356 | 14,620 (4,211) | 21,976 (7.040) |
| 15 | Subtotal | Line 13 + Line 14 | 4,527 | 10,409 | 14,936 |
| 16 | Effective State Tax Rate | | 6.0150376% | 6.0150376% | 6.0150376% |
| 17 | Total State Deferred Taxes | Line 15 * Line 16 | 272 | 626 | 868 |
| 18 | TOTAL DEFERRED TAXES | Line 12 + Line 17 | 1,878 | 14,717 | to Sch D4 16,596 |
| | _ | | to Sch D1 | to Sch D1 | to Sch D4 |

HAWAIIAN ELECTRIC CO., INC. EXCESS TAX DEPRECIATION KOOLAU-WAILUPE #1

| 2018 | | 4,648 495 | 5,143 71,941 To nage 1 | | 9,296 495 | 9,791 14,620 To page 1 |
|--------------------------|----------------|--|------------------------|--------|--|------------------------------|
| 2017 | | 86,798 | 66,798 | | 4,829 | 4,829 |
| Bonus | | 50 | 1 | | 0 0 | 1 |
| Life | | 20 | | | 20 | |
| Plant Acet Life Bonus | | Trans | | | Trans | |
| Disallowed Costs | | 128,768 13,203 | 141,971 | | 128,768 13,203 | 141,971 |
| Less PUC Approved Amt | | 2,555,619 | 2,555,619 | | 2,555,619 | 2,555,619 |
| Total Basis | HECO-WP-D2-001 | 2,684,387 | 2,697,590 | | 2,684,387 13,203 | 2,697,590 |
| Description | | Koolau-Wailupe #1 Koolau-Wailupe #1 | Total Cumulative | | Koolau-Wailupe #1 Koolau-Wailupe #1 | Total Cumulative |
| DIS | | v2017 v2018 | | | v2017 v2018 | |
| Project No. | FEDERAL | PE000104 | | HAWAII | PE000104 | |

HAWAIIAN ELECTRIC CO., INC. EXCESS TAX DEPRECIATION ERP/EAM HARDWARE

| Project No. | DIS | Description | Total Basis | Less PUC Approved Amt | Disallowed Costs | Plant Acct Life Bonus | Life | Bonus | 2017 | 2018 |
|-------------|-------|------------------|----------------|--------------------------|---------------------|-----------------------|------|-------|-------|------------------------|
| FEDERAL | | | UECO WE DO OU | | | | | | | |
| P0003205 | v2017 | ERP/EAM Hardware | 2,604,146 | 2,590,000 | 14,146 | 14,146 Computer | S | 50 | 8,488 | 2,263 |
| | | Total | 2,604,146 | 2,590,000 | 14,146 | | | | 8,488 | 2,263 |
| | | Cumulative | | | | | | l | 8,488 | 10,751 To page 1 |
| HAWAII | | | | | | | | | | 10 page 1 |
| P0003205 | v2017 | ERP/EAM Hardware | 2,604,146 | 2,590,000 | 14,146 | 14,146 Computer | S | 0 | 2,829 | 4,527 |
| | | Total | 2,604,146 | 2,590,000 | 14,146 | | | 1 1 | 2,829 | 4,527 |
| | | Cumulative | | | | | | I | 2,829 | 7,356 To page 1 |

HAWAIIAN ELECTRIC CO., INC. MPIR ADIT - SCHOFIELD GENERATING STATION DECEMBER 31, 2018

| DEC | EMIDER 31, 2016 | | | | | | | 2018 |
|-------------|---|-------------------|--------------------------|----------------------------|--------------------------|--------------------------|----------------------|--------------------------|
| | | source | Tax Depreciation | AFUDC | Tax Cap Interest | State ITC | Removal | Total |
| | FEDERAL DEFERRED TAXES |] | (page 2 of 5) | (page 3 of 5) | (page 3 of 5) | (page 3 of 5) | (page 5 of 5) | |
| 1 | State Book/Tax Difference Book Depreciation | HECO-WP-L-001 | (6,856,503) | (11,964,962) | 7,675,319 | 4,216,602 | (185,002) | (7,114,546) |
| 3 | Subtotal | Line 1 + Line 2 | (6,856,503) | (11,964,962) | 7,675,319 | 4,216,602 | (185,002) | (7,114,546) |
| 4 | Effective Federal Tax Rate | | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% |
| 5 | Federal Def Tax on State Book/Tax Diff | Line 3 * Line 4 | (1,353,254) | (2,361,501) | 1,514,862 | 832,222 | (36,513) | (1,404,184) |
| 6 7 8 | Addback State Book/Tax Difference Federal Book/Tax Difference Book Depreciation | Line 3 | 6,856,503 (6,856,502) | 11,964,962 (11,964,962) | (7,675,319) 7,675,319 | (4,216,602) 4,216,602 | 185,002 (185,002) | 7,114,546 (7,114,545) |
| 9 | Federal State Difference | Line $6 + 7 + 8$ | 1 | - | - | - | - | 1 |
| 10 | Tax Rate on Federal Only Adjustment | | 21% | 21% | 21% | 21% | 21% | 21% |
| 11 | Federal Deferred Tax Adjustment | Line 9 * Line 10 | - | - | - | - | - | - |
| 12 | Total Federal Deferred Taxes | Line 5 + Line 11 | (1,353,254) | (2,361,501) | 1,514,862 | 832,222 | (36,513) | (1,404,184) |
| | STATE DEFERRED TAXES |] | | | | | | To Sch D4 |
| 13 14 | | Line 1 Line 2 | (6,856,503) | (11,964,962) | 7,675,319 | 4,216,602 | (185,002) | (7,114,546) |
| 15 | | Line 13 + Line 14 | (6,856,503) | (11,964,962) | 7,675,319 | 4,216,602 | (185,002) | (7,114,546) |
| 16 | Effective State Tax Rate | | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% |
| 17 | Total State Deferred Taxes | Line 15 * Line 16 | (412,421) | (719,697) | 461,673 | 253,630 | (11,128) | (427,943) |
| 18 | TOTAL DEFERRED TAXES | Line 12 + Line 17 | (1,765,675) | (3,081,198) | 1,976,535 | 1,085,852 | (47,641) | To Sch D4 (1,832,127) |

To Sch D4

HAWAIIAN ELECTRIC CO., INC. TAX DEPRECIATION SCHOFIELD GENERATION STATION

| | | | Less: | Add: | | | | | |
|-------------|------------------------------|-------------------|---------------------------------------|-----------|-------------|------------|------|-------|----------------|
| Project No. | Description | Book Basis | AFUDC | TCI | Tax Basis | Plant Acct | Life | Bonus | 2018 |
| | • | | | | | | | | |
| FEDERAL | | | | | | | | | |
| P0001576 | Schofield Generation Station | 65,512,935 | (5,393,539) | 3,459,864 | 63,579,259 | Oth Prod | 15 | 0% | 3,178,963 |
| P0001576 | Schofield Generation Station | 65,512,935 | (5,393,539) | 3,459,864 | 63,579,259 | Oth Prod | 15 | 0% | 3,178,963 |
| P0001576 | Schofield Generation Station | 5,751,969 | (522,427) | 335,128 | 5,564,670 | Trans | 20 | 0% | 208,675 |
| P0001576 | Schofield Generation Station | 5,751,969 | (522,427) | 335,128 | 5,564,670 | Trans | 20 | 0% | 208,675 |
| P0001576 | Schofield Generation Station | 1,106,868 | (66,514) | 42,668 | 1,083,021 | Comm | 20 | 0% | 40,613 |
| P0001576 | Schofield Generation Station | 1,106,868 | (66,514) | 42,668 | 1,083,021 | Comm | 20 | 0% | 40,613 |
| | Total | 144 742 542 | (11,964,962) | 7 675 210 | 140,453,899 | | | | 6,856,502 |
| | | 144,743,542 | (11,904,902) | 7,675,319 | 140,433,899 | | | | |
| | Cumulative | | | | | | | | To page 1 of 5 |
| HAWAII | I | | | | | | | | |
| | | | | | | | | | |
| P0001576 | Schofield Generation Station | 131,025,869 | (10,787,079) | 6,919,727 | 127,158,518 | Oth Prod | 15 | 0 | 6,357,926 |
| P0001576 | Schofield Generation Station | 11,503,937 | (1,044,854) | 670,256 | 11,129,339 | Trans | 20 | 0 | 417,350 |
| P0001576 | Schofield Generation Station | 2,213,736 | (133,029) | 85,336 | 2,166,043 | Comm | 20 | 0 | 81,227 |
| | Total | 144,743,542 | (11,964,962) | 7,675,319 | 140,453,899 | | | | 6,856,503 |
| | Cumulative | | · · · · · · · · · · · · · · · · · · · | | | | | | To page 1 of 5 |

Hawaiian Electric Company, Inc. Breakdown of SGS Costs by Major Area Actuals through December 2018

| TOTAL PLANT ADDITIONS: | A | В | C | D | E=SUM(B:D) | F=A+E | |
|-------------------------------|---|-----------|-----------|-----------------------|--------------------------|---------------|------------------|
| Expense Element | Generating Station and Switchyard | 46kV Line | Telecom | Wahiawa Substation | Total Interconnection | Total Project | State ITC |
| Labor | 2,293,428 | 1,712,982 | 305,919 | 741,234 | 2,760,135 | 5,053,564 | |
| Materials | 32,932,285 | 1,523,772 | 545,040 | 512,566 | 2,581,378 | 35,513,663 | 35,513,663 |
| Vehicles | 2,062 | 117,109 | 187 | 563 | 117,859 | 119,921 | |
| Overheads | 12,885,912 | 2,456,221 | 544,975 | 928,736 | 3,929,932 | 16,815,844 | |
| AFUDC | 10,787,079 | 703,160 | 133,029 | 341,694 | 1,177,883 | 11,964,962 | |
| Outside Services-Construction | 69,147,360 | 614,746 | 59,095 | 80,179 | 754,019 | 69,901,379 | 69,901,379 |
| Outside Services-Other | 2,550,389 | 1,421,977 | 621,195 | 348,999 | 2,392,171 | 4,942,560 | |
| Other | 427,354 | - | 4,296 | - | 4,296 | 431,650 | |
| _ | 131,025,869 | 8,549,966 | 2,213,736 | 2,953,971 | 13,717,673 | 144,743,542 | |
| Amount subject to bonus (A) | 50% | 50% | 50% | 50% | 50% | 50% | 105,415,043 |
| - - | 65,512,935 | 4,274,983 | 1,106,868 | 1,476,985 | 6,858,836 | 72,371,771 | 4% |
| - | | | | | | | 4,216,602 |
| | | | 5,751,969 | | | | To page 1 of 5 |
| Tie out of TCI: | | | | | | | |
| AFUDC | 10,787,079 | 703,160 | 133,029 | 341,694 | 1,177,883 | 11,964,962 | To page 1 of 5 |
| ratio - 5 year average | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | From page 4 of 5 |
| TCI | 6,919,727 | 451,065 | 85,336 | 219,191 | 755,592 | 7,675,319 | To page 1 of 5 |
| | | | 670,256 | | | | |

Source: Ellipse & SAP

(A) - At year end, no bonus depreciation was taken for Schofield Generation Station. See page 2 for tax depreciation calculation.

Hawaiian Electric Company, Inc. Annual - TCI Closed to AFUDC Closed Ratio

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | 5 Yr Ave |
|-------|-------------|-------------|-------------|-------------|-------------|----------------|
| TCI | 3,820,695 | 4,825,860 | 4,299,588 | 4,056,549 | 5,041,274 | 22,043,966 |
| AFUDC | 5,511,275 | 7,365,025 | 6,668,924 | 6,540,575 | 8,278,273 | 34,364,072 |
| | | | | | | |
| Ratio | 0.693251 | 0.655240 | 0.644720 | 0.620213 | 0.608977 | 0.641483 |
| | | | | | | To page 3 of 5 |

Hawaiian Electric Company, Inc. MPIR Removal Costs Actuals Through December 31, 2018

| Row Labels | Sum of amount |
|--------------------|----------------|
| Labor | 90,530 |
| Materials | 46 |
| Overheads | 94,426 |
| Grand Total | 185,002 |
| | To page 1 of 5 |

SOURCE: Ellipse & SAP

Hawaiian Electric Company, Inc. 2018 Major Projects Excess Cost, Net of CIAC

| [1] | [1] | | [2] | [1] | | | | | [1] | [2] 2017 Net | [1] | [3] | [2] | To Sch D1 | |
|-------------------------------|--|--------------------|------------------------------------|------------------------------------|---------------|-------------------------------------|--------------------|--------------------|------------------------|--------------------------------|---|--|-----------------------------------|---|-----------------------------------|
| Grandparent # or Project # | Project | Date In Service | Net Plant Adds Thru 12/31/17 | Net Plant Adds Thru 12/31/18 | Plant Acct | Docket No 2010-0053 Depr Rate | 2018 Depr | 2019 Depr | Net PUC Approved | Cost in Excess of Docket | 2018 Net Cost in Excess of Docket | Prior Years Depr Related to Excess | 2018 Depr Related to Excess | Cumulative Depr Related to Excess | 2019 Depr Related to Excess |
| of Froject# | Troject | Scrvice | (A) | (B) | Acti | (C) | (D) = (A) * (C) | (E) = (B) * (C) | (F) | (G) | (H) = (B) - (F) | (I) | (J) = (G)/(A) * (D) | (K) = | (L) = (H) / (B) * (E) |
| PZ.000003/ (P0003205) | ERP EAM Hardware | 2017/06 | 2,604,146 | 2,604,146 | 391.1 | 0.20000 | 520,829 | 520,829 | 2,590,000 | 14,146 | 14,146 | - | 2,829 | 2,829 | 2,829 |
| PE.000104 (P0003465) | Koolau-Wailupe #1 Str 30 P9 Replace | 2017/07 | 2,684,387 | 2,697,590 | 356 | 0.03270 | 87,779 | 88,211 | 2,555,619 | 128,768 | 141,971 | - | 4,211 | 4,211 | 4,642 |
| PZ.000016/ PZ001002 | Schofield Generation | | | | | | | | | | | | | | |
| (P0001576) | Station - Note [4] | 2018/06 | - | 142,147,612 | 343 | 0.03260 | - | 4,634,012 | | | | | | | |
| | | | - | 2,003,490 352,190 | 352 | 0.01600 0.01860 | - | 32,056 | | | | | | | |
| | | | - | 240,250 | 353 397 | 0.01860 | - | 6,551 16,025 | | | | | | | |
| | | | | 144,743,542 | | | | 4,688,643 | - | - | 144,743,542 | - | - | - | 4,688,643 |

^[1] Source: HECO-WP-D2-001

^[2] Source: Transmittal No. 18-01 (Decoupling) - Hawaiian Electric Company RBA Rate Adjustment, HECO-WP-E-001, filed on May 29, 2018.

^[3] Source: Transmittal No. 18-01 (Decoupling) - RBA Rate Adjustment (Filed May 29, 2018), HECO-WP-E-001, column (L), "Cumulative Depr Related to Excess".

^[4] The Schofield Generation Station project is recovered via the Major Project Interim Recovery (MPIR) mechanism at the Schedule L series. As such, the entire project related costs will be excluded from all Decoupling calculations.

Hawaiian Electric Company Calculation of Composite Effective Income Tax Rates Federal and State

Composite Federal and State Effective Income Tax Rate

| | Eff 1/1/2018 | 2017 & Prior |
|-----------------------------------|--------------|--------------|
| Federal Effective Income Tax Rate | 19.7368421% | 32.8947368% |
| State Effective Income Tax Rate | 6.0150376% | 6.0150376% |
| | 25.7518797% | 38.9097744% |

Calculation of Effective Rates

Assumptions:

ST = State Income Tax Expense

FT = Federal Income Tax Expense

Pre-Tax Income = \$1.00 State Statutory Income Tax Rate*

Federal Statutory Income Tax Rate**

 Eff 1/1/2018
 2017 & Prior

 6.4%
 6.4%

 21.0%
 35.0%

Calculation of State Effective Income Tax Rate

State Income Tax Expense = Statutory Rate x (Pre-Tax Income - State Income Tax Expense)

 $ST = .064 \times (1 - ST)$

ST = .064 - .064(ST)

1.064(ST) = .064

ST = .060150376 or 6.0150376% of Pre-Tax Income

Calculation of Federal Effective Income Tax Rate

rederal Income Tax Expense = Statutory Rate x (Pre-Tax Income - State Income Tax Expense)

Effective 1/1/18

 $FT = .21 \times (1 - ST)$

 $FT = .21 \times (1 - .060150376)$

FT = .21 - .01263157896

FT = .197368421 or 19.7368421% of Pre-Tax Income

2017 & Prior

FT = .35 x (1 - ST)

 $FT = .35 \times (1 - .060150376)$

FT = .35 - .01263157896

FT = .328947368 or 32.8947368% of Pre-Tax Income

^{*} Hawaii Revised Statutes §235.71 was amended for tax years beginning after 1986.

^{**} The Tax Cuts and Jobs Act changed the Federal tax rate for tax years ending after December 31, 2017.

HAWAIIAN ELECTRIC COMPANY, INC. TAX REPAIRS ADJUSTMENT 2018

| - | LIFE | HECO-WP- F1-002 5 YR AVERAGE | A Plant Adds | B HECO-WP- F1-001, pg 2 Repairs Allocation | C = A x B Repairs Deduction | D = A - C Depreciable Basis |
|----------------------|------|---------------------------------------|---------------|--|------------------------------|-------------------------------|
| Computers/PV | 5 | 6,092 | | | | |
| Communication | 20 | 5,920 | | | | |
| Off/Furn/Tools | 7 | 5,022 | | | | |
| Distribution | 20 | 130,472 | 130,472,000 | 19.67% | 25,659,352 | 104,812,648 |
| Land | - | 816 | | | | |
| Non-Steam Production | 15 | 3,713 | 3,713,000 | 0.04% | 1,582 | 3,711,418 |
| Steam Production | 20 | 22,905 | 22,905,000 | 28.28% | 6,477,859 | 16,427,141 |
| Structural | 39 | 3,265 | | | | |
| Transmission | 20 | 21,834 | 21,834,000 | 4.49% | 980,382 | 20,853,618 |
| Transmission | 15 | 34,674 | 34,674,000 | 4.49% | 1,556,918 | 33,117,082 |
| Vehicles | - | 5,209 | | | | |
| TOTAL | | 239,922 | 213,598,000 | | 34,676,093 | 178,921,907 |
| | | | | = | To Sch F1 | |

NOTE 1> This schedule computes the estimated amount of deductible tax repairs related to the baseline plant additions for the RAM year. The deductible tax repairs amounts are carried forward to Schedule F1 and serve to reduce the depreciable tax basis for the baseline plant additions. The repairs percentages (Column B) are calculated on HECO-WP-F1-001, page 2.

NOTE 2> The numbers (excluding %s) are rounded to the nearest thousand.

HAWAIIAN ELECTRIC COMPANY, INC. REPAIRS DEDUCTION

| | <u>-</u> | Distribution | stribution Non Steam | | Transmission | |
|------------|----------------|--------------|----------------------|-------------|--------------|--|
| Repairs %: | | | | | | |
| • | basis repairs | | | | | |
| 2014 | | 40,010,784 | | 8,698,003 | 1,620,540 | |
| 2015 | | 28,855,969 | | 8,823,262 | 3,152,508 | |
| 2016 | | 19,906,067 | | 6,512,311 | 2,697,168 | |
| 2017 | | 24,350,324 | 71,857 | 5,491,680 | 4,271,225 | |
| 2018 | | 23,503,387 | | 4,894,363 | 1,396,139 | |
| | - - | 136,626,531 | 71,857 | 34,419,619 | 13,137,580 | |
| Total book | basis adds | | | | | |
| 2014 | HECO-WP-F1-002 | 139,366,000 | 12,311,000 | 30,119,000 | 57,957,000 | |
| 2015 | HECO-WP-F1-002 | 150,513,000 | 5,613,000 | 25,823,000 | 48,871,000 | |
| 2016 | HECO-WP-F1-002 | 117,566,000 | 268,000 | 24,812,000 | 79,269,000 | |
| 2017 | HECO-WP-F1-002 | 147,966,000 | 1,658,000 | 22,867,000 | 73,183,000 | |
| 2018 | HECO-WP-F1-002 | 139,304,000 | 148,783,000 | 18,083,000 | 33,306,000 | |
| | - | 694,715,000 | 168,633,000 | 121,704,000 | 292,586,000 | |
| AVERAGE | € % | 19.666558% | 0.042611% | 28.281420% | 4.490160% | |

NOTE 1> With the assistance of Price Waterhouse Coopers, the repairs deduction analysis was performed in 2010, 2012, 2015 and 2016 in connection with changing HECO's method of identifying deductible repairs for tax accounting purposes. The repairs percentage for each functional group represents the five year weighted average of the identified repairs costs.

NOTE 2> The numbers (excluding %s) are rounded to the nearest thousand.

HAWAIIAN ELECTRIC COMPANY, INC. BASELINE PLANT ADDS

| | | | | | | | LESS: MAJOR | | | % |
|----------------------|------|---------|---------|---------|---------|---------|----------------|-----------|---------|---------|
| | LIFE | 2014 | 2015 | 2016 | 2017 | 2018 | PROJECTS | TOTAL | AVERAGE | AVERAGE |
| Computers/PV | 5 | 6,681 | 8,980 | 5,219 | 7,587 | 4,596 | (2,604) | 30,459 | 6,092 | 2.54% |
| Communication | 20 | 5,340 | 5,183 | 5,870 | 7,349 | 6,611 | (754) | 29,599 | 5,920 | 2.47% |
| Off/Furn/Tools | 7 | 8,242 | 4,315 | 2,964 | 5,204 | 4,384 | . , | 25,109 | 5,022 | 2.09% |
| Distribution | 20 | 139,366 | 150,513 | 117,566 | 147,966 | 139,304 | (42,353) | 652,362 | 130,472 | 54.38% |
| Land | - | 1,729 | 1,233 | 11 | 262 | 847 | | 4,082 | 816 | 0.34% |
| Non-Steam Production | 15 | 12,311 | 5,613 | 268 | 1,658 | 148,783 | (150,069) | 18,564 | 3,713 | 1.55% |
| Steam Production | 20 | 30,119 | 25,823 | 24,812 | 22,867 | 18,083 | (7,178) | 114,526 | 22,905 | 9.55% |
| Structural | 39 | 2,899 | 5,468 | 1,647 | 5,217 | 1,092 | | 16,323 | 3,265 | 1.36% |
| | | | | | | | | | | |
| Transmission | 20 | 13,295 | 21,461 | 38,676 | 29,442 | 8,994 | (2,698) | 109,170 | 21,834 | 9.10% |
| Transmission > 69kv | 15 | 44,662 | 27,410 | 40,593 | 43,741 | 24,312 | (7,349) | 173,369 | 34,674 | 14.45% |
| | | 57,957 | 48,871 | 79,269 | 73,183 | 33,306 | (10,047) | 282,539 | 56,508 | 23.55% |
| | | | | | | | | | | |
| Vehicles | - | 4,682 | 10,540 | 3,665 | 5,460 | 1,697 | | 26,044 | 5,209 | 2.17% |
| | | | | | | | | | | |
| TOTAL | | 269,326 | 266,539 | 241,291 | 276,753 | 358,703 | (213,005) | 1,199,607 | 239,921 | 100.00% |

To WP-F1-001

HAWAIIAN ELECTRIC CO., INC. PRORATION ADJUSTMENT FOR NORMALIZATION COMPLIANCE FEDERAL ADIT DR/(CR)

| ADIT account 282 Federal accelerated depreciation | Federal ADIT DR/(CR) | January | February | March | April | May | June | July | August | September | October | November | December | |
|--|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------|
| Beginning balance Sch D4 | (208,749,171) | | | | | | | | | | | | | |
| Federal Tax Depreciation Sch F Effective Federal Tax Rate Net ADIT accrued 2019 | (20,239,341) 19.7368% (3,994,598) | | | | | | | | | | | | | |
| Monthly Accrued evenly over 12 months | (332,883) | | | | | | | | | | | | | |
| WITHOUT PRORATION Federal 282 ADIT Balance | Beg of Yr | January | February | March | April | May | June | July | August | September | October | November | December | End of Yr |
| Monthly Additions Cumulative Balance | (208,749,171) (208,749,171) | (332,883) (209,082,054) | (332,883) (209,414,937) | (332,883) (209,747,821) | (332,883) (210,080,704) | (332,883) (210,413,587) | (332,883) (210,746,470) | (332,883) (211,079,353) | (332,883) (211,412,237) | (332,883) (211,745,120) | (332,883) (212,078,003) | (332,883) (212,410,886) | (332,883) (212,743,769) | (3,994,598) (212,743,769) |
| | | | | | | | | | | | Simple Yea | ar Average - With | hout Proration | (210,746,470) |
| WITH PRORATION Days new rates in effect 6/1/2019 Prorated additions Cumulative ADIT balance with proration | 214 (208,749,171) | (332,883) (209,082,054) | (332,883) (209,414,937) | (332,883) (209,747,821) | (332,883) (210,080,704) | (332,883) (210,413,587) | (287,773) (210,701,360) | (239,551) (210,940,911) | (191,330) (211,132,241) | (144,664) (211,276,905) | (96,443) (211,373,348) | (49,777) (211,423,125) | (1,556) (211,424,681) | (2,675,510) (211,424,681) |
| | | | | | | | | | | | Simple | Year Average - V | With Proration | (210,086,926) |
| Adjustment to rate base ADIT 659,544 To Schedule F | | | | | | | | | | | | | | |
| Days new rate in effect | | 335 | 307 | 276 | 246 | 215 | 185 | 154 | 123 | 93 | 62 | 32 | 1 | |
| Days in the month | | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 30 | 31 | 365 |

Note: Methodology based on IRS Private Letter Ruling 9313008

HAWAIIAN ELECTRIC COMPANY, INC. AVERAGE RATE BASE AND RATE OF RETURN (\$ Thousands)

| | Month- | -End | | | |
|--|-----------|-----------|------------------------|--|--|
| RATE BASE | Dec 2017 | Dec 2018 | REFERENCE | | |
| INVESTMENTS IN A COPTS SERVING SUSTAINEDS | | | | | |
| INVESTMENTS IN ASSETS SERVING CUSTOMERS | | | | | |
| NET COST OF PLANT IN SERVICE | 2 220 022 | 2 522 240 | N. 4. 2 | | |
| Total Utility Plant | 3,330,923 | 3,523,249 | Note 2 | | |
| Adjustments: | | | 27 | | |
| Construction Work in Progress | (245,995) | (550,571) | Note 2 | | |
| Regulatory Asset - ARO | - | 331 | GL#18670151 | | |
| Asset Retirement Obligation | (2,539) | (4,780) | GL#25301000 | | |
| Regulatory Liability for Cost of Removal | (327,225) | (356,926) | GL#25400001 | | |
| Plant - Tenant Allowance | (14,058) | (14,132) | GL#10100002 | | |
| Acc Amort - Tenant Allowance | 8,662 | 9,824 | GL#11160000 | | |
| Unbilled Pole Credits | | (4,435) | within GL#25300000 | | |
| | 2,749,768 | 2,602,560 | Note 1 | | |
| FUEL INVENTORY | 64,972 | 54,262 | Note 2 | | |
| MATERIALS & SUPPLIES INVENTORIES (excl Stores Expense) | 26,517 | 27,953 | GL#90154000, Note 2 | | |
| UNAMORT NET ASC 740 REG ASSET | 78,576 | 77,465 | ADIT Tax Sch | | |
| PENSION TRACKING REG ASSET | 115,531 | 96,993 | GL#18676040 | | |
| OPEB TRACKING REG ASSET | 3,112 | - | GL#18677040 | | |
| PENION NON-SERVICE COST REG ASSET | - | 883 | GL#18676045 | | |
| EOTP REG ASSET | 89 | 20 | GL#18670124/5/6 | | |
| CIP CT-1 REG ASSET | 1,352 | 795 | GL#18670120/21/22 | | |
| DEFERRED SYSTEM DEVELOPMENT COSTS | -, | | | | |
| OMS | 746 | 445 | GL#18607004 | | |
| HR Suites-Phase 1 | 1,307 | 951 | GL#18606004 | | |
| HR Suites-Phase 2 | 512 | 384 | GL#18606104 | | |
| Budget System Replacement Project | 885 | 739 | GL#18607704 | | |
| IVR | 1,000 | 883 | GL#18670400 | | |
| CIS | 9,046 | 7,827 | Acctg Dept Amort Sch | | |
| CIS | 13,496 | 11,229 | Accig Dept Amort Scii | | |
| DO WATER RIDELINE DEC ASSET | | | CI #19670152 | | |
| RO WATER PIPELINE REG ASSET | 4,842 | 4,725 | GL#18670152 | | |
| CONTRIB IN EXCESS OF NPPC | 2,240 | 2.056.005 | GL#18676030 | | |
| TOTAL INVESTMENTS IN ASSETS | 3,060,495 | 2,876,885 | | | |
| FUNDS FROM NON-INVESTORS | | | | | |
| UNAMORTIZED CIAC | 365,482 | 30,110 | Note 5 | | |
| CUSTOMER ADVANCES | , . | , | | | |
| Customer Advances | 4,239 | 6,392 | GL#25200000 | | |
| Developer Advances | 33,884 | 21,345 | Note 3 | | |
| Developer revenues | 38,123 | 27,737 | | | |
| CUSTOMER DEPOSITS | 11,113 | 10,409 | GL#23501000 | | |
| ACCUMULATED DEF INCOME TAXES | 283,136 | 283,659 | Schedule D4 | | |
| EXCESS ACCUMULATED DEF INCOME TAXES | 278,582 | 278,156 | GL#25400023/24, Note 4 | | |
| | | | GL#25520000/20004 | | |
| UNAMORTIZED ITC (GROSS) | 57,594 | 58,897 | | | |
| UNAMORTIZED FEDERAL EV CREDIT | 750 | 724 | GL#25503000 | | |
| UNAMORTIZED GAIN ON SALE | 182 | 116 | GL#25400101/02/09 | | |
| PENSION TRACKING REG LIAB | | 3,478 | GL#25400004 | | |
| OPEB TRACKING REG LIAB | 5,443 | 1,858 | GL#25400002 | | |
| TOTAL DEDUCTIONS | 1,040,405 | 695,144 | | | |
| WORKING CASH | 7,068 | 11,027 | HECO-WP-H-008 | | |
| RATE BASE | 2,027,158 | 2,192,768 | | | |
| SIMPLE AVERAGE RATE BASE | | 2,109,963 | To Schedule H | | |

Footnotes:

- * Amounts may not add up due to rounding.
- 1 Includes Property Held for Future Use balance of \$0 for 2018 and 2017.
- 2 See Hawaiian Electric Company Inc. Monthly Financial Report December 2018, filed February 28, 2019.
 Note that Materials & Supplies Inventory include an adjustment of (\$1,116) and (\$1,489) representing payment lags in 2017 and 2018, respectively.
- 3 The Company reclassified cash received from Developers, subject to refund, to Customer Advances. Amount has been isolated for greater transparency within the rate base calculation. See further discussion at Schedule G.
- 4 As a result of the 2017 Tax Reform Act, Regulatory Liability accounts were created to isolate the impact of the 2017 excess accumulated deferred taxes effective in actuals as of December 2017. These Regulatory Liabilities have been included as a reduction to Rate Base. Deferred tax asset related to excess accumulated deferred taxes is included in Unamortized Net ASC 740 Reg Asset.
- 5 For 2018, CIAC is netted with Plant In Service, CWIP and Developer Advances, resulting from the Company's transition to FERC treatment in October 2018. See further discussion of the Company's treatment of CIAC at HECO-WP-D1-001.

HAWAIIAN ELECTRIC COMPANY, INC.

Ratemaking Adjustments For Incentive Compensation And Other Non-Recoverable Expenses $2018\,$

| Line | Account/Order No. | Description | | 2018 | Tax @ 25.75% | Net of Tax | Rounded (000s) |
|------|--------------------------------|---|------------|-----------|-----------------|---------------|----------------|
| 1 | Executive Compensation | and Incentive Compensation | | | | | |
| 2 | 70025/26/#60003110 | LTIP and EICP expense | (a) | 3,310,738 | | | |
| 3 | 70027/ #60004000 | Other incentive awards | () | 828,135 | | | |
| 4 | Provided by HEI | HEI charges for incentive compensation | (a) | 692,751 | | | |
| 5 | Non-Executive Incentive | | () | ĺ | | | |
| | Wksht | Non-executive incentive programs | (a) | 457,781 | | | |
| 6 | 70028/#60003110 | Manager award plan | (a) | 195,785 | | | |
| 7 | | | | 5,485,190 | 1,412,540 | 4,072,650 | 4,073 |
| | | | | | | To Sc | h H, Line 2A |
| 8 | Discretionary and Other | Expenses Not Recoverable | | | | | |
| 9 | #60004009 | Executive life insurance(COLI) expense (credit) - | | | | | |
| | | not tax deduct | | (442,516) | | | |
| 10 | Provided by HEI | EEI Dues (allowed portion) - not tax deduct | | 47,722 | | | |
| 11 | 70014/ #60004034 | OPEB (Executive life portion only) | | 440,216 | | | |
| | 70016 | HEIRS | | 7,902 | | | |
| 13 | Provided by HEI | HEI charges for non-incentive comp (salaries/benefits - | | | | | |
| | | Executives (labor) | (a) | 524,810 | | | |
| 14 | Provided by HEI | HEI charges for outside services (plan admin, legal fees, | | | | | |
| | | audit fees) - Executives (non-labor) | | 74,279 | | | |
| 15 | 70014/24/ #60004035/36 | Non-qualified pension expense | | 475,342 | | | |
| 16 | #60018015 | Payroll taxes related to incentive compensation | | 173,390 | | | |
| 17 | 70011/70012 | Service awards program | | 63,045 | | | |
| 18 | Various | Community service admin - AUW (labor) | (a) | 90,346 | | | |
| 19 | 50100 | Community service admin - AUW (non-labor) | _ | 99,926 | | | |
| 20 | | | | 1,554,462 | 501,970 | 1,052,492 | 1,052 |
| | | | | | | To Sc | h H, Line 2B |
| 21 | Total Adjustmnent to Op | perating Income | - | 7,039,652 | 1,914,510 | 5,125,142 | |
| | • | | = | | To HECO-WI | P-H-008, Pg 1 | |
| | | | | | | | |
| | | Labor | \sum (a) | 5,272,211 | To HECO-WI | , 0 | |
| | | Non-labor | _ | 1,767,441 | To HECO-WI | P-H-008, Pg 1 | |
| | | Total adjustment to operating income | _ | 7,039,652 | - | | |

${\it HAWAIIAN ELECTRIC COMPANY, INC.} \\ {\it Income Tax On Items To Be Replaced By Synchronized Interest } \\ 2018$

| | Source | YTD | Rounded (000s) |
|--------------------------------|---------------------|----------------------|----------------------------|
| Total Interest Charges | GL# RONE70 | 52,180,277 | |
| Remove: RBA Interest Income | GL# 41900002 | 776,680 | |
| Less: Int on Customer Deposits | GL# 60016050 | (631,778) | |
| AFUDC-Debt | GL# RONE69 | (4,018,998) | |
| Amort of Inv Inc Differential | within GL# 60001010 | 184,971 | 185 To Sch H, Line 2C |
| Equity in net income of trust | GL# 42107000 | (100,516) | |
| | Tax rate | 48,390,636 25.75% | |
| | | 12,460,589 | (12,461) To Sch H, Line 2D |

HAWAIIAN ELECTRIC COMPANY, INC. Ratemaking Capitalization 2018

| | Simple Average Balance* | Ratios | Cost Rate | Weighted Cost of Debt |
|-----------------------------------|-------------------------|-------------------|----------------|--------------------------|
| Chart Tarra Dalit | 00 060 | 3.68% | 2.540/ | 0.000/ |
| Short-Term Debt | 88,868 | 38.92% | 2.54% 5.03% | 0.09% |
| Long-Term Debt | 939,810 | 38.92% 1.19% | 3.03% 7.16% | 1.96% |
| Hybrid Securities Preferred Stock | 28,758 | 0.88% | | 0.09% |
| | 21,192 | | 5.36% | 0.05% |
| Common Equity | 1,335,921 | 55.33% 100.00% | 9.50%_ | 5.26% 7.45% |
| | 2,414,549 | 100.0076 | | 7.4370 |
| | NARUC/ | YTD | Rounded | Cost |
| | GL Code | Dec 2018 | (000s) | Rate |
| Short-Term Debt: | | | | |
| Interest on Debt Assoc Co | 60016060/61 | 2,108,154 | | |
| Less: Interest on QUIDS | QUIDS (see below) | (2,050,516) | | |
| Int Exp-Commercial Paper | within 60016100 | 2,305,290 | | |
| Int Exp-SCF Loans | | 0 | | |
| Int Inc-Assoc Cos. | 41908000 | (176,391) | | |
| Int Exp-Short Term | within 60016000 | 69,531 | | |
| | _ | 2,256,068 | 2,256 | 2.54% |
| Long-Term Debt: | | | | |
| Amort of Debt Disc & Exp | 60002100 | 1,641,364 | | |
| Less: Hybrid Sec Amort of Iss Exp | see a below | (109,414) | | |
| Interest on Long-Term Debt | 60016000 | 45,646,755 | | |
| Less: Int Exp-Short Term | see above | (69,531) | | |
| Amort Inv Inc Differential | within 60001010 | 184,970 | | |
| | - | 47,294,144 | 47,294 | 5.03% |
| | | | | |
| Hybrid Securities: | (001(00) | 2 050 516 | | |
| Interest on QUIDS | 60016060 | 2,050,516 | | |
| Amort Exp-QUID1 Iss Exp | within 60002100 | 40,416 | 100 41 4 | |
| Amort Exp-QUID2 Iss Exp | within 60002100 | 37,899 | sum = 109,414 | a |
| Amort Exp-QUID3 Iss Exp | within 60002100 | 31,099 | | |
| Equity in Net Inc of Trust | 42107000 | (100,516) | | |
| | | 2,059,414 | 2,059 | 7.16% |
| Preferred Stock: | | | | |
| Amort of Pfd Stk Iss Exp | 60002000 | 55,086 | | |
| Preferred Stock dividends | 60016500 | 1,079,907 | | |
| | _ | 1,134,993 | 1,135 | 5.36% |
| | | 1,151,773 | 1,133 | 3.3070 |

^{*} Short-Term Debt based on a 12 month average.

HAWAIIAN ELECTRIC COMPANY, INC. Special Medical Needs Program Discount (net of tax) 2018 Amounts in (\$000s)

| Special Medical Needs Program Discount | 151 |
|--|-----------------------|
| Revenue Taxes @ 8.885% | (13) |
| | 138 |
| Income Taxes @ 25.75% | (35) |
| Reduction to operating income | 102 To Sch H, Line 2e |

Source: CIS Special Medical Needs (SMN) report

HAWAIIAN ELECTRIC COMPANY, INC. Performance Incentive Mechanism 2018 Amounts in (\$000s)

| Gross (Reward) / Penalty Amount | GL#25400030 | 532 |
|---------------------------------|-------------|-----------------------|
| Revenue Taxes @ 8.885% | | (47) |
| | | 485 |
| Income Taxes @ 25.75% | | (125) |
| Reduction to operating income | | 360 To Sch H, Line 2f |

Note:

Subsequent to the December 2018 financial close, Hawaiian Electric revised its PIMS Regulatory Liability of \$531,871 to PIMS Regulatory Asset of \$537,856 as shown at Schedule M. The recorded PIMS Regulatory Liability balance of \$531,871 as of 12/31/18 was used to determine the 2018 Earnings Sharing Calculations at Schedule H.

The Company trued-up the Regulatory Liability balance with the February 2019 financial close.

HAWAIIAN ELECTRIC COMPANY, INC. Final Test Year Refund 2018 Amounts in (\$000s)

| 2017 Test Year Rate Case Final D&O Refund | Note 1 | 48 |
|---|--------|----------------------|
| Revenue Taxes @ 8.885% | | (4)_ |
| | | 44 |
| Income Taxes @ 25.75% | | (11) |
| Reduction to operating income | | 32 To Sch H, Line 2g |

Note 1:

2017 Final Test Year Rate Case Final D&O Refund calculation, filed in Docket No. 2016-0328 HECO Letter to the PUC, Exhibits 4 & 5, filed on July 23, 2018, and approved in Order No. 35661, filed August 30, 2018.

HAWAIIAN ELECTRIC COMPANY, INC. WORKING CASH 2018

(Note 1)

| | | | | | Net Collection | |
|----------|--------------------------------|-----|-------------|------------|--------------------|---|
| Lina | Warling Cosh Itams | | 2018 | | | Amount |
| Line | Working Cash Items | | B | | Lag Days | $\frac{\text{Amount}}{\text{D} = \text{B/365xC}}$ |
| | A | | Б | | C | D - B/303XC |
| 1 | Fuel | | 523,706 | B1 | 19.1 | 27,405 |
| 2 | Purchased Power | | 494,450 | B2 | -5.4 | (7,315) |
| 3 | O&M Labor | | 137,959 | В3 | 25.5 | 9,638 |
| 4 | O&M Non-Labor | | 165,521 | B 4 | 8.6 | 3,900 |
| 5 | Revenue Taxes | | 160,276 | B5 | -50.9 | (22,351) |
| 6 | Income Taxes | | 35,031 | B6 | -2.6 | (250) |
| 7 | Working Cash | | | | | 11,027 To HECO-WP-H-001 |
| 8 | Fuel Oil | B1_ | 523,706 | = | GL #90501000, 90 | 0547000, 90547100 |
| 9 | Purchased Power | B2 | 494,450 | = | GL #90555000 | |
| 10 | O&M Labor | | | | | |
| 11 | O&M Labor | | 145,473 | | Acct. Dept. O&M | report |
| 12 | Fuel O&M Labor | | (2,242) | | Acct. Dept. O&M | = |
| 13 | O&M Labor Excl Fuel Labor | | 143,231 | | • | • |
| 14 | Disallowed O&M | | (5,272) | | HECO WP-H-002 | 2 |
| 15 | Total | В3 | 137,959 | | | |
| 16 | O&M Non-Labor | | | | | |
| 17 | O&M Expense | | 1,333,535 | | PUC Monthly Rep | port |
| 18 | Less: Fuel Oil & PP Expense | | (1,018,156) | | Lines 8 + 9 | |
| 19 | O&M Labor Excl Fuel Labor | | (143,231) | | | Excl Fuel Labor above) |
| 20 | Disallowed O&M Non-Labor | | (1,767) | | HECO WP-H-002 | · · · · · · · · · · · · · · · · · · · |
| 21 | Bad Debt Expense | | (1,388) | | GL #60010000 | |
| 22 | Pension Reg Asset/Liab Amort | | (11,456) | | HECO WP-H-008 | Ring 2 |
| 23 | OPEB Reg Asset/Liab Amort | | 376 | | | , 75. 2 |
| 24 | System Develop Amort | | (2,267) | | | |
| 25 | Other Deferred Projects Amort | | (742) | | \downarrow | |
| 23 | other Deferred Projects Pullor | | (712) | | GL #60018000/00 | 1/015, 60019100, 60050001, |
| 26 | Payroll Taxes | | 9,985 | | | /245/251, 70000010/20/30 |
| 27 | Interest on Customer Deposits | | 632 | | GL #60016050 | 72 13/23 1, 70000010/20/30 |
| 28 | Total | B4 | 165,521 | - | GE #00010050 | |
| | 1000 | | 100,021 | = | | |
| 29 30 | Revenue Taxes | | 44 700 | | CI #60017000 | |
| 31 | Franchise PSC | | 44,708 | | GL #60017000 | |
| | | | 106,518 | | GL #60017002 | |
| 32 | PUC Fee | D.5 | 9,050 | - | GL #60017001 | |
| 33 | Total | B5 | 160,276 | = | | |
| 34 | Current Income Taxes | | | | | |
| 35 | Income Tax | | 32,067 | | Dec. 2018 PUC M | |
| 36 | Inc Tax on Disallowed Items | | 1,915 | | HECO WP-H-002 | 2 |
| 37 | Reversal of Tax Related to | | 12,461 | | Sch H, Line 2d | |
| | Interest Sync Replacement | | | | | |
| 38 | Tax Eff of AFUDC Equity | | (3,189) | | GL #60020060 | |
| 39 | Income Tax Adjustments | | 3,404 | | HEI worksheet | |
| 40 | Tax Related to Int Synch | _ | (11,627) | _ | Sch H, Line 13 - 1 | 13a |
| 41 | Total | B6 | 35,031 | = | | |

Note 1: See Final Decision and Order No. 35545, For Approval of General Rate Case and Revised Schedules/Rules, filed on June 22, 2018 in Docket No. 2016-0328, Exhibit B, Page 2 of 2.

HAWAIIAN ELECTRIC COMPANY, INC. O&M Non-Labor Amortization 2018

| Pension | Regulatory | Asset Amortization |
|----------|-------------|---------------------------|
| 1 CHSIOH | Kegulatoi v | Asset Amoi uzation |

| rension Regulatory Asse | t Amortization | | | |
|-------------------------|-------------------|-----------------|------------|------------------|
| | | (TY17) - Note 1 | | |
| Standard Journal Ent | ry No. | O&M % | • | |
| PAA202 PAA | 219 | Portion | Annual | Rounded |
| Jan 2018 Feb-De | c 2018 Total | 57.43% | 2018 | 000s |
| | | | | · |
| (45,851) 19,9 | 94,484 19,948,633 | 11,456,500 | 11,456,500 | 11,456 To Page 1 |
| | | | | , 0 |
| OPEB Regulatory Asset | Amortization | | | |
| | | (TY17) - Note 1 | _ | |
| Standard Journal Ent | ry No. | O&M % | | |
| PAA203 PAA | 220 | Portion | Annual | Rounded |
| Jan 2018 Feb-De | c 2018 Total | 57.43% | 2018 | 000s |
| | | | | |
| (159,067) (4 | 95,069) (654,136) | (375,670) | (375,670) | (376) To Page 1 |
| | | | | , , |

System Development Amortization

| | | Standard . | Journal Entry No. | | | | |
|----------|-----------|------------|-------------------|------------|-----------|-----------|-----------------|
| PAA109 | PAA133 | PAA143 | PAA163 | PAA195 | PAA177 | | |
| 18607004 | 18606004 | 18606104 | 18607704 | 18670400 | 18605005 | | |
| | HR Suites | HR Suites | | IVR System | | | |
| OMS | Phase 1 | Phase 2 | Budget Replace | Replace | CIS | 2018 | Rounded |
| 300,940 | 356,462 | 127,940 | 145,469 | 116,500 | 1,219,715 | 2,267,026 | 2,267 To Page 1 |

Other Deferred Projects Amortization

| | 3 | Stan | dard Journal Enti | ry No. | | | | |
|--------------|------------|---------------|-------------------|------------|--------------|----------|---------|---------------|
| PAA166 | PAA166 | PAA166 | PAA176 | PAA176 | PAA176 | PAA132 | | |
| 18670124 | 18670125 | 18670126 | 18670120 | 18670121 | 18670122 | 18670152 | | |
| EOTP | EOTP | EOTP AFUDC | CIP CT-1 | CIP CT-1 | CIP CT-1 | RO | Annual | Rounded |
| Depreciation | AFUDC Debt | Equity | Depreciation | AFUDC Debt | AFUDC Equity | Pipeline | 2018 | 000s |
| 18,219 | 15,342 | 35,441 | 146,605 | 123,526 | 286,584 | 116,436 | 742,153 | 742 To Page 1 |

NOTE:

¹ See Parties' Stipulated Settlement Letter, filed November 15, 2017, in Docket No. 2016-0328, HECO T-16 Attachment 4, page 1. Approved in Final Decision and Order No. 35545, filed on June 22, 2018.

HAWAIIAN ELECTRIC COMPANY, INC. MONTHLY FINANCIAL REPORT December 2018

TO THE PUBLIC UTILITIES COMMISSION OF THE STATE OF HAWAII OPERATING INCOME BEFORE RATEMAKING ADJUSTMENTS TO BE USED FOR THE EARNINGS SHARING CALCULATION (in thousands)

Page 2a

| Operating income per Monthly Financial Report Less: Interest on Customer Deposits Add: Adjustment to federal income tax to offset the DPAD benefit recognized at MECO *2 Add: Gain on Sale Amortization | 138,084 * ³ (632) 66 66 * ⁴ |
|--|---|
| Operating income before ratemaking adjustments & synchronized interest - earnings sharing calculation | 137,585 |
| Income Tax Adjustments Adjusted Operating income before ratemaking adjustments & synchronized interest - earnings sharing calculation | (3,404) 134,181 To Sch H |

^{*1} Amounts may not add up due to rounding.

Note:

Included to support Operating Income on Schedule H since PUC Page 2a was excluded from the December 2018 Monthly PUC Report submitted on February 27, 2019.

An adjustment made to offset the benefit of the Domestic Production Activities Deduction (DPAD) recognized on a standalone basis at Maui Electric Company, Ltd. (MECO) and excluded the impact from the operating income before ratemaking adjustments & synchronized interest for Hawaiian Electric Company. This adjustment was made to eliminate the impact of the MECO's tax benefit from the Hawaiian Electric Company consolidated net income, and therefore should not have any impact on a standalone basis at Hawaiian Electric Company.

^{*3} Starting October 2018, Operating Income per the Monthly Financial Report includes income tax on AFUDC Equity.

^{*4} Included within Other Income and added back for ratemaking purposes.

Hawaiian Electric Company, Inc. Schofield Generating Station Plant Addition As of December 31, 2018

| Utility Account | (Note 1) PUC Approved Accrual Rate | (Note 2) Balance at 12/31/18 | Depreciation 2019 | Allocation % | (Note 3) Subject to Cap | Depreciation 2019 (at Cap) |
|--------------------|------------------------------------|------------------------------------|-------------------|--------------|-------------------------------|----------------------------|
| | a | b | $c = a \times b$ | d | $e = d \times Cap$ | $f = a \times e$ |
| 343 | 0.03260 | 142,147,612 | 4,634,012 | 98.2% | 139,030,987 | 4,532,410 |
| 352 | 0.01600 | 2,003,490 | 32,056 | 1.4% | 1,959,563 | 31,353 |
| 353 | 0.01860 | 352,190 | 6,551 | 0.2% | 344,468 | 6,407 |
| 397 | 0.06670 | 240,250 | 16,025 | 0.2% | 234,983 | 15,673 |
| | _ | 144,743,542 | 4,688,643 | 100.0% | 141,570,000 | 4,585,844 |
| | = | | | | To Sch L1 | To Sch L1 |

Source: SAP and Powerplan WBS.

Note 1:

Depreciation rates approved in Docket No. 2010-0053, Decision and Order, filed May 12, 2011.

Note 2:

See details at HECO-WP-D2-001.

Note 3:

Decision and Order No. 33178, p. 84-85, Docket No. 2014-0113, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for the Purchase and Installation of Item P0001576, Schofield Generating Station Project, filed 09/29/2015. The Commission approved a cap on the amount of the total costs that may be recovered through any cost recovery mechanism other than base rates at 90% of the \$167 million cap. The \$167 million cap shall further be adjusted downward due to a reduction in the foreign exchange rate.

In the Letter to Commission Re: Docket No. 2014-0113, Schofield Generating Station; Notification of Euro Exchange Rate and Adjusted Project Cap, filed 01/27/2016, the Company locked in the foreign exchange rate at \$1.0928/euro which adjusted the project cap down from \$167 million to \$157.3 million. Revised cap on the amount of total costs allowed to be recovered through any cost recovery mechanism other than base rates is \$141.57 million (\$157.3 million x 90%).

(1,540,061) To Sch L1

| HAWAIIAN ELECTRIC CO., INC. | SCHOFIELD GENERATING STATION - NO BONUS | RER 31 2019 |
|-----------------------------|---|------------------|
| HAWAIIAN ELI | SCHOFIELD GI | DECEMBER 31 2019 |

| | | Source | Tax Denreciation | AFUDC | Tax Can Interest | State ITC | Removal | 2018 Total | Book/Tax Denr | State ITC | 2019 Total |
|--------------|---|-------------------|------------------|---------------|------------------|-------------------------|---------------|----------------|---------------------------|-------------------------|---------------------------|
| | FEDERAL DEFERRED TAXES | | (page 2 of 5) | (page 3 of 5) | (page 3 of 5) | (page 3 of 5) | (page 5 of 5) | | <u>.</u> | | |
| 1 S 2 E | State Book/Tax Difference Book Depreciation | HECO-WP-L-001 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (12,753,951) 4,585,844 | (412,415) | (19,716,566) 4,173,428 |
| | Subtotal | Line 1 + Line 2 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (8,168,107) | (412,415) | (15,543,137) |
| 4 H | Effective Federal Tax Rate | | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% |
| S F | Federal Def Tax on State Book/Tax Diff | Line 3 * Line 4 | (1,323,584) | (2,309,724) | 1,481,649 | 813,976 | (36,513) | (1,374,197) | (1,612,123) | (81,398) | (3,067,718) |
| 9 1 | Addback State Book/Tax Difference | Line 3 | 6,706,173 | 11,702,627 | (7,507,036) | (4,124,152) | 185,002 | 6,962,615 | 8,168,107 | 412,415 | 15,543,137 |
| - × | rederal Book 1 ax Difference Book Depreciation | Line 2 | (167,575,651) | (11,/02,627) | 050,/05, | 4,124,132 | (102,002) | (57,0,629,675) | (9,303,403) 4,585,844 | (412,415) | (49,193,136) 4,173,428 |
| 9 F | Federal State Difference | Line 6+7+8 | (32,667,058) | 1 | • | 1 | 1 | (32,667,058) | 3,188,488 | | (29,478,570) |
| 10 1 | 10 Tax Rate on Federal Only Adjustment | | 21% | 21% | 21% | 21% | 21% | 21% | 21% | 21% | 21% |
| 11 F | 11 Federal Deferred Tax Adjustment | Line 9 * Line 10 | (6,860,082) | | | | ı | (6,860,082) | 669,582 | | (6,190,500) |
| 12 1 | 12 Total Federal Deferred Taxes | Line 5 + Line 11 | (8,183,666) | (2,309,724) | 1,481,649 | 813,976 | (36,513) | (8,234,279) | (942,541) | (81,398) | (9,258,218) |
| 9 2 | STATE DEFERRED TAXES | | | | | | | | | | |
| 13 S 14 H | State Book/Tax Difference Book Denreciation | Line 1 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (12,753,951) | (412,415) | (19,716,566) |
| 15 S | Subtotal | Line 1 + Line 2 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 To Sch I 1 | (185,002) | (6,962,615) | (8,168,107) | (412,415) To Seb I 1 | (15,543,137) |
| 16 E | 16 Effective State Tax Rate | | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% |
| 17 1 | 17 Total State Deferred Taxes | Line 15 * Line 16 | (403,379) | (703,917) | 451,551 | 248,069 | (11,128) | (418,804) | (491,315) | (24,807) | (934,926) |
| 18 | 18 TOTAL DEFERRED TAXES | Line 12 + Line 17 | (8,587,045) | (3,013,641) | 1,933,200 | 1,062,045 | (47,641) | (8,653,083) | (1,433,856) | (106,205) | (10,193,144) |
| | | | | | | | | To Sch L1 | | | To Sch L1 |

HAWAIIAN ELECTRIC CO., INC. TAX DEPRECIATION SCHOFIELD GENERATION STATION

| Project No. | Description | Book Basis | Less: AFUDC | Add: TCI | Tax Basis | Plant Acct Life Bonus | Life Bo | snu | 2018 | 2019 | Net Book Value |
|------------------|---------------------------------------|-------------|----------------|-------------|-------------|-----------------------|---------|-------|---------------------------------------|------------|-------------------|
| FEDERAL | | | | | | | | | | | |
| P0001576 Schofie | P0001576 Schofield Generation Station | 64,076,545 | (5,275,285) | 3,384,005 | 62,185,266 | Oth Prod | 15 5(| 50% 3 | 32,647,265 | 2,953,800 | 28,475,480 |
| P0001576 Schofie | P0001576 Schofield Generation Station | 64,076,545 | (5,275,285) | 3,384,005 | 62,185,266 | Oth Prod | 15 0 | %0 | 3,109,263 | 5,907,600 | 55,059,682 |
| P0001576 Schofie | P0001576 Schofield Generation Station | 5,625,855 | (510,973) | 327,780 | 5,442,663 | Trans | 20 50 | 20% | 2,823,381 | 196,453 | 2,606,021 |
| P0001576 Schofie | P0001576 Schoffeld Generation Station | 5,625,855 | (510,973) | 327,780 | 5,442,663 | Trans | 20 0 | % | 204,100 | 392,906 | 5,028,849 |
| P0001576 Schofie | Schoffeld Generation Station | 1,082,599 | (65,056) | 41,732 | 1,059,276 | Comm | 20 50 | 20% | 549,499 | 38,235 | 494,865 |
| P0001576 Schofie | P0001576 Schoffeld Generation Station | 1,082,599 | (65,056) | 41,732 | 1,059,276 | Comm | 20 0 | %0 | 39,723 | 76,469 | 966,407 |
| Total | | 141,570,000 | (11,702,627) | 7,507,036 | 137,374,409 | | | 8 | 39,373,231 | 9,565,463 | 92,631,306 |
| Cumulative | ative | | | | | | | | | 48,938,694 | |
| | | | | | | | | | To page 1 of 5 | 1 of 5 | |
| HAWAII | | | | | | | | | | | |
| P0001576 Schofie | P0001576 Schoffeld Generation Station | 128,153,091 | (10,550,569) | 6,768,010 | 124,370,532 | Oth Prod | 15 | 0 | 6,218,527 | 11,815,201 | 110,119,363 |
| P0001576 Schofie | P0001576 Schofield Generation Station | 11,251,710 | (1,021,945) | 655,561 | 10,885,325 | Trans | 20 | 0 | 408,200 | 785,812 | 10,057,698 |
| P0001576 Schofie | P0001576 Schoffeld Generation Station | 2,165,199 | (130,112) | 83,465 | 2,118,551 | Comm | 20 | 0 | 79,446 | 152,938 | 1,932,815 |
| Total | | 141,570,000 | (11,702,627) | 7,507,036 | 137,374,409 | | | | 6,706,173 | 12,753,951 | 122,109,876 |
| Cumulative | ative | | | | | | | | 19,4 <mark>6</mark> To page 1 of 5 | 19,460,124 | |

Hawaiian Electric Company, Inc. Breakdown of SGS Costs by Major Area Actuals through December 2018

| TOTAL PLANT ADDITIONS: | A | В | C | D | E=SUM(B:D) | F=A+E | | (Note 1) |
|-------------------------------|---|-----------|-----------|-----------------------|--------------------------|---------------|--------------|-------------------|
| Expense Element | Generating Station and Switchyard | 46kV Line | Telecom | Wahiawa Substation | Total Interconnection | Total Project | Allocation % | Subject to Cap |
| Labor | 2,293,428 | 1,712,982 | 305,919 | 741,234 | 2,760,135 | 5,053,564 | 3.5% | 4,942,763 |
| Materials | 32,932,285 | 1,523,772 | 545,040 | 512,566 | 2,581,378 | 35,513,663 | 24.5% | 34,735,016 |
| Vehicles | 2,062 | 117,109 | 187 | 563 | 117,859 | 119,921 | 0.1% | 117,292 |
| Overheads | 12,885,912 | 2,456,221 | 544,975 | 928,736 | 3,929,932 | 16,815,844 | 11.6% | 16,447,152 |
| AFUDC | 10,787,079 | 703,160 | 133,029 | 341,694 | 1,177,883 | 11,964,962 | 8.3% | 11,702,627 |
| Outside Services-Construction | 69,147,360 | 614,746 | 59,095 | 80,179 | 754,019 | 69,901,379 | 48.3% | 68,368,772 |
| Outside Services-Other | 2,550,389 | 1,421,977 | 621,195 | 348,999 | 2,392,171 | 4,942,560 | 3.4% | 4,834,193 |
| Other | 427,354 | - | 4,296 | - | 4,296 | 431,650 | 0.3% | 422,186 |
| _ | 131,025,869 | 8,549,966 | 2,213,736 | 2,953,971 | 13,717,673 | 144,743,542 | 100.0% | 141,570,000 |

| BREAKDOWN SUBJECT TO | A1 | B1 | C1 | D1 | E1=SUM(B1:D1) | F1=A1+E1 | |
|-------------------------------|---|-----------|-----------|-----------------------|--------------------------|---------------|------------------|
| Expense Element | Generating Station and Switchyard | 46kV Line | Telecom | Wahiawa Substation | Total Interconnection | Total Project | State ITC |
| Labor | 2,243,144 | 1,675,424 | 299,212 | 724,982 | 2,699,618 | 4,942,763 | |
| Materials | 32,210,236 | 1,490,363 | 533,090 | 501,328 | 2,524,781 | 34,735,016 | 34,735,016 |
| Vehicles | 2,017 | 114,541 | 183 | 551 | 115,275 | 117,292 | |
| Overheads | 12,603,385 | 2,402,368 | 533,026 | 908,373 | 3,843,767 | 16,447,152 | |
| AFUDC | 10,550,569 | 687,743 | 130,112 | 334,202 | 1,152,058 | 11,702,627 | |
| Outside Services-Construction | 67,631,285 | 601,267 | 57,799 | 78,421 | 737,487 | 68,368,772 | 68,368,772 |
| Outside Services-Other | 2,494,471 | 1,390,800 | 607,576 | 341,347 | 2,339,722 | 4,834,193 | |
| Other | 417,984 | - | 4,202 | - | 4,202 | 422,186 | L |
| _ | 128,153,091 | 8,362,506 | 2,165,199 | 2,889,204 | 13,416,909 | 141,570,000 | (Note 1) |
| Amount subject to bonus | 50% | 50% | 50% | 50% | 50% | 50% | 103,103,789 |
| _ | 64,076,545 | 4,181,253 | 1,082,599 | 1,444,602 | 6,708,455 | 70,785,000 | 4% |
| = | | | | | | | 4,124,152 |
| | | | 5,625,855 | | | | To page 1 of 5 |
| Tie out of TCI: | | | | | | | |
| AFUDC | 10,550,569 | 687,743 | 130,112 | 334,202 | 1,152,058 | 11,702,627 | To page 1 of 5 |
| ratio - 5 year average | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | From page 4 of 5 |
| TCI | 6,768,010 | 441,175 | 83,465 | 214,385 | 739,025 | 7,507,036 | To page 1 of 5 |
| = | | _ | | | | | |

655,561

Source: Ellipse & SAP

Note 1:

 $Allocated\ 12/31/18\ Plant\ Addition\ subject\ to\ the\ cap\ of\ \$141.57M.\ \ See\ further\ discussion\ at\ HECO-WP-L1-001.$

Hawaiian Electric Company, Inc. Annual - TCI Closed to AFUDC Closed Ratio

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | 5 Yr Ave |
|-------|-------------|-------------|-------------|-------------|-------------|----------------|
| TCI | 3,820,695 | 4,825,860 | 4,299,588 | 4,056,549 | 5,041,274 | 22,043,966 |
| AFUDC | 5,511,275 | 7,365,025 | 6,668,924 | 6,540,575 | 8,278,273 | 34,364,072 |
| | | | | | | |
| Ratio | 0.693251 | 0.655240 | 0.644720 | 0.620213 | 0.608977 | 0.641483 |
| | | | | | | To page 3 of 5 |

Hawaiian Electric Company, Inc. MPIR Removal Costs Actuals Through December 31, 2018

| Row Labels | Sum of amount |
|--------------------|----------------|
| Labor | 90,530 |
| Materials | 46 |
| Overheads | 94,426 |
| Grand Total | 185,002 |
| | Ta maga 1 af 5 |

To page 1 of 5

SOURCE: Ellipse & SAP

Schedule L exhibit, with additional supporting workpapers

Excerpt from Docket No. 2017-0213 - Schofield Generating Station Cost Recovery through the Major Project Interim Recovery Adjustment Mechanism Hawaiian Electric's Update of Target Revenues and Updated Responses to the Commission's Information Requests, filed July 18, 2018. Approved in Order No. 35647, issued August 15, 2018. Effective July 1, 2018. Pages 1 through 9.

SCHEDULE B1 PAGE 1 OF 1

\$000\$

\$35,971 0.46429 -\$603 -\$2,143 0.60000

| Docket No. 2016-0328 Amounts (m) | \$ 1,529,709 \$. \$ | \$ (327,609) \$ (466,211) \$ (135,915) | \$ 599,974 | တ မာ မာ | \$ 13,828 \$ (1,229) \$ 12,599 | \$ 6,600 \$ (586) \$ 6,014 | | - | \$ 618,587 | 2019 | \$50,662,296 \$54,950,773 \$54,363,268 \$51,961,329 \$51,961,329 |
|---|---|--|--|--|--|---|---|--|--|---|--|
| Docket No. 2016-0328 Amounts (I) | \$ 1,529,709 \$. | \$ (327,609) \$ (466,211) \$ (135,915) | \$ 599,974 | | \$ 13,828 \$ (1,229) \$ 12,599 | \$ 6,600 \$ (586) \$ 6,014 | | • | \$ 618,587 | 2018 | \$53.817,081 \$55.301,701 \$33.507,798 \$54.085,317 \$51,085,307 \$51,280,25 |
| Docket No. 2016-0328 Amounts (K) | \$ 1,529,709 \$ - \$ | \$ (327,609) \$ (466,211) \$ (135,915) | \$ 599,974 | & & & | \$ 13,828 \$ (1,229) . | 999 | | 69 | \$ 612,574 | 2018 | \$49,434,694 |
| Docket No. 2016-0328 Amounts (i) | 1,529,709 | (327,609) (466,211) (135,915) | 599,974 | | | . | (16) | | 299,960 | Note (8) 2018 | \$28,726,095 \$50,396,658 |
| Docket No. 2016-0328 Amounts (i) | 1,581,445 \$ (5,000) \$ (6,000) \$ | (327,609) \$ (466,211) \$ (139,534) \$ | \$ 160,759 | * * * * * * * * * * * * * * * * * * * | s s s | | (16) \$ | \$ | \$ 770'128 | Note (6), (8) 2018 | \$22,450,132 \$51,603,222 \$20,335,492 |
| Docket No. 2010-0080 Amounts (h) | 1,765,954 \$ \$ \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | 101,131 \$ (8,986) \$ 92,146 \$ | s s s | so so so | (16) \$ | ٠ | 604,302 | _ | \$48,948,443 |
| Docket No. 2010-0080 Amounts (g) | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | 101,131 \$ (8,986) \$ 92,146 \$ | • • • • | | (16) \$ | \$ | 604,302 \$ | 2017 | \$51,184,359 \$52,997,285 \$54,658,879 \$52,453,939 \$53,057,695 \$49,915,326 \$49,915,326 |
| Docket No. 2010-0080 Amounts (f) | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | · · · | - | s s s | | · | φ | 2017 | \$48,009,623 |
| Docket No. 2010-0080 Amounts (e) | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | | | s s s | \$ \$ \$ | \$ | | 2016 | \$50,202,656 \$51,980,790 \$55,581,111 \$51,447,350 \$52,040,061 \$48,957,962 \$48,957,962 \$3557,167,892 |
| | \$000\$ \$000\$ | \$ \$000\$ \$ \$000\$ | \$0008 | \$000s \$000s \$000s | \$0008 \$0008 \$0008 | \$0008 \$0008 \$0008 | \$ \$000\$ \$ \$000\$ | \$ \$000\$ | \$000\$ \$000\$ \$000\$ \$000\$ | Note (4) | 8 8 19% 7.59% 8 10% 8 10% 8 40% 8 10% 8 10% 8 10% 8 10% 8 10% 8 10% 8 100% 9 100.00% 9 100.00% |
| Reference (b) | Note (1), (5), (7), (7a) Note (5) Note (5) | Note (1), (5), (7), (7a) Note (1), (5), (7), (7a) | Sum Lines 14 | Note (2) Lines 6 + 7 | Note (9) Lines 9 + 10 | Schedule L Lines 12 + 13 | Note (2), (9) Lines 15 + 16 | Note (2), (9) | Col (g), lines (5+8+17+18) Col (l), lines (5+8+17+18) Col (l), lines (5+8+17+18) Col (k), lines (5+9+17+18) Col (k), lines (5+9+17+18) (Col (l), lines (5+8+17+18) | | 8.10% 6.10% 7.26% 7.84% 8.44% 8.47% 9.04% 8.26% 8.26% 8.26% |
| Description (a) | Last Rate Case Annual Electric Revenue at Approved Rate Levels Less: Holdback of Interim Revenues Less: Customer Benefit Adjustment | s: Fuel Expense Purchased Power Expense Revenue Taxes on Line 1 to 1b (8.885% statutory rates) | Last Rate Order Target Annual Revenues | Authorized RAM Revenues Less: Revenue Taxes on Line 12 at 8.885% Net RAM Adjustment - Test Year +6 | Authorized RAM Revenues Less: Revenue Taxes on Line 12 at 8.885% Net RAM Adjusiment - Test Year +1 | Authorized MPIR Revenues Less: Revenue Taxes on Line 12 at 8.885% Net MPIR Adjustment | s: EARNINGS SHARING REVENUE CREDITS Less: Revenue Taxes on Line 15 at 8.885% Net Earnings Sharing Revenue Credits | PUC-ORDERED MAJOR OR BASELINE CAPITAL CREDITS: | Total Annual Target Revenues June 1, 2017 Amualized Revenues w/RAM Increase February 16, 2018 Annualized Revenues w/Indirntin Increase April 13, 2018 Annualized Revenues w/RAM Increase June 1, 2018 Annualized Revenues w/RAM Increase | Distribution of Target Revenues by Month: | January February March April April May June July August September October November Total Distributed Targe Revenues |
| Line No. | 1 Last 1a Less 1b Less | 2 Less: 3 4 | 5 Last | 9 / 8 | e 6 ± | 12 13 | 15 Less: 16 17 | 18 | 19 Tota 21 22 23 24 24 25 | | 27 28 33 33 34 34 36 39 10a |

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

Docket No. 2010-0080 amounts derived from Order No. 30576, filed August 9, 2012, effective September 1, 2012, which implemented Decision and Order No. 30505, Exhibit A, page 1, filed June 29, 2012. Transmittal 7.02 filed March 51, 2017 to relect 2017 target revenue effective June 1, 2017.

RBA Tariff Revised July 2, 2011 to relified 2017 test year.

RBA Tariff Revised July 2, 2011 to relified 2017 test year.

RBA Tariff Effective February 16, 2018 to relified 2017 test year.

RBA Tariff Effective February 16, 2018 to relified 2017 test year.

Fet Year 2017 melm Increase provided for in Inferim Decision and Order 35100, issued December 15, 2017 in Docket No. 2016-0328:

For the month of the infail implementation (Feb 2018), adjust the monthly allocation by the number of effective days in the month of the infail implementation (April 2018), adjust the monthly allocation by the number of effective days in the month of the infail implementation (April 2018), adjust the monthly allocation by the number of effective days in the month of the infail implementation (April 2018), adjust the monthly allocation by the number of effective days in the month over the total number of days:

For the month of the infail implementation (April 2018), adjust the monthly allocation by the number of effective days in the month over the total number of days:

SCHEDULE L PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK REVENUE REQUIREMENT AND DETERMINATION OF MAJOR PROJECT INTERIM RECOVERY MPIR PROJECT \$ in thousands

| Line No. | Description | Reference | Recorded at 12/31/2017 | Recorded at In Service Date (June 2018) | Ending Balance as of 6/30/18 | Average Balance | | //PIR |
|---|---|--|------------------------|---|------------------------------------|-------------------------------|------------|-----------------------|
| | (a) | (b) | (c) | (d) | (e) | | | (f) |
| 1 2 | Return on Investment Gross Plant in Service (not to exceed PUC approved amount) Accum Depreciation | HECO-WP-L-001 Schedule TBD | - | 141,275 | 141,275 | 70,638 | | |
| 3 | Net Cost of Plant in Service | | - | 141,275 | 141,275 | 70,638 | | |
| 4 5 6 | Fuel Inventory - Avoided M&S Inventory Total Additions | Note 3 Note 3 | - | (1,534) 100 (1,434) | (1,534) 100 (1,434) | (767) 50 (717) | | |
| 7 8 9 10 | CIAC ADIT State ITC Total Deductions | Schedule TBD, if needed HECO-WP-L-002 HECO-WP-L-002 | | (8,689) (4,147) (12,836) | (8,689) (4,147) (12,836) | (4,344) (2,074) (6,418) | | |
| 11 | Total Rate Base | | \$ - | \$ 127,005 | \$ 127,005 | 63,502 | | |
| 12 | Average Rate Base | | | | | \$ 63,502 | | |
| 13 | Rate of Return (grossed-up for income taxes, before revenue taxes) | Note 4 | | | _ | 9.47% | | |
| 14 | Annualized Return on Investment (before revenue taxes) | | | | _ | - | \$ | 6,014 |
| 15 16 16a 17 18 19 20 | Depreciation Expense (Note 1) Operating & Maintenance Expense Prior year reconciliation of O&M to actuals Amortization of State ITC Lease Rent Expense Other Expense Total Expenses | Schedule E Note 2 Note 2 see line 6 Schedule TBD, if needed Schedule TBD, if needed | | | - | : : : | \$ | |
| 21 | Total Major Project Interim Recovery | | | | | | \$ | 6,014 |
| 22 | Revenue Tax Factor (1/(1-8.885%)) | • | | | | | | 1.0975 |
| 23 | 2019 Annualized Revenue for Major Project Interim Recovery | | | | | - | \$ To £ | 6,600.0 Sch B & B1 |

Reconciliation to Schedule B1 (Info Only)
Sum of Monthly Factors for Jul-Dec 2018 51.67%
Prorated MPIR for Year 1 \$ 3,410

| Prorated MPIR for Year 1 \$ 3,410 | Rev Tax Adj \$ (303) | Prorated MPIR for Year 1 excl Rev Tax \$ 3,107

Note 1: Depreciation expense is recorded beginning in the year after an asset is placed in service, therefore, depreciation expense is zero in year 1. The revenue requirement for year 2 and thereafter will include depreciation expense at existing, approved depreciation accrual rates at the time of filling.

Note 2: Per Order No. 35556, page 74, Docket No. 2017-0213, For Approval to Recover Costs for Schofield Generating Station through the Major Project Interim Recovery Adjustment Mechanism, filed on June 27, 2018. Total estimated annual O&M expense will be excluded from the MPIR calculation until an acceptable business case study has been reviewed and approved by the Commission.

Note 3: Difference in fuel inventory and difference in materials & supplies inventory derived from the "with Schofield" and "without Schofield" rate bases in the HECO 2017 test year rate cases. See Docket No. 2016-0328 HECO-3201 p. 3 and HECO-3203 p. 3.

Note 4: Transmittal No. 18-01 (Decoupling) - Hawaiian Electric's RBA Rate Adjustment, Schedule D, filed May 29, 2018.

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Hawaiian Electric Company, Inc. MPIR Plant Additions Actuals Through June 30, 2018

| Indicator Code | NI |
|----------------------------|---------------|
| Row Labels | Sum of amount |
| 150: Labor Cost | 4,542,416 |
| 155: Labor True-up | 284,309 |
| 201: Matl-Issues/Purchases | 33,529,637 |
| 205: Matl-Purchasing Card | 63,740 |
| 301: Vehicles | 112,180 |
| 404: Energy Delivery | 1,758,310 |
| 405: Power Supply | 10,752,643 |
| 406: Corp Admin Expense | 929,503 |
| 421: Non-Productive Wages | 610,417 |
| 422: Employee Benefits | 1,348,674 |
| 423: Payroll Taxes | 403,436 |
| 430: AFUDC-Debt | 3,260,337 |
| 431: AFUDC-Equity | 8,704,625 |
| 501: Outside Svcs-General | 1,461,336 |
| 502: Outside Svcs-Legal | 177,774 |
| 503: Outside Svcs-TempHire | 2,916 |
| 505: Outside Svcs-Constr | 70,093,402 |
| 506: Outside Svcs-Engr | 1,596,895 |
| 508: Outside Svcs-Environ | 1,213,832 |
| 520: Mainland Travel | 90,358 |
| 522: Interisland Travel | 1,706 |
| 570: Rents | 9,300 |
| 521: Meals | 13,202 |
| 900: Fin Stmt Items | 314,048 |
| Grand Total | 141,274,996 |

SOURCE: UIPlanner Actual Data

HECO-WP-L-002 PAGE 1 OF 5 Nd 20:18102/81/2

HAWAIIAN ELECTRIC CO., INC. SCHOFIELD GENERATING STATION DECEMBER 31, 2018 (Based on Actuals Through June 30, 2018)

| | | sonice | Tax Depreciation | AFUDC | Tax Cap Interest | State ITC | Removal | Total |
|-------|--|-------------------|---------------------------|----------------------------|--------------------------|--------------------------|----------------------|---------------------------|
| | FEDERAL DEFERRED TAXES | | | | | | | |
| - 0 | State Book/Tax Difference | | (6,714,039) | (11,964,962) | 7,673,560 | 4,147,471 | (185,002) | (7,042,972) |
| 7 K | Subtotal | Line 1 + Line 2 | (6,714,039) | (11,964,962) | 7,673,560 | 4,147,471 | (185,002) | (7,042,972) |
| 4 | Effective Federal Tax Rate | | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% |
| 8 | Federal Def Tax on State Book/Tax Diff | Line 3 * Line 4 | (1,325,136) | (2,361,501) | 1,514,515 | 818,578 | (36,513) | (1,390,057) |
| 9 / 8 | Addback State Book/Tax Difference Federal Book/Tax Difference | Line 3 | 6,714,039 (39,452,276) | 11,964,962 (11,964,962) | (7,673,560) 7,673,560 | (4,147,471) 4,147,471 | 185,002 (185,002) | 7,042,972 (39,781,209) |
| 9 6 | Federal State Difference | Line 6 + 7 + 8 | (32,738,237) | | , | : | ŧ | (32,738,237) |
| 10 | Tax Rate on Federal Only Adjustment | | 21% | 21% | 21% | 21% | 21% | 21% |
| Ξ | Federal Deferred Tax Adjustment | Line 9 * Line 10 | (6,875,030) | 1 | 1 | | | (6,875,030) |
| 12 | Total Federal Deferred Taxes | Line 5 + Line 11 | (8,200,166) | (2,361,501) | 1,514,515 | 818,578 | (36,513) | (8,265,087) |
| | STATE DEFERRED TAXES | | | | | | | |
| 13 | State Book/Tax Difference | Line I | (6,714,039) | (11,964,962) | 7,673,560 | 4,147,471 | (185,002) | (7,042,972) |
| 15 | Subtotal | Line 1 + Line 2 | (6,714,039) | (11,964,962) | 7,673,560 | 4,147,471 | (185,002) | (7,042,972) |
| 16 | Effective State Tax Rate | | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% |
| 17 | Total State Deferred Taxes | Line 15 * Line 16 | (403,852) | (719,697) | 461,568 | 249,472 | (11,128) | (423,637) |
| 18 | TOTAL DEFERRED TAXES | Line 12 + Line 17 | (8,604,018) | (3,081,198) | 1,976,083 | 1,068,050 | (47,641) | (8,688,724) |

HECO-WP-L-002 PAGE 2 OF 5

HAWAIIAN ELECTRIC CO., INC. TAX DEPRECIATION SCHOFIELD GENERATION STATION (Based on Actuals Through June 30, 2018)

| Project No. | Description | Book Basis | Less: AFUDC | Add: TCI | Tax Basis | Plant Acct Life | | (Note 1) Bonus | 2018 | Net Book Value |
|----------------------|--|-------------|------------------------|------------------------|--------------------------|----------------------|----------|-------------------|-------------------------|---------------------------|
| FEDERAL | | | | | | | | | | |
| P0001576 P0001576 | 20001576 Schofield Generation Station 20001576 Schofield Generation Station | 63,995,593 | (5,393,539) | 3,459,071 3,459,071 | 62,061,124 62,061,124 | Oth Prod Oth Prod | 15 | 50% 0% | 32,582,090 3,103,056 | 31,413,503 60,892,537 |
| | | 5,661,768 | (180,733) | 335,052 | 5,816,087 | Trans | 70 | 20% | 3,017,095 | 2,644,673 |
| P0001576 | P0001576 Schofield Generation Station | 5,661,768 | (180,733) | 335,052 | 5,816,087 | Trans | 20 | %0 | 218,103 | 5,443,665 |
| P0001576 | 20001576 Schofield Generation Station | 980,137 | (66,514) | 42,658 | 956,281 | Comm | 20 | 20% | 496,071 | 484,066 |
| P0001576 | Schofield Generation Station | 980,137 | (66,514) | 42,658 | 956,281 | Comm | 20 | %0 | 35,861 | 944,276 |
| | Total | 141,274,996 | (11,281,574) | 7,673,560 | 137,666,982 | | | | 39,452,276 | 101,822,720 |
| HAWAII | | | | | | | | | | |
| P0001576 | P0001576 Schofield Generation Station P0001576 Schofield Generation Station | 127,991,185 | (10,787,079) (361,466) | 6,918,141 670.103 | 124,122,248 | Oth Prod Trans | 15 20 | 0 0 | 6,206,112 436,206 | 121,785,073 10,887,330 |
| P0001576 | Schofield Generation Station | 1,960,274 | (133,029) | 85,316 | 1,912,561 | Comm | 70 | 0 | 71,721 | 1,888,553 |
| | Total | 141,274,996 | (11,281,574) | 7,673,560 | 137,666,982 | | | | 6,714,039 | 134,560,957 |

The Tax Technical Corrections Act of 2018 made changes to the phase down rules of §168(k) as it existed just prior to the enactment of the 2017 Tax pursuant to a written binding contract entered into prior to September 28, 2017 but placed into service in 2018. Based on this statutory revision, the Reform Act. These changes indicated that 50% bonus depreciation (under the old law) would apply to longer production period property that was current best assessment is that one-half of the Schofield project components should meet the written binding contract requirements and will be grandfathered under the old law, which allowed 50% bonus depreciation on public utility property. The Company continues to monitor the tax developments for further guidance.

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Hawaiian Electric Company, Inc. Breakdown of SGS Costs by Major Area Actuals through June 2018

SOURCE: PUC-HECO-IR-7 (Update of CA-IR-19)

| | | A | В | υ | ۵ | E = SUM(B:D) | F = A + E | |
|----|-------------------------------|--------------------|-----------|-----------|------------|-----------------|---------------|-------------|
| | | Oth Prod | Trans | Comm | Trans | | | |
| | | Generating Station | | | Wahiawa | Total | | |
| 2 | Row Expense Element | and Switchyard | 46kV Line | Telecom | Substation | Interconnection | Total Project | State ITC |
| 7 | 150: Labor Cost | 2,036,413 | 1,505,621 | 301,845 | 698,537 | 2,506,003 | 4,542,416 | |
| 7 | 155: Labor True-up | 99,413 | 149,735 | (2,583) | 37,744 | 184,896 | 284,309 | |
| m | 201: Mati-Issues/Purchases | 31,024,176 | 1,466,766 | 543,716 | 494,978 | 2,505,461 | 33,529,637 | 33,529,637 |
| 4 | . 205: Matl-Purchasing Card | 5,329 | 39,500 | 1,323 | 17,588 | 58,411 | 63,740 | 63,740 |
| 2 | 301: Vehicles | 1,213 | 110,407 | , | 260 | 110,967 | 112,180 | |
| 9 | 404: Energy Delivery | 52,075 | 1,108,794 | 238,053 | 359,388 | 1,706,235 | 1,758,310 | |
| 7 | 405: Power Supply | 10,442,252 | 190,953 | 36,356 | 83,082 | 310,392 | 10,752,643 | |
| ∞ | 406: Corp Admin Expense | 414,446 | 310,795 | 63,083 | 141,180 | 515,057 | 929,503 | |
| 6 | 421: Non-Productive Wages | 265,486 | 210,398 | 43,543 | 90,990 | 344,931 | 610,417 | |
| 1 | .0 422: Employee Benefits | 627,481 | 441,079 | 94,973 | 185,141 | 721,193 | 1,348,674 | |
| 1; | 1 423: Payroll Taxes | 181,698 | 133,734 | 25,350 | 62,654 | 221,738 | 403,436 | |
| ij | 2 430: AFUDC-Debt | 2,940,954 | 190,052 | 36,432 | 92,899 | 319,383 | 3,260,337 | |
| ij | .3 431: AFUDC-Equity | 7,846,125 | 513,108 | 96,597 | 248,795 | 858,500 | 8,704,625 | |
| 17 | .4 501: Outside Svcs-General | 453,275 | 775,828 | 169,466 | 62,767 | 1,008,061 | 1,461,336 | |
| 1; | .5 502: Outside Svcs-Legal | 136,675 | 41,099 | • | • | 41,099 | 177,774 | |
| 16 | .6 503: Outside Svcs-TempHire | 2,916 | | | | • | 2,916 | |
| 1, | 7 505: Outside Svcs-Constr | 69,339,679 | 614,746 | 59,095 | 79,883 | 753,723 | 70,093,402 | 70,093,402 |
| 18 | .8 506: Outside Svcs-Engr | 483,431 | 580,122 | 248,729 | 284,614 | 1,113,464 | 1,596,895 | |
| 15 | .9 508: Outside Svcs-Environ | 1,213,832 | | | | • | 1,213,832 | |
| 7 | 20 520: Mainland Travel | 86,254 | 1 | 4,104 | , | 4,104 | 90,358 | |
| 2, | 1 522: Interisland Travel | 1,706 | | | | • | 1,706 | |
| 22 | 2 570: Rents | 9,300 | | | | • | 9,300 | |
| 23 | 3 521: Meals | 13,010 | | 192 | • | 192 | 13,202 | |
| 24 | 4 900: Fin Stmt Items | 314,048 | | | | • | 314,048 | |
| 25 | 5 Grand Total | 127,991,185 | 8,382,735 | 1,960,274 | 2,940,801 | 13,283,810 | 141,274,996 | 103,686,779 |
| | Bonus Depr | 20% | 20% | 20% | 20% | | | 4% |
| | To Tax Depr | 63,995,593 | 4,191,368 | 980,137 | 1.470.400 | | | 4.147.471 |

Note 1: Project was placed into service on June 7, 2018.

Note 2: To arrive at direct costs per categories listed in PUC-HECO-IR-7 Attachment 2:

| 96 | 34 | 22 | 0.0 | e 5 |
|------------------------|---|---------------------------|----------------------------------|--------|
| 141,274,99 | 15,802,98 | 11,964,96 | 113,507,050 | Note |
| 13,283,810 | 3,819,546 | 1,177,883 | 8,286,381 | Note 4 |
| 2,940,801 | 922,436 | 341,694 | 1,676,671 | |
| | 501,358 | ١ | | |
| 8,382,735 | 2,395,752 | 703,160 | 5,283,823 | |
| 127,991,185 | 11,983,438 | 10,787,079 | 105,220,669 | Note 3 |
| Grand Total per Row 25 | Less: Overheads (rows 6, 7, 8, 9, 10, 11) | Less: AFUDC (rows 12, 13) | Total Direct Costs by Major Area | |
| 56 | 27 | 78 | 29 | |
| | | | | |

Note 3: Agrees to 'Total Generating Station' per PUC-HECO-IR-7 Attachment 2 row 5

Note 4: Agrees to 'Total Interconnection' per PUC-HECO-IR-7 Attachment 2 row 10 (minor difference in total for 46kV, Telecom, and Wahiawa Sub due to Project Management costs being allocated in Attachment 1 vs. not allocated in Attachment 2).

Note 5: Agrees to 'Subtotal Direct Costs' per PUC-HECO-IR-7 Attachment 2 row 11.

| ie out of TCI: | | | | | | |
|-----------------------|------------|---------|-----------------|---------|-----------|------------|
| VFUDC | 10,787,079 | 703,160 | 60 133,029 341, | 341,694 | 1,177,883 | 11,964,962 |
| atio - 5 year average | 64.13% | 64.13% | 64.13% | 64.13% | 64.13% | 64.13% |
| ם | 6,918,141 | 450,962 | 85,316 | 219,141 | 755,419 | 7,673,560 |

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Hawaiian Electric Company, Inc. Annual - TCI Closed to AFUDC Closed Ratio

| 5 Yr Ave | 22,038,913 | 34,364,072 | 0.641336 |
|----------|------------|------------|----------|
| 2017 | 5,036,221 | 8,278,273 | 0.608366 |
| 2016 | 4,056,549 | 6,540,575 | 0.620213 |
| 2015 | 4,299,588 | 6,668,924 | 0.644720 |
| 2014 | 4,825,860 | 7,365,025 | 0.655240 |
| 2013 | 3,820,695 | 5,511,275 | 0.693251 |
| | TCI | AFUDC | Ratio |

Hawaiian Electric Company, Inc. MPIR Removal Costs Actuals Through June 30, 2018

| Indicator Code | NR |
|---------------------------|---------------|
| Row Labels | Sum of amount |
| 150: Labor Cost | 83,369 |
| 155: Labor True-up | 7,161 |
| 205: Matl-Purchasing Card | 46 |
| 404: Energy Delivery | 38,302 |
| 406: Corp Admin Expense | 15,495 |
| 421: Non-Productive Wages | 10,390 |
| 422: Employee Benefits | 22,600 |
| 423: Payroll Taxes | 7,639 |
| Grand Total | 185,002 |

SOURCE: UIPlanner Actual Data

Exhibit C

Updated Schedule L

Excerpt from Docket No. 2017-0213 - Schofield Generating Station MPIR Adjustment Mechanism Cost Recovery Request Hawaiian Electric's Business Case Analysis Supporting Net O&M Project Costs and Update of Target Revenues, filed September 6, 2018. Approved in Order No. 35953, issued December 14, 2018. Effective October 1, 2018. Pages 10 through 13.

SCHEDULE L PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK REVENUE REQUIREMENT AND DETERMINATION OF MAJOR PROJECT INTERIM RECOVERY MPIR PROJECT \$ in thousands

| Line No. | Description | Reference | Recorded at 12/31/2017 | Recorded at In Service Date (June 2018) | Ending Balance as of 6/30/18 | Average Balance | MPIR | |
|----------|---|-------------------------|------------------------|---|------------------------------------|---------------------------------------|----------------------------|---|
| | (a) | (b) | (c) | (d) | (e) | | (f) | _ |
| 1 | Return on Investment Gross Plant in Service (not to exceed PUC approved amount) | HECO-WP-L-001 | _ | 141,275 | 141,275 | 70,638 | | |
| 2 | Accum Depreciation | Schedule TBD | - | - | - | 70,030 | | |
| 3 | Net Cost of Plant in Service | | - | 141,275 | 141,275 | 70,638 | | |
| 4 | Fuel Inventory - Avoided | Note 3 | _ | (1,534) | (1,534) | (767) | | |
| 5 | M&S Inventory | Note 3 | - | 100 | 100 | 50 | | |
| 6 | Total Additions | | - | (1,434) | (1,434) | (717) | | |
| 7 | CIAC | Schedule TBD, if needed | - | - | - | - | | |
| 8 | ADIT | HECO-WP-L-002 | - | (8,689) | (8,689) | (4,344) | | |
| 9 | State ITC | HECO-WP-L-002 | | (4,147) | (4,147) | (2,074) | | |
| 10 | Total Deductions | | - | (12,836) | (12,836) | (6,418) | | |
| 11 | Total Rate Base | | \$ - | \$ 127,005 | \$ 127,005 | 63,502 | | |
| 12 | Average Rate Base | | | | | \$ 63,502 | | |
| 13 | Rate of Return (grossed-up for income taxes, before revenue taxes) | Note 4 | | | - | 9.47% | | |
| 14 | Annualized Return on Investment (before revenue taxes) | | | | | | \$ 6,014 | ı |
| 15 | Depreciation Expense (Note 1) | Schedule E | | | | _ | | |
| 16 | Operating & Maintenance Expense | Note 2 | | | | 1,787 | | |
| 16a | Prior year reconciliation of O&M to actuals | Note 2 | | | | - | | |
| 17 | Amortization of State ITC | see line 6 | | | | - | | |
| 18 | Lease Rent Expense | Schedule TBD, if needed | | | | | | |
| 19 | Other Expense | Schedule TBD, if needed | | | - | | | |
| 20 | Total Expenses | | | | | | \$ 1,787 | |
| 21 | Total Major Project Interim Recovery | | | | | | \$ 7,801 | 1 |
| 22 | Revenue Tax Factor (1/(1-8.885%)) | | | | | - | 1.097 | 5 |
| 23 | Annualized Revenue for Major Project Interim Recovery | | | | | <u>!</u> | \$ 8,561.2 To Sch B & B | |
| | | | | | Decensii:-#:- | n to Cabadul - Di | I (Info Only) | |
| | | | | Sum of | Monthly Factors | on to Schedule B1 for Jul-Dec 2018 | 1 (Inio Only) 51.679 | % |

| Reconciliation to Schedule B | 1 (I | nfo Only) |
|---|------|-----------|
| Sum of Monthly Factors for Jul-Dec 2018 | | 51.67% |
| Prorated MPIR for Year 1 | \$ | 4,424 |
| Rev Tax Adj | \$ | (393) |
| Prorated MPIR for Year 1 excl Rev Tax | \$ | 4,031 |

Note 1: Depreciation expense is recorded beginning in the year after an asset is placed in service, therefore, depreciation expense is zero in year 1. The revenue requirement for year 2 and thereafter will include depreciation expense at existing, approved depreciation accrual rates at the time of filing.

Note 2: Total O&M expense is estimated to cost \$1.787 million annually for year 1 (\$2.087 million annually during the interim period thereafter), as referenced within Attachment 1 - SGS Business Case Revenue Requirement Update.

Note 3: Difference in fuel inventory and difference in materials & supplies inventory derived from the "with Schofield" and "without Schofield" rate bases in the HECO 2017 test year rate cases. See Docket No. 2016-0328 HECO-3201 p. 3 and HECO-3203 p. 3.

Note 4: Transmittal No. 18-01 (Decoupling) - Hawaiian Electric's RBA Rate Adjustment, Schedule D, filed May 29, 2018.

Exhibit D

Updated Schedule B1

\$000\$ \$000\$

\$35,971 0.46429 -\$603 -\$2,143 0.60000

| Docket No. 2016-0328 Amounts (m) | \$ 1,529,709 \$ - \$ | \$ (327,609) \$ (466,211) \$ (135,915) | \$ 599,974 | · · · | \$ 13,828 \$ (1,229) \$ 12,599 | \$ 8,561 \$ (761) \$ 7,801 | | - | | \$ 620,374 | 2019 | \$50.808.650 \$47,086,404 \$50,250,313 \$49,505,884 \$52,111,435 \$249,762,666 |
|--|---|---|--|--|--|---|--|--|--|---|---|--|
| Docket No. 2016-0328 Amounts | \$ 1,529,709 \$ - | \$ (327,609) \$ (466,211) \$ (135,915) | \$ 599,974 | | \$ 13,828 \$ (1,229) \$ 12,599 | \$ 8,561 \$ (761) \$ 7,801 | | · \$ | | \$ 620,374 | 2018 | \$53,972,558 \$55,461,456 \$53,662,371 \$54,841,082 \$51,242,912 \$51,366,986 |
| Docket No. 2016-0328 Amounts (k) | ~ | (327,609) (466,211) (135,915) | 599,974 | | 13,828 (1,229) 12,599 | . | | | 612,574 | | 2018 | \$49,434,694 \$49,434,694 |
| Docket No. 2016-0328 Amounts (i) | 1,529,709 \$ | (327,609) \$ (466,211) \$ (135,915) \$ | 599,974 \$ | | | · · · | (16) \$ 1 \$ (14) \$ | | 599,960 | | Note (8) 2018 | \$28,726,095 \$50,396,658 \$79,122,753 |
| Docket No. 2016-0328 Amounts | 1,581,445 \$ (5,000) \$ (6,000) \$ | (327,609) \$ (466,211) \$ (139,534) \$ | 637,091 \$ | . | <i>.</i> | <i>.</i> | (16) \$ | ٠ | 637,077 | | Note (6), (8) 2018 | \$522,450,132 \$51,603,222 \$20,335,492 \$94,388,846 |
| Docket No. D 2010-0080 2 Amounts (h) | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | (8,986) \$ 92,146 \$ | | | (16) \$ | φ. | 604,302 | | Note (6) N 2018 | \$23,503,022 \$23,503,022 \$72,451,465 |
| Docket No. D. 2010-0080 20 Amounts (a) | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | 101,131 \$ (8,986) \$ 92,146 \$ | φ φ | . | (16) \$ 1 \$ (14) \$ | 9 | 604,302 \$ | | 2017 | \$51,184,359 \$52,997,265 \$52,997,265 \$52,453,393 \$53,057,695 \$49,915,326 \$49,915,326 \$49,915,326 |
| Docket No. Dc 2010-0080 20 Amounts A | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) | 512,170 \$ | & & & | | φ φ φ | & & & | | ₩ | | 2017 | \$48,009,623 \$48,009,633 \$48,009,633 \$46,468,574 \$50,024,842 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| Docket No. Dc 2010-0080 20 Amounts A | 5,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | 6 6 6 F | <i>ө</i> ө | 69 69 1 1 1 | 69 69 1 1 1 | 9 | | | 2016 | \$5.50,202,656 \$5.35,180,790 \$53,581,111 \$51,447,330 \$52,040,061 \$48,957,962 \$48,957,962 |
| Do 20 | \$ \$000\$ \$ \$000\$ | \$0008 \$0008 \$\$0008 | \$ \$000\$ | \$ \$000\$ \$ \$000\$ | \$ \$000\$ \$ \$000\$ | \$ \$000\$ \$ \$000\$ | \$ \$000\$ \$ \$000\$ | \$ \$000\$ | \$000\$ \$000\$ \$000\$ | \$000\$ | Note (4) | 8.19% 7.59% 8.10% 8.07% 8.07% 8.70% 8.70% 8.807% 8.807% 8.84% 8.84% 8.28% 8.28% 8.28% 8.28% 8.28% 8.28% 8.28% 8.38% |
| Reference (b) | Note (1), (5), (7), (7a) Note (5) Note (5) | Note (1), (5), (7), (7a) Note (1), (5), (7), (7a) | Sum Lines 14 | Note (2) Lines 6 + 7 | Note (9) Lines 9 + 10 | Schedule L Lines 12 + 13 | Note (2), (9) Lines 15 + 16 | Note (2), (9) | Col (g), lines (5+8+17+18) Col (l), lines (5+8+17+18) Col (l), lines (5+8+17+18) Col (k), lines (5+9+17+18) | Col (I), lines (5+11+14+17+18) | Note (3) | 8.10% 7.26% 8.10% 7.84% 8.44% 8.77% 9.04% 8.68% 8.26% 8.26% |
| Description (a) | Last Rate Case Annual Electric Revenue at Approved Rate Levels Less: Holdback of Interim Revenues Less: Customer Benefit Adjustment | Less: Fuel Expense Purchased Power Expense Revenue Taxes on Line 1 to 1b (8.885% statutory rates) | Last Rate Order Target Annual Revenues | Authorized RAM Revenues Less: Revenue Taxes on Line 12 at 8.885% Net RAM Adjustment - Test Year +6 | Authorized RAM Revenues Less: Revenue Taxes on Line 12 at 8.885% Net RAM Adjustment - Test Year +1 | Authorized MPIR Revenues Less: Revenue Taxes on Line 12 at 8.885% Net MPIR Adjustment | Less: EARNINGS SHARING REVENUE CREDITS Less: Revenue Taxes on Line 15 at 8.885% Net Earnings Sharing Revenue Credits | PUC-ORDERED MAJOR OR BASELINE CAPITAL CREDITS: | Total Annual Target Revenues June 1, 2017 Annualized Revenues w.RAM Increase February 16, 2018 Annualized Revenues winterim Increase April 13, 2018 Annualized Revenues w.Znd Interim Increase June 1, 2018 Annualized Revenues w.RAM Increase | June 1, 2018 Annualized Revenues w/RAM Increase & MPIR eff 7/1/18 | Distribution of Target Revenues by Month: | January February March April May Juny August September Cotober November December Total Distributed Target Revenues |
| Line No. | 1 | 2 F 4 | 5 Las | 9 2 8 | o 11 | 5 6 4 | 15 Les 16 17 | 18 | 19 Tot 22 23 24 | 25 | | 27 28 20 30 30 30 30 30 30 30 30 30 30 30 30 30 |

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

ATTACHMENT 1

Schedule B1, Schedule L and Supporting Workpapers

HAWAIIAN ELECTRIC COMPANY, INC.

Excerpt from Transmittal No. 19-01 - Notice Transmittal to Update Target Revenue for Schofield Generating Station through the Major Project Interim Recovery Adjustment Mechanism, filed February 7, 2019 and effective January 1, 2019. Pages 14 through 22.

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SCHEDULE B1 (REVISED 02/07/19) PAGE 1 OF 1

\$000\$ \$000\$

\$35,971 0.46429 -\$603 -\$2,143 0.60000

| Last Rate Case Ann | | | | | | | Silbolic | SIIID | AIIIOUIIIS | 1 | *** | | ŀ | | | Singilia | | 2 | SIIDOILL |
|--|---|---|---|--|----------------------------|--|----------------------------|--|--|--------------------------|--|---------------------|-------------------------------|--|----------------------------|--|------------------------------|--|--|
| ast Rate Case Ann | (a) | (q) | | (e) | | € | (a) | - | Ē) | | Ξ | - | 9 | € | | € | E) | | Ē |
| Less: Holdback of Interim Revenues Less: Customer Benefit Adjustment | Last Rate Case Annual Electric Revenue at Approved Rate Levels Less: Holdback of Interim Revenues Less: Customer Benefit Adjustment | Note (1), (5), (7), (7a) Note (5) Note (5) | \$000\$ \$000\$ | \$ 1,765,954 | | \$ 1,765,954 | \$ 1,765,954 | | \$ 1,765,954 | \$ \$ \$ | 1,581,445 (5,000) (6,000) | \$ \$ \$ | 1,529,709 | \$ 1,529,709 \$ - \$ - | \$ \$ \$ 60 | 1,529,709 | \$ 1,529,709 \$ - \$ - | \$ 602, | 1,529,709 |
| Less: Fuel Expense Purchased Po Revenue Taxe | Fuel Expense Purchased Power Expense Revenue Taxes on Line 1 to 1b (8.885% statutory rates) | Note (1), (5), (7), (7a) Note (1), (5), (7), (7a) | \$000\$ \$000\$ | \$ (658,172) \$ (438,707) \$ (156,905) | 72) \$ 07) \$ 05) \$ | (658,172) (438,707) (156,905) | \$ (65 \$ (43 \$ (15 | (658,172) \$ (438,707) \$ (156,905) \$ | \$ (658,172) \$ (438,707) \$ (156,905) | (2) (2) (5) (5) | (327,609) (466,211) (139,534) | \$ \$ \$ | (327,609) (466,211) (135,915) | \$ (327,609) \$ (466,211) \$ (135,915) | 09) \$ 11) \$ 15) \$ | (327,609) (466,211) (135,915) | 6 6 6 6 | (327,609) \$ (466,211) \$ (135,915) \$ | (327,609) (466,211) (135,915) |
| ast Rate Order Tar | Last Rate Order Target Annual Revenues | Sum Lines 14 | \$000\$ | \$ 512,170 | \$ 02 | 512,170 | \$ 51 | 512,170 \$ | \$ 512,170 | \$ 0. | 637,091 | € | 599,974 | \$ 599,974 | 74 \$ | 599,974 | \$ 296 | 599,974 \$ | 599,974 |
| Authorized R Less: Revent Net RAM Adj | Authorized RAM Revenues Less: Revenue Taxes on Line 6 at 8.885% Net RAM Adjustment - Test Year +6 | Note (2) Lines 6 + 7 | \$000\$ \$000\$ | · · · · · · · · · · · · · · · · · · · | ↔ ↔ | | 8 8 8 | (8,986) (92,146 | \$ 101,131 \$ (8,986) \$ 92,146 | 31 86) 8 8 | | ↔ ↔ | | · · · · · · · · · · · · · · · · · · · | မ မ | | ω ω | φ φ φ | |
| Authorized R Less: Revent Net RAM Adj | Authorized RAM Revenues Less: Revenue Taxes on Line 9 at 8.885% Net RAM Adjustment - Test Year +1 | Note (9) Lines 9 + 10 | \$000\$ \$000\$ | φ φ φ | မ မ | | & & & | | 9 9 9 | မ မ မ | | • • • | | \$ 13,828 \$ (1,229) \$ 12,599 | 28 29 99 \$ | 13,828 (1,229) 12,599 | • • • | 13,828 \$ (1,229) \$ 12,599 \$ | 13,828 (1,229) 12,599 |
| Authorized MPIR Reve Less: Revenue Taxes Net MPIR Adjustment | Authorized MPIR Revenues Less: Revenue Taxes on Line 12 at 8.885% Net MPIR Adjustment | Schedule L Lines 12 + 13 | \$000\$ \$000\$ | φ φ φ | ∞ ∞ | | \$ \$ \$ | | · · · · · · · · · · · · · · · · · · · | မှ မှ | | & & & | | φ φ φ | မ မ မ | 6,600 (586) 6,014 | & & & | 8,561 \$ (761) \$ 7,800 | 19,811 (1,760) 18,051 |
| Less: EARNINGS S Less: Revent Net Earnings | EARNINGS SHARING REVENUE CREDITS Less: Revenue Taxes on Line 15 at 8.885% Net Earnings Sharing Revenue Credits | Note (2), (9) Lines 15 + 16 | \$000\$ \$000\$ | φ φ φ | \$ \$ \$ | | \$ \$ \$ | (16) \$ | 5 8 8 | (16) \$ (14) \$ | (16) | \$ \$ \$ | (16) 8 | 9 9 9 | မ မ မ | | өө | φ φ φ | |
| PUC-ORDER | PUC-ORDERED MAJOR OR BASELINE CAPITAL CREDITS: | Note (2), (9) | \$000\$ | € | ₩. | | ₩. | * | · \$ | ↔ | | €9 | | \$ | ₩. | , | € | φ. | ' |
| Total Annual Target Revenues June 1, 2017 Annualized February 16, 2018 Annualized April 13, 2018 Annualized June 1, 2018 Annualized June 1, 2018 Annualized June 1, 2018 Annualized June 1, 2018 Annualized | Innual Target Revenues June 1, 2017 Amualizad Revenues w/RAM Increase Petubary 16, 2018 Amualizad Revenues w/RAM Increase April 13, 2018 Amualizad Revenues w/RAM Increase June 1, 2018 Amualizad Revenues w/RAM Increase Ment, 2018 Amualizad Revenues w/RAM Increase Ment, 2018 Amualizad Revenues w/RAM Increase & Mel Ref 71/18 Mel 2, 2018 Amualizad Revenues w/RAM Increase & Mel Ref 71/18 | Col (g), lines (5+8+17+18) Col (l), lines (5+8+17+18) Col (k), lines (5+8+17+18) Col (k), lines (5+9+17+18) Col (l), lines (5+11+14+17+18) Col (l), lines (c) (l), lines (c) (l), lines (c) (l), lines (c) (l), lines | \$000\$ \$000\$ \$000\$ \$000\$ | | | | 9 | 604,302 \$ | \$ 604,302 | \$ | 637,077 | ₩ | 299,960 | \$ 612,574 | 4 ⁷ | 618,587 | \$ 620 | 620,374 | |
| June 1, 2018 Annua MPIR eff 1/1/19 | June 1, 2018 Annualized Revenues w/RAM Increase & MPIR eff 1/1/19 | Col (m), lines (5+11+14+17+18) | \$000\$ | | | | | | | | | | | | | | | 63 | 630,624 |
| istribution of Targe | Distribution of Target Revenues by Month: | Note (3) | Note (4) | 2016 | | 2017 | 2017 | 17 | Note (6) 2018 | | Note (6), (8) 2018 | ў % | Note (8) 2018 | 2018 | _ | Note (10) 2018 | Note (10a) 2018 | 0a) | Note (10b) 2019 |
| January February March April May | | 8.10% 7.26% 8.10% 7.84% 8.44% | 8.19% 7.59% 8.10% 7.98% 8.40% | | ļ | \$48,009,623 \$43,030,848 \$48,009,623 \$46,468,574 \$50,024,842 | l | | \$48,948,443 \$23,503,022 | l | \$22,450,132 \$51,603,222 \$20,335,492 | | \$28,726,095 \$50,396,658 | | | | | | \$51,648,125 \$47,864,379 \$51,080,563 \$50,323,814 \$52,972,435 |
| June July August September October November | | 8.47% 9.04% 9.04% 8.68% 8.78% 8.26% | 8.07% 8.70% 8.94% 8.65% 8.26% | \$50,202,656 \$51,980,790 \$53,581,111 \$51,447,350 \$52,040,061 \$48,957,962 | | | | \$51,184,359 \$52,997,265 \$54,628,879 \$52,453,393 \$53,057,695 \$49,915,326 | | | | | | \$49,434,694 | | \$53,817,090 \$55,301,700 \$53,507,797 | \$54,841,062 \$51,242,893 | | |
| December Total Distributed Target Revenues | det Revenues | 8.26% | 100.00% | \$48,957,962 | | \$235,543,510 | \$364.1 | \$49,915,326 \$364,152,243 | \$72.451.465 | ļ | \$94,388,846 | \$79 | \$79.122.753 | \$49,434,694 | U | \$162,626,587 | \$51,366,968 | | \$253,889,316 |

Docket No.

HAWAIIAN ELECTRIC COMPANY, INC, DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

Docket No. 2010-0080 amounts derived from Order No. 30576, filed August 9, 2012, effective September 1, 2012, which implemented Decision and Order No. 30505, Exhibit A, page 1, filed June 29, 2012. Transmitted 17-20 filed March 31, 2017 establishing 2017 target revenue effective June 1, 2017.

RBA Tariff Revised July 26, 2011 to reflect 2011 test) year.

RBA Tariff Elecuye February 18, 2018 to reflect 2017 test year.

RBA Tariff Elecuye February 18, 2018 to reflect 2017 test year.

RBA Tariff Elecuye February 18, 2018 to reflect 2017 test year.

Test Year 2017 Interim Increase provided for in Interim Decision and Order 35100, issued December 15, 2017 in Docket No. 2016-0328.

For the month of the Interim Increase provided for in Interim Decision and Order 35100, issued December 15, 2018, in accordance with Order No. 35335, issued March 2018 decision and Order 3510, adjust the monthly allocation by the number of effective days in the month over the total number of days:

For the month of the Interim Implementation (April 2018), adjust the monthly allocation by the number of effective days in the month over the total number of days:

For the month of the Interim Implementation (April 2018), adjust the monthly allocation by the number of effective days in the month over the total number of days:

For the month of the Interim Content of the Interim Content of the Interim Content of the No. 35454, stable Angel 18, 2018 in Docket No. 2017-0213.

MPIR Revenues effective October 1, 2018 approved in Order No. 35545, issued December 14, 2018 in Docket No. 2017-0213.

MPIR Revenues effective Lanuary 1, 2019 filed in Transmittal 19-01 on February 7, 2019. 100 100 100

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SCHEDULE L (REVISED 02/07/19) PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK REVENUE REQUIREMENT AND DETERMINATION OF MAJOR PROJECT INTERIM RECOVERY MPIR PROJECT \$ in thousands

| | | | | | | | Ending | | | |
|----------|--|--------------------|------|----------|----------|---------|---------------|-------------------|-----|--------------|
| | | | Reco | rded at | 2019 | | Balance | Average | | |
| Line No. | Description | Reference | 12/3 | 1/2018 | Activity | a | s of 12/31/19 | Balance | | MPIR |
| | (a) | (b) | | (c) | (d) | | (e) | (f) = ((c)+(e))/2 | | (g) |
| | Return on Investment - Schofield Generating Station | () | | ` ' | () | | ` ' | () (() ()) | | (3) |
| 1 | Gross Plant in Service (not to exceed PUC approved amount) | HECO-WP-L-001 | | 141,570 | | _ | 141,570 | 141,570 | | |
| 2 | Accum Depreciation | HECO-WP-L-001 | | - | (4 | 586) | (4.586) | (2,293) | | |
| 3 | Net Cost of Plant in Service | | - | 141,570 | | 586) | 136,984 | 139,277 | | |
| _ | | | | , | (- , | , | , | , | | |
| 4 | Fuel Inventory - Avoided | Note 3 | | (1,534) | | _ | (1,534) | (1,534) |) | |
| 5 | M&S Inventory | Note 3 | | 100 | | _ | 100 | 100 | | |
| 6 | Total Additions | 11010 0 | - | (1,434) | | | (1,434) | (1,434) | | |
| Ū | Total / taditions | | | (1,404) | | | (1,404) | (1,404) | , | |
| 7 | CIAC | Not Applicable | | _ | | _ | _ | _ | | |
| 8 | ADIT | HECO-WP-L-002 | | (8,653) | (1 | 540) | (10,193) | (9,423) | ١ | |
| 9 | State ITC | HECO-WP-L-002 | | (4,124) | | 412 | (3,712) | (3,918) | | |
| 10 | Total Deductions | 11200 111 2 002 | | (12,777) | | 128) | (13,905) | (13,341) | | |
| 10 | Total Deductions | | | (12,111) | (1, | 120) | (13,303) | (10,041) | , | |
| 11 | Total Rate Base | | \$ | 127,359 | ¢ (5 | 713) \$ | 121,646 | 124,502 | | |
| | Total Nate Base | | Ψ | 121,000 | Ψ (5, | /10) ψ | 121,040 | 124,502 | | |
| 12 | Average Rate Base | | | | | | | \$ 124,502 | | |
| | /// stage / tate Base | | | | | | | | | |
| 13 | Rate of Return (grossed-up for income taxes, before revenue taxes) | Note 4 | | | | | | 9.47% | | |
| | (9 , | | | | | | | | - | |
| 14 | Annualized Return on Investment (before revenue taxes) | | | | | | | | \$ | 11,790 |
| | , | | | | | | | | | , |
| 15 | Depreciation Expense (Note 1) | HECO-WP-L-001 | | | | | | 4,586 | | |
| 16 | Operating & Maintenance Expense | Note 2 | | | | | | 2,087 | | |
| 16a | Prior year reconciliation of O&M to actuals | Note 2 | | | | | | - | | |
| 17 | Amortization of State ITC | see line 6 | | | | | | (412) |) | |
| 18 | Lease Rent Expense | Not Applicable | | | | | | `- ' | , | |
| 19 | Other Expense | Not Applicable | | | | | | _ | | |
| 20 | Total Expenses | . tot / tppilodbio | | | | | | | - s | 6,260 |
| | · · · · · · · · · · · · · · · · · · · | | | | | | | | * | -, |
| 21 | Total Major Project Interim Recovery | | | | | | | | \$ | 18,051 |
| | , , | | | | | | | | | ,,,,, |
| 22 | Revenue Tax Factor (1/(1-8.885%)) | | | | | | | | | 1.0975 |
| | , | | | | | | | | | |
| 23 | Annualized Revenue for Major Project Interim Recovery | | | | | | | | \$ | 19,810.8 |
| | | | | | | | | | Т | o Sch B & B1 |

| | | Reconciliation | on to | Schedule B | 1 (Ir | ifo Only) |
|---------------------------------------|-----|----------------|-------|------------|-------|-----------|
| | Jul | - Sep 2018 | Oct | - Dec 2018 | | 2019 |
| Annualized Revenue for MPIR | \$ | 6,600 | \$ | 8,561 | \$ | 19,811 |
| Rev Tax Adj | \$ | (586) | \$ | (761) | \$ | (1,760) |
| Prorated MPIR for Year 1 excl Rev Tax | \$ | 6,014 | \$ | 7,800 | \$ | 18,051 |
| Incremental | \$ | 6,014 | \$ | 1,787 | \$ | 10,250 |
| | | Note 5 | | Note 6 | | |

Note 1: Depreciation expense is recorded beginning in the year after an asset is placed in service, therefore, depreciation expense is zero in year 1. The revenue requirement for year 2 and thereafter will include depreciation expense at existing, approved depreciation accrual rates at the time of filing.

Note 2: Total O&M expense is estimated to cost \$1.787 million annually for year 1 (\$2.087 million annually during the interim period thereafter), as referenced within Attachment 1 - SGS Business Case Revenue Requirement Update and approved in Order No. 35953, filed December 14, 2018.

- Note 3: Decision and Order No. 35556 dated June 27, 2018 in Docket No. 2017-0213.
- Note 4: Transmittal No. 18-01 (Decoupling) Hawaiian Electric's RBA Rate Adjustment, Schedule D, filed May 29, 2018.
- Note 5: MPIR Revenues effective July 1, 2018 approved in Order No. 35647, issued August 15, 2018 in Docket No. 2017-0213.
- Note 6: MPIR Revenues effective October 1, 2018 filed December 21, 2018 in Docket No. 2017-0213.

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4,585,844

Schofield Generating Station Plant Addition As of December 31, 2018

| | (Note 1) | | | | (Note 2) | |
|--------------------|---------------------------|------------------------|----------------------|--------------|----------------|-------------------------------|
| Utility Account | PUC Approved Accrual Rate | Balance at 12/31/18 | Depreciation 2019 | Allocation % | Subject to Cap | Depreciation 2019 (at Cap) |
| Account | a | b | c = a x b | d | e = d x Cap | f = a x e |
| 343 | 0.03260 | 142,147,612 | 4,634,012 | 98.2% | 139,030,987 | 4,532,410 |
| 352 | 0.01600 | 2,003,490 | 32,056 | 1.4% | 1,959,563 | 31,353 |
| 353 | 0.01860 | 352,190 | 6,551 | 0.2% | 344,468 | 6,407 |
| 397 | 0.06670 | 240.250 | 16.025 | 0.2% | 234.983 | 15.673 |

4,688,643

100.0%

141,570,000

Source: SAP and Powerplan WBS.

Note 1:

Depreciation rates approved in Docket No. 2010-0053, Decision and Order, filed May 12, 2011.

144,743,542

Note 2:

Decision and Order No. 33178, p. 84-85, Docket No. 2014-0113, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for the Purchase and Installation of Item P0001576, Schofield Generating Station Project, filed 09/29/2015. The Commission approved a cap on the amount of the total costs that may be recovered through any cost recovery mechanism other than base rates at 90% of the \$167 million cap. The \$167 million cap shall further be adjusted downward due to a reduction in the foreign exchange rate.

In the Letter to Commission Re: Docket No. 2014-0113, Schofield Generating Station; Notification of Euro Exchange Rate and Adjusted Project Cap, filed 01/27/2016, the Company locked in the foreign exchange rate at \$1.0928/euro which adjusted the project cap down from \$167 million to \$157.3 million. Revised cap on the amount of total costs allowed to be recovered through any cost recovery mechanism other than base rates is \$141.57 million (\$157.3 million x 90%).

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| HAWAIIAN ELECTRIC CO., INC. SCHOFIELD GENERATING STATION - WITH BONUS DECEMBER 31, 2019 | VITH BONUS | | | | | | | 2019 Add | ppv | |
|---|-------------------|---------------------------|-------------------------|--------------------------|--------------------------|----------------------|---------------------------|---------------------------------------|--------------------|---|
| FEDERAL DEFERRED TAXES | source | Tax Depreciation | AFUDC | Tax Cap Interest | State ITC | Removal | 2018 Total | Book/Tax Depr | State ITC Amort | 2019 Total |
| 1 State Book/Tax Difference | HECO.WP.I001 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (12,753,951) | (412 415) | (19,716,566) |
| 2 Door Depocation 3 Subtotal | Line 1 + Line 2 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (8,168,107) | (412,415) | (15,543,137) |
| 4 Effective Federal Tax Rate | | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% |
| 5 Federal Def Tax on State Book/Tax Diff | Line 3 * Line 4 | (1,323,584) | (2,309,724) | 1,481,649 | 813,976 | (36,513) | (1,374,197) | (1,612,123) | (81,398) | (3,067,718) |
| 6 Addback State Book/Tax Difference 7 Federal Book/Tax Difference 8 Rook Demeciation | Line 3 | 6,706,173 (39,373,231) | 11,702,627 (11,702,627) | (7,507,036) 7,507,036 | (4,124,152) 4,124,152 | 185,002 (185,002) | 6,962,615 (39,629,673) | 8,168,107 (9,565,463) 4,585,844 | 412,415 | 15,543,137 (49,195,136) 4 173 428 |
| | Line 6 + 7 + 8 | (32,667,058) | | 1 | | ı | (32,667,058) | 3,188,488 | | (29,478,570) |
| 10 Tax Rate on Federal Only Adjustment | | 21% | 21% | 21% | 21% | 21% | 21% | 21% | 21% | 21% |
| 11 Federal Deferred Tax Adjustment | Line 9 * Line 10 | (6,860,082) | | | | | (6,860,082) | 669,582 | | (6,190,500) |
| 12 Total Federal Deferred Taxes | Line 5 + Line 11 | (8,183,666) | (2,309,724) | 1,481,649 | 813,976 | (36,513) | (8,234,279) | (942,541) | (81,398) | (9,258,218) |
| STATE DEFERRED TAXES | П | | | | | | | | | |
| 13 State Book/Tax Difference | Line 1 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (12,753,951) | - (212, 215) | (19,716,566) |
| | Line 1 + Line 2 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (8,168,107) | (412,415) | (15,543,137) |
| 16 Effective State Tax Rate | | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% |
| 17 Total State Deferred Taxes | Line 15 * Line 16 | (403,379) | (703,917) | 451,551 | 248,069 | (11,128) | (418,804) | (491,315) | (24,807) | (934,926) |
| 18 TOTAL DEFERRED TAXES | Line 12 + Line 17 | (8,587,045) | (3,013,641) | 1,933,200 | 1,062,045 | (47,641) | (8,653,083) | (1,433,856) | (106,205) | (10,193,144) |

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| CO., INC. | | TON STATION |
|-----------------------------|------------------|------------------------------|
| HAWAIIAN ELECTRIC CO., INC. | TAX DEPRECIATION | SCHOFIELD GENERATION STATION |

| Project No. | Description | Book Basis | Less: AFUDC | Add: TCI | Tax Basis | Plant Acct Life Bonus | ife Bon | sr 2018 | 2019 | Net Book Value |
|--|--|--|--|--|--|--|---|--|--|--|
| FEDERAL | _ | | | | | | | | | |
| P0001576 P0001576 P0001576 P0001576 P0001576 | Schofield Generation Station Schofield Generation Station Schofield Generation Station Schofield Generation Station Schofield Generation Station | 64,076,545 64,076,545 5,625,855 5,625,855 1,082,599 1,082,599 | (5,275,285) (5,275,285) (510,973) (510,973) (65,056) (65,056) | 3,384,005 3,384,005 327,780 327,780 41,732 | 62,185,266 62,185,266 5,442,663 5,442,663 1,059,276 1,059,276 | Oth Prod Oth Prod Trans Trans Comm | 15 50% 15 0% 20 50% 20 0% 20 50% 20 0% | 6 32,647,265 3,109,263 6 2,823,381 204,100 6 549,499 | 2,953,800 5,907,600 196,453 392,906 38,235 76,469 | 28,475,480 55,059,682 2,606,021 5,028,849 494,865 966,407 |
| | Total Cumulative | 141,570,000 | (11,702,627) | 7,507,036 | 137,374,409 | | | 39,373,231 | 9,565,463 | 92,631,306 |
| HAWAII | _ | | | | | | | | | |
| P0001576 P0001576 P0001576 | Schofield Generation Station Schofield Generation Station Schofield Generation Station | 128,153,091 11,251,710 2,165,199 | (10,550,569) (1,021,945) (130,112) | 6,768,010 655,561 83,465 | 124,370,532 10,885,325 2,118,551 | Oth Prod Trans Comm | 15 0 20 0 20 0 | 6,218,527 408,200 79,446 | 11,815,201 785,812 152,938 | 110,119,363 10,057,698 1,932,815 |
| | Total Cumulative | 141,570,000 | (11,702,627) | 7,507,036 | 137,374,409 | | | 6,706,173 | 12,753,951 19,460,124 | 122,109,876 |

Hawaiian Electric Company, Inc. Breakdown of SGS Costs by Major Area Actuals through December 2018

| TOTAL PLANT ADDITONS: | A | В | С | D | E=SUM(B:D) | F=A+E | | (Note 1) |
|-------------------------------|-------------|-----------|-----------|------------|-----------------|---------------|--------------|-------------|
| | Generating | | | Making | T 1 | | | Cultivation |
| | Station and | | | Wahiawa | Total | | | Subject to |
| Expense Element | Switchyard | 46kV Line | Telecom | Substation | Interconnection | Total Project | Allocation % | Сар |
| Labor | 2,293,428 | 1,712,982 | 305,919 | 741,234 | 2,760,135 | 5,053,564 | 3.5% | 4,942,763 |
| Materials | 32,932,285 | 1,523,772 | 545,040 | 512,566 | 2,581,378 | 35,513,663 | 24.5% | 34,735,016 |
| Vehicles | 2,062 | 117,109 | 187 | 563 | 117,859 | 119,921 | 0.1% | 117,292 |
| Overheads | 12,885,912 | 2,456,221 | 544,975 | 928,736 | 3,929,932 | 16,815,844 | 11.6% | 16,447,152 |
| AFUDC | 10,787,079 | 703,160 | 133,029 | 341,694 | 1,177,883 | 11,964,962 | 8.3% | 11,702,627 |
| Outside Services-Construction | 69,147,360 | 614,746 | 59,095 | 80,179 | 754,019 | 69,901,379 | 48.3% | 68,368,772 |
| Outside Services-Other | 2,550,389 | 1,421,977 | 621,195 | 348,999 | 2,392,171 | 4,942,560 | 3.4% | 4,834,193 |
| Other | 427,354 | - | 4,296 | - | 4,296 | 431,650 | 0.3% | 422,186 |
| | 131,025,869 | 8,549,966 | 2,213,736 | 2,953,971 | 13,717,673 | 144,743,542 | 100.0% | 141,570,000 |

| BREAKDOWN SUBJECT TO CAP: | A1 | B1 | C1 | D1 | E1=SUM(B1:D1) | F1=A1+E1 | |
|-------------------------------|-------------|-----------|-----------|------------|-----------------|---------------|-------------|
| | Generating | | | | | | |
| | Station and | | | Wahiawa | Total | | / |
| Expense Element | Switchyard | 46kV Line | Telecom | Substation | Interconnection | Total Project | State ITC |
| Labor | 2,243,144 | 1,675,424 | 299,212 | 724,982 | 2,699,618 | 4,942,763 | |
| Materials | 32,210,236 | 1,490,363 | 533,090 | 501,328 | 2,524,781 | 34,735,016 | 34,735,016 |
| Vehicles | 2,017 | 114,541 | 183 | 551 | 115,275 | 117,292 | |
| Overheads | 12,603,385 | 2,402,368 | 533,026 | 908,373 | 3,843,767 | 16,447,152 | |
| AFUDC | 10,550,569 | 687,743 | 130,112 | 334,202 | 1,152,058 | 11,702,627 | |
| Outside Services-Construction | 67,631,285 | 601,267 | 57,799 | 78,421 | 737,487 | 68,368,772 | 68,368,772 |
| Outside Services-Other | 2,494,471 | 1,390,800 | 607,576 | 341,347 | 2,339,722 | 4,834,193 | |
| Other | 417,984 | = | 4,202 | - | 4,202 | 422,186 | K |
| | 128,153,091 | 8,362,506 | 2,165,199 | 2,889,204 | 13,416,909 | 141,570,000 | (Note 1) |
| Amount subject to bonus | 50% | 50% | 50% | 50% | 50% | 50% | 103,103,789 |
| | 64,076,545 | 4,181,253 | 1,082,599 | 1,444,602 | 6,708,455 | 70,785,000 | 4% |
| - | | | | | | | 4,124,152 |
| | | | 5,625,855 | | | | |
| Tie out of TCI: | | | | | | | |
| AFUDC | 10,550,569 | 687,743 | 130,112 | 334,202 | 1,152,058 | 11,702,627 | |
| ratio - 5 year average | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | |
| TCI | 6,768,010 | 441,175 | 83,465 | 214,385 | 739,025 | 7,507,036 | |
| - | | | | | | | • |
| | | | 655,561 | | | | |

Source: Ellipse & SAP

Note 1

 $Allocated \ 12/31/18 \ Plant \ Addition \ subject \ to \ the \ cap \ of \ \$141.57M. \ \ See \ further \ discussion \ at \ HECO-WP-L-001.$

Hawaiian Electric Company, Inc. Annual - TCI Closed to AFUDC Closed Ratio

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | 5 Yr Ave |
|----------|-------------|-------------|-------------|-------------|-------------|------------|
| TCI | 3,820,695 | 4,825,860 | 4,299,588 | 4,056,549 | 5,041,274 | 22,043,966 |
| AFUDC | 5,511,275 | 7,365,025 | 6,668,924 | 6,540,575 | 8,278,273 | 34,364,072 |
| - | 0.000054 | 0.055040 | 0.044700 | 0.00040 | | |
| Ratio | 0.693251 | 0.655240 | 0.644720 | 0.620213 | 0.608977 | 0.641483 |

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Hawaiian Electric Company, Inc.
MPIR Removal Costs
Actuals Through December 31, 2018

| Row Labels | Sum of amount |
|-------------|---------------|
| Labor | 90,530 |
| Materials | 46 |
| Overheads | 94,426 |
| Grand Total | 185,002 |

SOURCE: Ellipse & SAP

HAWAIIAN ELECTRIC COMPANY, INC. 2018 WEIGHTED AVERAGE PIM TARGET, DEADBAND, INCENTIVE CALCULATIONS

| | | | | | | | | | Delta | |
|-------------|-----------------------|-----------|-----------|-------------|----------|-------------|------------|--------------|-----------------|-----------------------|
| | | | Max | | | Range for N | No Penalty | 2018 | vs | |
| | Period | # of Days | Penalty | 2018 Target | Deadband | Lower | Upper | Annual Total | Target | (Penalty) / Reward |
| | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) = (h) - (d) | (j) |
| | | | | | | | | Note 1 | | |
| SAIFI | 1/1/18-2/15/18 | 46 | 2,039,094 | 1.116 | 0.090 | 1.026 | 1.206 | 1.238 | 0.122 | |
| | 2/16/18-4/12/18 | 56 | 2,260,799 | 1.116 | 0.090 | 1.026 | 1.206 | 1.238 | 0.122 | |
| | 4/13/18-8/31/18 | 141 | 2,276,417 | 1.116 | 0.090 | 1.026 | 1.206 | 1.238 | 0.122 | |
| | 9/1/18-12/31/18 | 122 | 2,276,417 | 1.103 | 0.088 | 1.015 | 1.191 | 1.238 | 0.135 | |
| | Annual (Weighted Avg) | 365 | 2,244,112 | 1.112 | 0.089 | 1.022 | 1.201 | 1.238 | 0.126 | (929,827) To Sch M |
| | | | | | | | | Note 1 | | 10 5011 111 |
| SAIDI | 1/1/18-2/15/18 | 46 | 2,039,094 | 99.030 | 9.070 | 89.960 | 108.100 | 106.410 | 7.380 | |
| | 2/16/18-4/12/18 | 56 | 2,260,799 | 99.030 | 9.070 | 89.960 | 108.100 | 106.410 | 7.380 | |
| | 4/13/18-8/31/18 | 141 | 2,276,417 | 99.030 | 9.070 | 89.960 | 108.100 | 106.410 | 7.380 | |
| | 9/1/18-12/31/18 | 122 | 2,276,417 | 99.230 | 8.960 | 90.270 | 108.190 | 106.410 | 7.180 | |
| | Annual (Weighted Avg) | 365 | 2,244,112 | 99.097 | 9.033 | 90.064 | 108.130 | 106.410 | 7.313 | To Sch M |
| | | | | | | | Н | ECO-WP-M-0 | 04 | 10 Scn W |
| Call Center | 1/1/18-2/15/18 | 46 | 815,638 | 79.07% | 3.00% | 76.07% | 82.07% | 83.97% | 1 | |
| | 2/16/18-4/12/18 | 56 | 904,320 | 79.46% | 3.00% | 76.46% | 82.46% | 83.97% | 1 | |
| | 4/13/18-8/31/18 | 141 | 910,567 | 79.56% | 3.00% | 76.56% | 82.56% | 83.97% | 1 | |
| | 9/1/18-12/31/18 | 122 | 910,567 | 80.10% | 3.00% | 77.10% | 83.10% | 83.97% | • | |
| | Annual Totals | 365 | 897,645 | 79.66% | 3.00% | 76.66% | 82.66% | 83.97% | 4.31% | 391,972 To Sch M |

Reference: See Hawaiian Electric Compay Proposed PIM Tariff Revisions, filed on July 23, 2018 in Docket No. 2016-0328. The PIM Tariff Revisions were approved by the Commission in Order No. 35661, filed on August 30, 2018.

Note 1 SAIDI and SAIFI Annual Totals <u>exclude</u> 25 kV Proactive Work (See HECO-WP-M-002):

| | SAIDI | SAIFI | |
|-------------------------------|--------|--------|-----------------------------|
| Occurrences / Minutes | 111.94 | 1.253 | With 25kV Proactive Work |
| Less: Exclusion for 25kV work | -5.52 | -0.015 | |
| Annual Totals | 106.41 | 1.238 | Without 25kV Proactive Work |
| | | | |

HAWAIIAN ELECTRIC COMPANY, INC. 2018 SAIDI and SAIFI Calculations With and Without 25 kV Scheduled Work Outages

| Without 25 kV Scheduled Work Outages | | | | | | | | | | | | | | |
|--|--------------------|---------------------------|------------------------|-----------|----------------------------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-------------|---------------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | YTD | |
| Hours Interrupted | 28,350.82 | 38,535.98 | 36,195.83 | 48,912.83 | 47,852.78 | 45,741.20 | 26,594.23 | 52,088.65 | 70,669.87 | 38,183.60 | 46,352.93 | 61,396.90 | 540,875.63 | |
| Customer Interruptions | 19,170 | 25,947 | 26,983 | 49,443 | 27,712 | 34,644 | 21,028 | 29,939 | 46,557 | 24,863 | 21,382 | 49,779 | 377,447 | |
| | | | | | | | | | | | | | | |
| SAIDI (Minutes) | 5.58 | 7.58 | 7.12 | 9.62 | 9.41 | 9.00 | 5.23 | 10.25 | 13.90 | 7.51 | 9.12 | 12.08 | 106.41 | HECO-WP-M-001 |
| SAIFI (Occurrences) | 0.063 | 0.085 | 0.088 | 0.162 | 0.091 | 0.114 | 0.069 | 0.098 | 0.153 | 0.082 | 0.070 | 0.163 | 1.238 | HECO-WP-M-001 |
| With 25 kV Scheduled Work Outages | | | | | | | | | | | | | | |
| | Jan | Feb | Mar | Apr | Mav | Jun | Jul | Aug | Sep | Oct | Nov | Dec | YTD | |
| Hours Interrupted | 28,350.82 | 38,535.98 | 36,195.83 | 48,912.83 | 47,852.78 | 45,741.20 | 54,673.72 | 52,088.65 | 70,669.87 | 38,183.60 | 46,352.93 | 61,396.90 | 568,955.12 | |
| Customer Interruptions | 19,170 | 25,947 | 26,983 | 49,443 | 27,712 | 34,644 | 25,686 | 29,939 | 46,557 | 24,863 | 21,382 | 49,779 | 382,105 | |
| | | | | | | | | | | | | | | |
| SAIDI (Minutes) | 5.58 | 7.58 | 7.12 | 9.62 | 9.41 | 00.6 | 10.76 | 10.25 | 13.90 | 7.51 | 9.12 | 12.08 | 111.94 | HECO-WP-M-001 |
| SAIFI (Occurrences) | 0.063 | 0.085 | 0.088 | 0.162 | 0.091 | 0.114 | 0.084 | 0.098 | 0.153 | 0.082 | 0.070 | 0.163 | 1.253 | HECO-WP-M-001 |
| Difference Between With and Without 25 kV Scheduled Work Outages (See Note Below) | | | | | | | | | | | | | | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | YTD | |
| Hours Interrupted | | | | | | | (28,079) | | | • | | | (28,079) | |
| Customer Interruptions | | | | | | | (4,658) | | • | | | | (4,658) | |
| CAIN Ministra | | | | | | | C 2 2 | | | | | | 65.5 | |
| SAIDI (Milliutes) | | | | | | | 3.32 | | | | | | 3.32 | |
| SAIFI (Occurrences) | • | | | | | | 0.015 | | | | | | 0.015 | |
| Note: | | • | | | | | | | | | | | | |
| | Date of | | Customor | | | | | | | | | | | |
| 25 kV Schedule Work Outage Events (see HECO-WP-M-003 for more details) | exclusion event | Customer Interruptions | Minutes Interrunted | | | | | | | | | | | |
| | mava | | merrupieu | | | | | | | | | | | |
| | 7/5/2018 | (329) | (138,838) | | | | | | | | | | | |
| | 7/16/2018 | (881) | (317,160) | | | | | | | | | | | |
| | 7/17/2018 | (1,003) | (399,020) | | | | | | | | | | | |
| | 7/18/2018 | (1,004) | (341,342) | | | | | | | | | | | |
| | 7/19/2018 | (585) | (192,357) | | | | | | | | | | | |
| | 7/23/2018 | (418) | (150,062) | | | | | | | | | | | |
| | 7/24/2018 | (418) | (138,610) | | | | | | | | | | | |
| | 7/25/2018 | (20) | (7,380) | | | | | | | | | | | |
| | Total | (4,658) | (1,684,769) | (28,079) | (28,079) Hours Interrupted | ted | | | | | | | | |
| | | | | | | | | | - | | | | | |
| | Jan | Feb | Mar | Apr | May | unf | m | Aug | Sep | t Oct | Nov | Dec | VID V | |
| Lotal Customer Minutes Interrupted without 25 kV Scheduled Work Outages | 1,701,049 | 2,312,159 | 2,171,750 | 2,934,770 | 2,871,167 | 2,744,472 | 1,595,654 | 3,125,319 | 4,240,192 | 2,291,016 | 2,781,176 | 3,683,814 | 32,452,538 | |
| Total Customer Minutes Interrupted with 25 kV | | | | | | | | | | | | | | |
| Scheduled Work Outages | 1,701,049 | 2,312,159 | 2,171,750 | 2,934,770 | 2,871,167 | 2,744,472 | 3,280,423 | 3,125,319 | 4,240,192 | 2,291,016 | 2,781,176 | 3,683,814 | 34,137,307 | |
| Difference | 1 | - | - | - | - | | (1,684,769) | | | | | - | (1,684,769) | |

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, SWITCH NO | TIME OUT | TIME IN | TOTAL | CLASS -TYPE | AREA, DISTRICT OR SUBSTATION AFFECTED | RPT | EXPLANATION |
|--|----------|---------------------|------------|----------------|---|------|---|
| IWILEI 138KV 3 SUB IWILEI 9 25KV CKT CB-7754 BREAKER 7754 | 23:00 | | | D-2 | 821 BETHEL ST V-8196, 821 BETHEL ST V-6645 | 1664 | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE BETWEEN H/C NEAR V10308 PIER 12 AND H/C NEAR V10308 PIER 15 TO REPAIR A DEFECTIVE UNDERGROUND CABLE. IWILEI 13 CKT WAS ABNORMAL DUE TO HOT CAPS ON RO#125230 REQ#2054. E#259743. RELATED TO IR#1671. PTM: DELACRUZ, KEALII; ROSALES, RAY; PITT, ANTHONY; AHMOOK SANG, BRAD; PARK, JAMES; AHMOOK SANG, BRAD; PARK, JAMES; SIGN: OSHIRO, KELLY |
| BREAKER CB-7754 | | 06:02 07/06/2018 | 7 HR 2 MIN | | 821 BETHEL ST V-8196, 821 BETHEL ST V-6645 CUST: 3 | | |
| IWILEI 138KV 4 SUB IWILEI 13 25KV CKT CB-7759 SECTIONALIZER CB7754 | 23:00 | | | D-2 | 1020 MAUNAKEA ST V-7566, 60 NIMITZ N. HWY V-6646, 60 NIMITZ N. HWY V-6646B, 801 NUUANU AVE V-6936, 12 Pier V-10308, 15 Pier V-10309 | 1671 | SECTIONALIZER ABC PHASE #CB7754 WAS OPENED IN IWILEI SUBSTATION DUE TO A SCHEDULED OUTAGE BETWEEN H/C NEAR SW V10309 AND H/C NEAR SW V10309 AND H/C NEAR SW V10309 AND H/C NEAR SW V10308 TO REPAIR A DEFECTIVE UNDERGROUND CABLE. SCHEDULED OUTAGE TO REPAIR FAULTED IWILEI 13 CKT RO#125230 REQ#2054. E#259743 RELATED TO IR#1664 REQ#2076 PTM: AHMOOK SANG, BRAD SIGN: MACEY, JENNIFER |
| BREAKER CB7754 | | 06:02 07/06/2018 | 7 HR 2 MIN | | 1020 MAUNAKEA ST V-7566, 60 NIMITZ N. HWY V-6646B, 801 NUUANU AVE V-6936, 12 Pier V-10308, 15 Pier V-10309 CUST: 326 | | |

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.01

Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Date: July 5, 2018

(Thursday)

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, | H LING | L | TOTAL | CLASS | CLASS | RPT TOTAL SANTEGE |
|---|--------|---------------------|----------------------------|-------|---|--|
| MILEI 138KV 3 SUB 1WILEI 9 25KV CKT CB-7754 BREAKER 7754 | 22:00 | | | | | CIRCUIT BREA SCHEDULED O REPLACE 25KV RELATED TO E PTM: AHMOOK SIGN: MIYAKE, |
| BREAKER CB7754 | | 04:00 (07/17/2018 | 04:00 6 HR 0 MIN | | FROM CB7754 IWILEI SUBSTATION TO ALL TERMINATIONS CUST: 174 | |
| IWILEI 138KV 4 SUB IWILEI 13 25KV CKT CB-7759 BREAKER 7759 | 22:00 | | | D-1 | KING, MAUNAKEA ST, NUUANU AVE, SECTIONS OF NIMITZ HWY | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON IWILEI 13 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE 25KV CABLE SPLICES E#260399. RELATED TO E#260398 IR#1748 REQ#2149. PTM: DELACRUZ, KEALII; PITT, ANTHONY; WON, BRONSON; KAPOI, KALEI |
| BREAKER CB7759 | | 04:00 07/17/2018 | 04:00 6 HR 0 MIN 7/2018 | | FROM CB7759 IWILEI SUB TO ALL TERMINATIONS CUST: 707 | |

Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.01

Date: July 16, 2018

(Monday)

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| TIME OUT TIME IN TIME THE AREA. DISTRICT OR SUBSTATION AFFECTED NBR | | | | | | | | |
|--|--|-------|---------------------|-------------|-------|--|-----|---|
| 11ME OUT 11ME IN | SUBSTATION CKT | | | | CLASS | | RPT | |
| 22:04 PROM CB7706 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 335 CUST: 335 CUST: 335 CUST: 335 CUST: 336 CUST: 346 CUST | EWALO T3 SUB EWALO 5 5KV CKT CB-7706 REAKER 7706 | 22:04 | | | | | | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 5 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260487 REQ#2169. R#1759 REQ#2170, IR#1760 REQ#2171. PTM: AHMOOK SANG, NATE SIGN: MIYAKE, LANCE |
| 22:04 | REAKER CB7706 | | | 6 HR 35 MIN | | FROM CB7706 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 335 | | |
| 22:04 PEOM CB7707 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 18 CUST: 18 HI CONVENTION CENTER, VICTORIA WARD CTRS 1759 CUST: 48 CU | EWALO T3 SUB EWALO 6 5KV CKT CB-7707 REAKER 7707 | 22:04 | | | | | | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 6 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260501 REQ#2169. RELATED TO IR#1757 REQ#2168, IR#1759 REQ#2170, IR#1760 REQ#2171. PTM: DELACRUZ, KEALII SIGN: MIYAKE, LANCE |
| 22:04 D-1 HI CONVENTION CENTER, VICTORIA WARD CTRS 1759 9 07/18/2018 FROM CB8329 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 83 | REAKER CB7707 | | 04:39 07/18/2018 | 6 HR 35 MIN | | FROM CB7707 KEWALO SUBSTATION TO ALL TERMINATIONS | | |
| 04:39 6 HR 35 MIN 07/18/2018 | AMOKU T2 25KV UB AMOKU 9 5KV CKT CB-8329 REAKER 8329 | 22:04 | | | | | | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KAMOKU 9 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260499 REQ#2170. RELATED TO IR#1757 REQ#2168, IR#1758 REQ#2169, IR#1760 REQ#2171. PTM: MOUNTHONGDY, PAT SIGN: MIYAKE, LANCE |
| | REAKER CB8329 | | | | . = | FROM CB8329 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 83 | | |

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.01

Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Date: July 17, 2018

(Tuesday)

(Tuesday)

Date: July 17, 2018

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, SWITCH NO | NI HMIT | N H H | TOTAL | CLASS -TYPE | CLASS -TYPE AREA DISTRICT OR SHIRSTATION AFFECTED | RPT NBR EXPLANATION |
|--|---------|---------------------|-----------------------------|----------------|---|---|
| KAMOKU T2 25KV SUB KAMOKU 10 25KV CKT CB-8330 BREAKER 8330 | 22:04 | | | <u>-</u> | | CIRCUIT BREA SCHEDULED O TO REPLACE A TO REPLACE U RELATED TO II REQ#2169, IR# PTM: ROSALES |
| BREAKER CB8330 | | 04:44 07/18/2018 | 04:44 6 HR 40 MIN 3/2018 | | FROM CB8330 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 567 | |

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.01

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, SWITCH NO | TIME OUT | TIME | TOTAL | CLASS -TYPE | AREA. DISTRICT OR SUBSTATION AFFECTED | RPT NBR EXPLANATION | NO |
|---|----------|---------------------|-------------|----------------|---|--|--|
| KEWALO T3 SUB KEWALO 5 25KV CKT CB-7706 BREAKER 7706 | 22:08 | | | 7 | SECTIONS OF ALA MOANA BLVD, CONVENTION CTR, ALA MOANA S.C. AND LATERALS | 1766 CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 5 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260590 REQ#2179. RELATED TO IR#1767 REQ#2180, IR#1768 REQ#2181, IR#1769 REQ#2182. PTM: AHMOOK SANG, NATE SIGN: MIYAKE, LANCE | ENED DUE TO A EWALO 5 25KV CKT. AL/AL CONNECTOR. #260590 REG#2179. 2180, IR#1768 |
| BREAKER CB7706 | | 03:48 07/19/2018 | 5 HR 40 MIN | | FROM CB7706 KEWALO SUB TO ALL TERMINATIONS CUST: 336 | | |
| KAMOKU T2 25KV SUB KAMOKU 9 25KV CKT CB-8329 BREAKER 8329 | 22:08 | | | D-1 | HI CONVENTION CENTER, VICTORIA WARD CTRS | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KAMOKU 9 25KV CKT TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260589 REQ#2181. RELATED TO IR#1769 REQ#2179, IR#1767 REQ#2180, IR#1769 REQ#2182. PTM: KAPOI, KALEI SIGN: MIYAKE, LANCE | ENED DUE TO A AMOKU 9 25KV CKT AL/AL CONNECTOR. #260589 REQ#2181. 2179, IR#1767 82. |
| BREAKER CB8329 | | 03:48 07/19/2018 | 5 HR 40 MIN | | FROM CB8329 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 83 | | |
| KEWALO T3 SUB KEWALO 6 25KV CKT CB-7707 BREAKER 7707 | 22:09 | | | 7-0 | SECTIONS OF KEEAUMOKU ST, KAPIOLANI BLVD, AND WAIMANU ST | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 6 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260601 REQ#2180. RELATED TO IR#1768 REQ#2179, IR#1768 REQ#2181, IR#1769 REQ#2182. PTM: DELACRUZ, KEALII SIGN: MIYAKE, LANCE | EWED DUE TO A EWALO 6 25KV CKT. AL/AL CONNECTOR. :#260601 REQ#2180. 2179, IR#1768 82. |
| BREAKER CB7707 | | 03:48 | 5 HR 39 MIN | | FROM CB7707 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 18 | | |

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.01

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

(Wednesday) Date: July 18, 2018

(Wednesday)

Date: July 18, 2018

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, SWITCH NO | TIME OUT TIME IN | TIME IN | TOTAL TIME | CLASS -TYPE | CLASS -TYPE AREA, DISTRICT OR SUBSTATION AFFECTED NBR | RPT NBR | EXPLANATION |
|--|------------------|---------|-----------------------------|----------------|---|------------|--|
| KAMOKU T2 25KV SUB KAMOKU 10 25KV CKT CB-8330 BREAKER 8330 | 22:09 | | | P-1 | D-1 ALA MOANA SC, SECTIONS OF KEEAUMOKU ST | 1769 | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KAMOKU 10 25KV CKT TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260601 REQ#2182. RELATED TO IR#1768 REQ#2181. PTM: MOUNTHONGDY, PAT SIGN: MIYAKE, LANCE |
| BREAKER CB8330 | | 03:49 | 03:49 5 HR 40 MIN 9/2018 | | FROM CB8330 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 567 | | |

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.01

(Thursday)

Date: July 19, 2018

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, SWITCH NO | TIME OUT TIME IN | TIME IN | TOTAL | CLASS -TYPE | CLASS -TYPE AREA, DISTRICT OR SUBSTATION AFFECTED N | RPT NBR EXPLANATION |
|--|------------------|---------|-----------------------------|----------------|--|--|
| KAMOKU T2 25KV SUB KAMOKU 10 25KV CKT CB-8330 BREAKER 8330 | 22:00 | | | <u>-</u> | | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KAMOKU 10 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260678 REQ#2197. RELATED TO IR#1774 REQ#2196. PTM: PITT, ANTHONY SIGN: MIYAKE, LANCE |
| BREAKER CB8330 | | 03:29 (| 03:29 5 HR 29 MIN 0/2018 | | FROM CB8330 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 567 | |
| KEWALO T3 SUB KEWALO 6 25KV CKT CB-7707 BREAKER 7707 | 22:00 | | | D-1 | SECTIONS OF KEEAUMOKU ST, KAPIOLANI BLVD, AND WAIMANU ST | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 6 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#?? REQ#2196. RELATED TO IR#1773 REQ#2197. PTM: ROSALES, RAY SIGN: MIYAKE, LANCE |
| BREAKER CB7707 | | 03:23 (| 03:23 5 HR 23 MIN 0/2018 | | FROM CB7707 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 18 | |

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Ran 02/06/2019 14.16.01

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, | | | TOTAL | CLASS | | RPT | |
|---|------------------|---------------------|-----------------------------|-------|--|---|---|
| SWITCH NO | TIME OUT TIME IN | TIME IN | TIME | -TYPE | AREA, DISTRICT OR SUBSTATION AFFECTED | NBR EXP | EXPLANATION |
| KEWALO T3 SUB KEWALO 5 25KV CKT CB-7706 BREAKER 7706 | 22:03 | | | D-1 | SECTIONS OF ALA MOANA BLVD, CONVENTION CTR, ALA MOANA S.C. AND LATERALS | CIRCUIT BREAKER WAS OPENEI SCHEDULED OUTAGE BETWEEN SUBSTATION TO ALL TERMINATI REPLACE A DEFECTIVE AL/AL CON RELACED 25KV SPLICES E#280 RELATED TO IR#1806 REQ#2206. PTM: PITT, ANTHONY: AHMOOK SIGN: MOUNTHONGDY, PAT; CHING, TH | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE BETWEEN KEWALO SUBSTATION TO ALL TERMINATIONS TO REPLACE A DEFECTIVE AL/AL CONNECTOR. UG REPLACED 25KV SPLICES E#260897 REQ#2205. RELATED TO IR#1806 REQ#2206. PTM: PITT, ANTHONY; AHMOOK SANG, NATE; MOUNTHONGDY, PAT; CHING, THOMAS SIGN. MANZOKU, KEITH |
| BREAKER CB7706 | | 04:02 07/24/2018 | 04:02 5 HR 59 MIN 4/2018 | | FROM CB7706 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 335 | | |
| KAMOKU T2 25KV SUB KAMOKU 9 25KV CKT CB-8329 BREAKER 8329 | 22:03 | | | D-1 | HI CONVENTION CENTER, VICTORIA WARD CTRS | CIRCUIT BREAKER WAS OPENEI SCHEDULED OUTAGE BETWEEN SUBSTATION TO ALL TERMINATI REPLACE A DEFECTIVE AL/AL CORPLACE OF SENS SPLICES E#280 RELATED TO IR#1805 REQ#2205. PTM: PITT, ANTHONY; AHMOOK MOUNTHONGDY, PAT; CHING, TH SIGN: MANZOKU, KEITH | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE BETWEEN KAMOKU SUBSTATION TO ALL TERMINATIONS TO REPLACE A DEFECTIVE AL/AL CONNECTOR. UG REPLACED 25KV SPLICES E#260897 REQ#2206. RELATED TO IR#1805 REQ#2205. PTM: PITT, ANTHONY; AHMOOK SANG, NATE; MOUNTHONGDY, PAT; CHING, THOMAS SIGN: MANZOKU, KEITH |
| BREAKER CB-8329 | | 04:02 07/24/2018 | 5 HR 59 MIN | | FROM CB8329 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 83 | | |

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.02

Date: July 23, 2018

(Monday)

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, | | | TOTAL | CLASS | RPT | F |
|---|-----------------|---------------------|-----------------------------|-------|--|--|
| SWITCH NO | TIME OUT | TIME IN | TIME | -TYPE | AREA, DISTRICT OR SUBSTATION AFFECTED NBR | R EXPLANATION |
| KAMOKU T2 25KV SUB KAMOKU 9 25KV CKT CB-8329 BREAKER 8329 | 22:04 | | | -d | HI CONVENTION CENTER, VICTORIA WARD CTRS 1822 | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE BETWEEN KAMOKU SUBSTATION TO ALL TERMINATIONS. UG REPLACED SPLICES REQ#2208 E#261016. RELATED TO IR#1821 REQ#2207. PTM: MAKAIAU, DAROL; KATADA, RANDY; RABE, JENSEN; KAPOI, KALEI; OKAGAWA, JON; MOUNTHONGDY, PAT; CHING, THOMAS SIGN: MANZOKU, KEITH |
| BREAKER CB-8329 | | 03:34 07/25/2018 | 03:34 5 HR 30 MIN 5/2018 | | FROM CB8329 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 83 | |
| KEWALO T3 SUB KEWALO 5 25KV CKT CB-7706 BREAKER 7706 | 22:05 | | | D-1 | SECTIONS OF ALA MOANA BLVD, CONVENTION CTR, ALA MOANA S.C. AND LATERALS CTR, ALA MOANA S.C. AND LATERALS | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE BETWEEN KEWALO SUBSTATION TO ALL TERMINATIONS. UG REPLACED SPLICES ON REQ#2207 E#261016. RELATED TO IR#1822 REQ#2208. PTM: MAKAIAU, DAROL; KATADA, RANDY; RABE, JENSEN; OKAGAWA, JON; MOUNTHONGDY, PAT; CHING, THOMAS SIGN: MANZOKU, KEITH |
| BREAKER CB-7706 | | 03:37 07/25/2018 | 5 HR 32 MIN | | FROM CB7706 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 335 | |

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.02

Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Date: July 24, 2018

(Tuesday)

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, | | | | CLASS | | RPT | | |
|---|------------------|---------|-------------------------|-------|--|------|---|--|
| SWITCH NO | TIME OUT TIME IN | TIME IN | TIME | -TYPE | -TYPE AREA, DISTRICT OR SUBSTATION AFFECTED | NBR | EXPLANATION | |
| KEWALO T3 SUB KEWALO 7 25KV CKT CB-7708 BREAKER 7708 | 22:01 | | | D-1 | FROM CB7708 KEWALO SUBSTATION TO ALL TERMINATIONS | 1830 | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 7 25KV CKT TO REPLACE A DEFECTIVE AL/AL CONNECTOR. UG REPLACED SPLICES E#261078 PTM: KAPOI, KALEI; YAMANE, ROSS SIGN: MANZOKU, KEITH | |
| SWITCH SW V10397 | | 04:10 | 04:10 6 HR 9 MIN 6/2018 | | FROM CB7708 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 20 | | | |

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Date: July 25, 2018

(Wednesday)

Ran 02/06/2019 14.16.02

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

HAWAIIAN ELECTRIC COMPANY, INC. Call Center Performance (Service Level) Results 2018

Call Center Performance (Service Level) Excludes Blocked Calls

| Month | Total Calls Accepted * | Calls Answered Within 30 Seconds | Service Level | Weighted Total | Weighted Service Level |
|--------|---------------------------|---|---------------|-------------------|---------------------------|
| Jan-18 | 27,380 | 24,550 | 89.66% | 8.37% | 7.51% |
| Feb-18 | 22,944 | 20,577 | 89.68% | 7.02% | 6.29% |
| Mar-18 | 23,827 | 21,393 | 89.79% | 7.29% | 6.54% |
| Apr-18 | 26,277 | 23,095 | 87.89% | 8.04% | 7.06% |
| May-18 | 27,042 | 24,152 | 89.31% | 8.27% | 7.39% |
| Jun-18 | 27,941 | 22,446 | 80.33% | 8.55% | 6.86% |
| Jul-18 | 30,579 | 23,648 | 77.33% | 9.35% | 7.23% |
| Aug-18 | 31,082 | 23,749 | 76.41% | 9.51% | 7.26% |
| Sep-18 | 27,644 | 22,345 | 80.83% | 8.45% | 6.83% |
| Oct-18 | 30,957 | 25,586 | 82.65% | 9.47% | 7.82% |
| Nov-18 | 26,496 | 21,556 | 81.36% | 8.10% | 6.59% |
| Dec-18 | 24,817 | 21,460 | 86.47% | 7.59% | 6.56% |

Total 83.97%

To HECO-WP-M-001

Source: Generated from Genesys Interactive Insights system.

^{*} All customer calls handled by a Customer Service Representative (including abandoned calls)

HAWAIIAN ELECTRIC COMPANY, INC. Phase 1 Renewable Energy RFP Performance Incentive Mechanism 2018

| Line | Awarded Projects | Reference | BAFO Levelized Price (\$/MWh) | Net Energy Potential (MWh) | | PIM Calculation | (2 | Calculation 20% utility share) |
|------|---|---------------------------------------|-------------------------------------|----------------------------------|-----|--------------------|----|--------------------------------------|
| | | | a | b | c = | (x or y-a)*b | d | = c * 20% |
| 1 | Ho'ohana Solar 1 (O-2) (with battery storage) | Docket No. 2018-0431 D&O No. 36236 | 99.78 Note 3 | 114,481 | \$ | 1,742,401 | \$ | 348,480 |
| 2 | Mililani Solar I (O-17) (with battery storage) | Docket No. 2018-0434 D&O No. 36232 | 88.16 | 93,121 | \$ | 2,499,368 | \$ | 499,874 |
| 3 | Waiawa Solar (O-20) (with battery storage) | Docket No. 2018-0435 D&O No. 36231 | 95.93 | 87,927 | \$ | 1,676,768 | \$ | 335,354 |
| 4 | | Total Fina | l Variable Request | s for Proposals | \$ | 5,918,536 | \$ | 1,183,707 |
| 5 | | | 5 | 50% Year 1 | | Note 2 | \$ | 591,854 To Sch M |

| | Note I | | |
|---------------------|--------|--------|---|
| PIM Benchmark | ¢/kWh | \$/MWh | |
| Energy Only | 9.5 | 95.00 | X |
| Paired with Storage | 11.5 | 115.00 | y |

Note 1 Per Order No. 35405, Docket No. 2017-0352, filed April 6, 2018, PIM benchmarks per pages 11 and 12.

Language from Order 35405:

The Companies share would be 20% of the estimated first-year savings compared to the applicable benchmark up to a cap of \$3,500,000.

The estimated first-year savings will be calculated by multiplying the forecasted first-year energy production (in kWh) of the project by the difference between the applicable benchmark price and the equivalent price (in cents per kWh).

The equivalent PPA price will be established by the levelized cost of the project computed by the Companies during the evaluation and selection process in the Phase I procurement effort.

Similarly, the forecasted first-year energy production will be determined by using the energy production estimated in the evaluation and selection process.

Per Order No. 35664, Docket No. 2017-0352, filed September 6, 2018:

The Commission ruled on the treatement of the Additional PPAs proposed in the Companies' June 20, 2018 Letter indicating that the additional PIM for these PPAs will function in a similar manner to the original PIM. The Companies shall receive a performance incentive equialent to 20% of the estimated first-year savings compared to the applicable benchmark, up to a cap of \$3,000,000, for the Additional PPAs filed with the commission by December 31, 2018. For any Additional PPAs submitted after December 31, 2018, until March 31, 2019, the Companies' share of the savings pursuant to the PIM will be reduced in accordance with the proposal in the Companies' June 20, 2018 Letter.

Note 2 Per Decision and Order No. 35405, Docket No. 2017-0352, filed April 6, 2018, Timing of Incentive Award, p 14

First Allocation:

The first allocation of the PIM will be shortly after the approval of the PPAs. At that time, the commission will allocate the first 50% of the total PIM to the Companies, based on the equivalent PPA prices and the forecasted first-year energy production.

The commission intends that the applicable performance incentive would be awarded to the Companies through their respective Revenue Balancing Account Provision tariffs.

Second Allocation:

Following the first year of commercial operations for each project, the Companies shall submit a report of the actual energy utilized for each of the PPAs approved by the Commission. The Commission will provide the Companies with a portion, or all, of the remaining 50% of the PIM, dependent upon the actual amount of energy output utilized.

CIAC Treatment
Resulting from FERC Adoption

Adoption of FERC USOA required a change in presentation change to Contributions in Aid of Construction (CIAC)

Prior to October 2018, and in establishing rates in previous test year rate cases, the Company's presentation of contributions in aid of construction ("CIAC") followed the guidelines of the National Associate of Regulatory Utility Commissioners Uniform System of Accounts (NARUC USOA). Under the NARUC reporting system, CIAC is reported under an exclusive account, account 271, which includes donations or contributions in cash, services or property from states, municipalities, or other governmental agencies, individuals and others for construction purposes. All CIAC was incorporated as a deduction in the calculation of rate base in part because the Companies' systems did not facilitate on-going reporting of CIAC related to plant in service separate from CIAC related to construction work in progress ("CWIP").

The Commission approved the Companies' request to change to Federal Energy Regulatory Commission Uniform System of Accounts (FERC USOA), beginning with the implementation of the Companies' new ERP/EAM, in Decision and Order No. 31757, issued December 19, 2013 in Docket No. 2013-0007.

Beginning in October 2018 with the transition to FERC, the net balance of CIAC in account 271 less the CIAC amortization to be recorded for October to December 2018, was credited against the account balances charged with the cost of construction, i.e., gross plant in service and CWIP, resulting in the account becoming zero (i.e. "0") at December 31, 2018.

Ratemaking treatment for CIAC

The Company's ratemaking treatment of contributions in aid of construction is summarized below:

- CIAC associated with Plant in Service When a utility capital project is placed into service, the plant in service net of the associated CIAC is included as net cost of plant in service in rate base. The plant in service net of the CIAC is included as part of the basis for the depreciation accrual the year after it is placed into service (i.e. January 1 of the year after it is placed into service).
- CIAC associated with CWIP For book purposes, CIAC that is received while projects
 are still under construction (i.e. in CWIP) will offset the costs incurred and is presented
 net in CWIP. The CWIP net of the associated CIAC is subject to the AFUDC accrual if
 there is a net CWIP balance. In the next rate case, the Company will request CIAC
 associated with CWIP be excluded from the rate base calculation since CWIP net of

CIAC earns AFUDC. CIAC associated with CWIP is however, included in rate base in this RAM calculation for consistency with the 2017 Test Year treatment. See further discussion of Company's requested treatment of CIAC associated with CWIP below.

Developer Advances - Cash contributions received in advance of construction of a utility capital project that are temporarily not classified as CIAC because the funds received are in excess of the specific project expenditures. The balance of developer advances is presented as funds from non-investors, included in its own exclusive account, and deducted in the calculation of rate base. As project costs are incurred for a utility capital project, an equal portion of developer advances associated with the project will be reclassified as CIAC and credit the accounts charged with the cost of construction. Developer Advances were included as a part of CIAC as a reduction to rate base in the 2017 Test Year.

Treatment of CIAC within the 2019 Annual Decoupling Filing

For the 2019 Decoupling Filing, the Company treated CIAC consistently with prior filings resulting in no impact to rate base.

Schedule D1, Determination of Rate Base RAM Adjustment – Change in Rate Base

Plant in Service - There is no change in rate base for plant in service and CIAC associated with plant in service. Under NARUC, in rate base, plant in service was the gross cost of plant (net of accumulated depreciation), and CIAC was a separate reduction to rate base. Under FERC, the plant in service amounts are net of (i.e., already reduced by) CIAC, and presented net of accumulated depreciation in the calculation of rate base. There is no separate CIAC line item reducing rate base because it is already net in utility plant. Therefore, there is no net rate base impact. The difference between NARUC and FERC for plant in service is a matter of where the costs are classified in rate base, and not a matter of inclusion or exclusion of costs in rate base.

CIAC associated with CWIP - There is no change in rate base for CIAC associated with CWIP. Previously, presentation of CIAC aligned with NARUC and all CIAC, including amounts associated with projects in CWIP, were included as a reduction to rate base under account 271. The 2019 estimated balance continues the treatment of including the CIAC in CWIP to be consistent with the recorded balance at 2018 year-end because all 2019 estimated CIAC additions have been included at Schedule D2 and included as part of net cost of plant at Schedule D1. Although the treatment described above was used in the 2019 annual decoupling filing, see Company's requested treatment to exclude CIAC associated with CWIP from rate base in future filings in the discussion below.

Developer Advances - With the transition to FERC, CIAC is credited when received against the related project costs in CWIP. To the extent funds are not yet expended for a project in

CWIP, the CIAC will be classified as developer advances and deducted in the calculation of rate base at Schedule D1. The recorded balance at 2018 year-end is not adjusted for 2019 activity as it is incorporated in Schedule D2.

Schedule D2, Determination of Baseline Capital Projects Additions

Schedule D2 was revised to incorporate the baseline and major project CIAC (including Developer Advances) for 2014 to 2017 into the baseline average calculation of net plant in service, consistent with the presentation of rate base. The 2018 CIAC additions calculated at HECO-WP-D2-003 includes additions to CIAC from all sources, i.e. Plant, CWIP and Developer Advances, which were used in the 5-year baseline calculation. As a result, the estimated 2019 additions to CIAC in CWIP and Developer Advances balances at Schedule D1 for the Change in Rate Base are not required as they are already included in the net cost of plant line item.

Schedule E, Determination of Depreciation & Amortization RAM Adjustment

FERC Uniform System of Accounts Electric Plant Instructions, 2. Electric Plant To Be Recorded at Cost. D. states, "The electric plant accounts shall not include the cost or other value of electric plant contributed to the company." Therefore, the Recorded Depreciable/ Amortizable Balances at December 31, 2018 in Schedule E represents plant in service net of CIAC which is used as the basis to estimate the 2019 annual accrual amount. In calculating the 2019 RAM Depreciation and Amortization, Depreciation and Amortization in Current Revenues also includes CIAC amortization approved in the 2017 Test Year.

Schedule F & F1, Determination of Change in Deferred Income Taxes & Tax Depreciation

The methodology for computing the deferred taxes related to RAM year tax depreciation was not changed within the 2019 annual decoupling filing. Gross plant additions are used as the basis for calculating tax depreciation. However, see the CIAC impact to ADIT section below for the Company's preferred treatment considering the effects of netting CIAC against plant in service.

Schedule G-series, CIAC

Schedule G, G1 and G2 were removed from the Decoupling filings and instead incorporated into either Plant in Service, CIAC in CWIP or Developer Advances. The December 31, 2018 balances for CIAC associated with CWIP and Developer Advances were extracted from PowerPlan. Additionally, as noted above, the calculation of the 5-year baseline average of CIAC and amortization was incorporated within Schedule D2 and Schedule E, respectively.

The Company will continue to include CIAC associated with CWIP and Developer Advances as a reduction to rate base until the FERC presentation of rate base is approved in the Company's next rate case.

Company's requested CIAC treatment

The Company requests to reflect the following changes to the treatment of CIAC within the annual decoupling filings.

CIAC associated with CWIP

In Mr. Franklin's T-12 direct testimony in Hawaii Electric Light's 2019 Test Year rate case, the Company proposes to remove CIAC associated with CWIP from the calculation of rate base due to the fact that CWIP net of associated CIAC earns AFUDC, therefore the CWIP and its associated CIAC should be excluded from rate base.

Excluding CWIP net of CIAC, to better align the source of funds with its use (i.e. the CIAC funds received were applied against the costs incurred for the project) and is therefore properly excluded from the calculation of rate base. In addition, and as mentioned previously, any material CIAC received in advance of construction expenditures will continue to be deductions in the calculation of rate base as Developer Advances.

CIAC impact to ADIT

ADIT associated with CIAC in CWIP should be divided between nontaxable and taxable CIAC. Nontaxable CIAC (primarily interconnection CIAC) is treated as a reduction in basis for both book and tax purposes. On the other hand, although taxable CIAC is also a reduction in basis for book purposes, for tax purposes, the receipt of taxable CIAC creates tax basis by way of the recognition of taxable income and reverses by way of tax depreciation.

Nontaxable CIAC does not create ADIT since there is no book tax difference. Consequently, the regulatory netting of nontaxable CIAC against the plant assets should not create any issue with respect to the ADIT beginning balance for the rate base RAM calculation

Taxable CIAC generates a Deferred Tax Asset (DTA) as it is received and recorded into CWIP under the new FERC accounting. Prior NARUC accounting treatment with account 271 created DTA as CIAC was booked to 271, which is equivalent to what is now booked to CWIP. The origination and timing of the DTA under the FERC method will be equivalent to the NARUC method. However, under the old method, the DTA was immediately recognized as part of rate base, consistent with the treatment of the account 271 inclusion. However, under the FERC method, the generation of the DTA must be inventoried and tracked to match up with the amount of CIAC in CWIP and the amounts closed to plant in service. This tracking is necessary to ensure that the amount of DTA related to CWIP is excluded from rate base. Once CWIP costs are closed to plant, the related DTA will be included in rate base and will begin reversal through tax depreciation taken on the CIAC tax basis.

FERC accounting imbeds the book treatment of CIAC within CWIP and the ultimate plant and related depreciation. The separation will disappear and the Company asserts that the ADIT

effects will be the same with respect to the beginning balance of ADIT for the annual decoupling filing except to the extent CIAC is still in CWIP. This issue will be addressed along with the rate base treatment of CIAC associated with CWIP as mentioned above.

FERC accounting nets CIAC against Plant in Service for purposes of computing baseline and major plant additions. For RAM year tax depreciation and the related ADIT calculated for the change in RAM year ADIT, adopting the net plant additions as the RAM year tax additions will be a change that will result in a smaller amount of tax depreciation and ADIT "change" since the Company previously has assumed the gross additions to be the RAM year tax depreciable base. The Company asserts this is reasonable for the following reasons:

- 1) Under the old method, to the extent nontaxable CIAC was included in the RAM year numbers (through major projects or baseline projects), tax depreciable basis was overstated since there is no tax basis for assets funded by nontaxable CIAC.
- 2) With respect to taxable CIAC, the funded assets do have depreciable tax basis and it is accounted for in the RAM year additions tax depreciation. However, the receipt of taxable CIAC generates taxable income and deferred tax assets that increase rate base. The effect of this DTA from taxable CIAC was never recognized in the RAM tariff, which resulted in an overstatement of RAM year ADIT change, as it related to the projected plant additions.

For purposes of the 2019 RAM calculation, ADIT has been calculated on gross plant additions, consistent with the 2017 Test Year treatment and prior decoupling filings, however the Company is requesting treatment of CIAC in deferred tax to follow FERC accounting.

Summary

In summary, Hawaiian Electric prepared the 2019 annual decoupling filings in accordance with the historical treatment of CIAC. Historically, due to system constraints, CIAC records were not maintained with matching of the separate components (plant in service, CWIP, developer advances). As a result, the entire amount of CIAC was treated as a reduction to rate base and the Return on Investment was understated. As stated in Mr. Franklin's T-12 direct testimony in Hawaii Electric Light's 2019 Test Year rate case, the Companies propose to exclude the CIAC associated with CWIP in its calculation of rate base in the rate base RAM filings. Should the Commission approve Hawaii Electric Light's proposal, Hawaiian Electric will implement this change in the annual decoupling filing in the year following the Commission's approval.

HAWAIIAN ELECTRIC SCENARIO 2 WEST LOCH PV EXCLUDED FROM RAM REVENUE ADJUSTMENT 25kV EXCLUDED FROM 2018 SAIDI AND

SAIFI PIM CALCULATIONS

HAWAIIAN ELECTRIC ATTACHMENT 1

RATE SCHEDULES (continued)

| Sheet | Schedule | Date Effective | Character of Service |
|-------|----------|-------------------|--|
| 92 | "RBA" | September 1, 2018 | Revenue Balancing Account Provision |
| 92A | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 92A.1 | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 92B | "RBA" | February 16, 2018 | Revenue Balancing Account Provision |
| 92C | "RBA" | January 1, 2018 | Revenue Balancing Account Provision |
| 92D | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 92E | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 92F | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 93 | "RAM" | June 1, 2013 | Rate Adjustment Mechanism Provision |
| 93A | "RAM" | June 1, 2013 | Rate Adjustment Mechanism Provision |
| 93B | "RAM" | June 8, 2015 | Rate Adjustment Mechanism Provision |
| 93C | "RAM" | June 8, 2015 | Rate Adjustment Mechanism Provision |
| 93D | "RAM" | June 1, 2017 | Rate Adjustment Mechanism Provision |
| 93E | "RAM" | June 8, 2015 | Rate Adjustment Mechanism Provision |
| 93F | "RAM" | June 1, 2013 | Rate Adjustment Mechanism Provision |
| 93G | "RAM" | June 1, 2018 | Rate Adjustment Mechanism Provision |
| 93Н | "RAM" | June 1, 2018 | Rate Adjustment Mechanism Provision |
| 931 | "RAM" | June 1, 2018 | Rate Adjustment Mechanism Provision |
| 94 | "PPAC" | May 1, 2019 | Purchased Power Adjustment Clause |
| 94A | "PPAC" | May 1, 2019 | Purchased Power Adjustment Clause |
| 94B | "PPAC" | May 1, 2019 | Purchased Power Adjustment Clause |

HAWAIIAN ELECTRIC COMPANY, INC.

RATE SCHEDULES (continued)

| Sheet | Schedule | Date Effective | Character of Service |
|-------|----------|-------------------|--|
| 95 | EV-F | January 1, 2019 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 95A | EV-F | January 1, 2019 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 95B | EV-F | December 12, 2017 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 96 | EV-U | December 12, 2017 | Commercial Public Electric Vehicle Charging Service Pilot |
| 96A | EV-U | December 12, 2017 | Commercial Public Electric Vehicle Charging Service Pilot |
| 97 | TOU-RI | October 18, 2018 | Residential Interim Time- of-Use Service |
| 97A | TOU-RI | January 1, 2019 | Residential Interim Time- of-Use Service |
| 97B | TOU-RI | October 18, 2018 | Residential Interim Time- of-Use Service |
| 97C | TOU-RI | January 1, 2019 | Residential Interim Time- of-Use Service |
| 98 | "PIM" | January 1, 2018 | Performance Incentive Mechanism Provision |
| 98A | "PIM" | January 1, 2018 | Performance Incentive Mechanism Provision |
| 98B | "PIM" | September 1, 2018 | Performance Incentive Mechanism Provision |
| 98C | "PIM" | September 1, 2018 | Performance Incentive Mechanism Provision |
| 98D | "PIM" | June 1, 2019 | Performance Incentive Mechanism Provision |
| 98E | "PIM" | September 1, 2018 | Performance Incentive |
| 99 | TOU-P | January 1, 2019 | Mechanism Provision Large Commercial Time-Of- |
| 99A | TOU-P | January 1, 2019 | Use Service Large Commercial Time-Of- |
| 99B | TOU-P | January 1, 2019 | Use Service Large Commercial Time-Of- |
| 99C | TOU-P | January 1, 2019 | Use Service Large Commercial Time-Of- Use Service |

HAWAIIAN ELECTRIC COMPANY, INC.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

Supplement To:

| Schedule | R - | Residential Service |
|----------|---------|---|
| Schedule | G – | General Service - Non-Demand |
| Schedule | J – | General Service - Demand |
| Schedule | DS - | Large Power Directly Served Service |
| Schedule | Р – | Large Power Service |
| Schedule | F - | Public Street Lighting, Highway |
| | | Lighting and Park and Playground |
| | | Floodlighting |
| Schedule | U – | Time-of-Use Service |
| Schedule | TOU-R - | Residential Time-of-Use Service |
| Schedule | TOU-G - | Small Commercial Time-of-Use Service |
| Schedule | TOU-J - | Commercial Time-of-Use Service |
| Schedule | TOU-P - | Large Commercial Time-of-Use Service |
| Schedule | SS - | Standby Service |
| Schedule | TOU EV- | Residential Time-of-Use Service with |
| | | Electric Vehicle Pilot |
| Schedule | EV-F - | Commercial Public Electric Vehicle |
| | | Charging Facility Service Pilot |
| Schedule | TOU-RI- | Residential Interim Time-of-Use Service |

All terms and provisions of the above listed rate schedules applicable except that the total base rate charges for each billing period shall be adjusted by the Revenue Balancing Account Rate Adjustments shown below:

A: PURPOSE:

The purpose of the Revenue Balancing Account ("RBA") is to record: 1) the difference between the Hawaiian Electric Company's target revenue and recorded adjusted revenue, and 2) monthly interest applied to the simple average of the beginning and ending month balances in the RBA. In addition, the recovery provision of this tariff provides for collection or return of the calendar year-end balance in the RBA and recovery or refund of the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits provided in the Rate Adjustment Mechanism ("RAM") Provision, and any revenue adjustment provided in accordance with the Performance Incentive Mechanism Provision, over the subsequent June $1^{\rm st}$ through May 31st period. Tracking of target revenue and recorded adjusted revenue commenced on the effective date of the tariff that implemented the Final Decision and Order in Hawaiian Electric's 2009 test year rate case, Docket No. 2008-0083, consistent with the Final Decision and Order in the Decoupling case, Docket No. 2008-0274.

HAWAIIAN ELECTRIC COMPANY, INC.

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018.

Transmittal Letter Dated July 23, 2018

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

B: TARGET REVENUE:

For the purpose of the RBA, the target revenue is the annual electric revenue approved by the Public Utilities Commission in the last issued Decision & Order in the Company's most recent test year general rate case, excluding revenue for fuel and purchased power expenses that are recovered either in base rates or in a purchased power adjustment clause; excluding revenue being separately tracked or recovered through any other surcharge or rate tracking mechanism; and excluding amounts for applicable revenue taxes;

Plus: Any effective RAM Revenue Adjustment calculated under the RAM provision for years subsequent to the most recent rate case test year for which the Commission has issued a Decision & Order; and any Performance Incentive Adjustment provided for in accordance with the Performance Incentive Mechanism Provision; and

Less: Any applicable Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits calculated under the RAM provision.

Adjusted by: Other adjustments, as applicable, in accordance with Commission's Order authorizing such adjustment. Other adjustments, if any, are shown in the table *Target Revenue Currently in Effect*, provided in section H.

The target revenue shall be revised to correct for any errors in the calculation of the RAM Revenue Adjustment, Performance Incentive Adjustment, recorded adjusted revenues or other RBA accounting determinations (collectively "target revenue determinations") for any previous period and for revisions to RAM Revenue Adjustments or Performance Incentive Adjustments as a result of subsequent Commission orders that change the basis of previously calculated RAM Revenue Adjustments and/or Performance Incentive Adjustments. corrections of errors in previously calculated target revenue determinations, the target revenue shall be adjusted as of the date that the correct determinations would have been reflected in target revenue. For changes in the RAM Revenue Adjustment and/or Performance Incentive Adjustments as a result of subsequently issued Commission orders, the target revenue shall be adjusted as of the effective date of changes that are implemented pursuant to the subsequently issued Commission order.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 28, 2019.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

The Commission and the Consumer Advocate will be notified of the target revenue revisions or corrections prior to implementation by the Company. There is no presumption that the target revenue changes are ultimately warranted or correct. In the annual RBA review transmittal ("RBA Review Transmittal") filed on or before March 31 of each year, the utility will have the burden to demonstrate that the interim changes for the previous calendar year are warranted and correctly applied. The Consumer Advocate will provide comments regarding the changes with its Statement of Position. The RBA balance and RBA Rate Adjustment for the following year will reflect any appropriate modifications to the change made by the utility in the prior year if necessary.

HAWAIIAN ELECTRIC COMPANY, INC.

REVISED SHEET NO. 92B Effective February 16, 2018

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

Monthly Allocation Factors for the Target Revenue are as follows:

| January | 8.19% |
|-----------|---------------------|
| February | 7.59% |
| March | 8.10% |
| April | 7.98% |
| May | 8.40% |
| June | 8.07% |
| July | 8.70% |
| August | 8.94% |
| September | 8.65% |
| October | 8.84% |
| November | 8.26% |
| December | <u>8.28</u> % |
| Total | $10\overline{0.00}$ |
| | |

These factors are based on the mWh sales forecast that is approved by the Commission in Hawaiian Electric's 2017 test year rate case and shall be updated in any subsequent test year rate case.

C: BALANCING ACCOUNT ENTRIES:

Entries to the RBA will be recorded monthly. A debit entry to the RBA will be made equal to the target revenue as defined in Section B. above, times the appropriate monthly allocation factor in the table above. A credit entry to the RBA will be made equal to the recorded adjusted revenue. The recorded adjusted revenue is defined to include the electric sales revenue from authorized base rates, plus revenue from any authorized interim rate increase, plus revenue from any RBA rate adjustment, but excluding revenue for fuel and purchased power expenses, IRP/DSM, any Commission Ordered one-time rate refunds or credits or other surcharges, and adjusted to remove amounts for applicable revenue taxes.

Interest will be recorded monthly to the RBA by multiplying the simple average of the beginning and ending month balance in the RBA times the Interest Rate divided by 12. The Interest Rate shall be the short term debt rate as established in deriving the consolidated cost of capital in the Company's last full rate case. The Interest Rate prior to March 1, 2014 shall be 6 percent.

D: RECOVERY OF BALANCING ACCOUNT AMOUNTS:

In its annual RBA Review Transmittal, the Company will file with the Commission a statement of the previous calendar year-end balance in the RBA and the RAM Revenue Adjustment for the current calendar year, along with supporting calculations.

HAWAIIAN ELECTRIC COMPANY, INC.

Docket No. 2016-0328; Order No. 35280, issued February 9, 2018. Transmittal Letter Dated February 12, 2018.

REVISED SHEET NO. 92C Effective January 1, 2018

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

Both an amortization of the previous calendar year-end balance in the RBA, adjusted for any Earnings Sharing Revenue Credits or Major Capital Projects Credits, Baseline Capital Projects Credits or corrections, any Performance Incentive Adjustment provided in accordance with the Performance Incentive Mechanism Provision and the RAM Revenue Adjustment will be recovered through a per-kWh RBA rate adjustment, over the 12 months from June 1 of the current calendar year to May 31 of the succeeding calendar year. The recovery through the RBA Rate Adjustment of a RAM Revenue Adjustment calculated for a calendar year that is also a rate case test year shall terminate on the effective date of tariff rates that implement a Commission approved base revenue level authorized in the Company's test year rate case.

Revisions to Target Revenue based on corrections for errors and subsequently issued Commission orders, described in Section B above, will not be reflected in the RBA Rate Adjustment until a succeeding June 1 to May 31 period, unless otherwise ordered or approved by the Commission.

On or before March 31 of each year, the Company shall file with the Commission, the Consumer Advocate, and each party to the Company's most recent rate case proceeding, an RBA Review Transmittal supporting the implementation of the RBA Provision, including RBA reconciliation, implementation of applicable components of the RAM Provision and Performance Incentive Mechanism Provision, determination and adjustments of target revenues, determination of the RBA Rate Adjustment; and documenting any errors, corrections and adjustments to Target Revenues in the preceding calendar year and prior to the transmittal date.

Complete, indexed workpapers and electronic files supporting the previous year-end balance in the RBA and target revenue determinations shall be provided to the Commission, the Consumer Advocate and all other parties to the Utility's most recent rate case proceeding ("Other Rate Case Parties"), if any, as part of the annual RBA Review Transmittal filing. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, Other Rate Case Parties, and other interested persons that may propose any adjustments necessary to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

REVISED SHEET NO. 92D Effective June 1, 2019

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

As described in Sections 6-61-61 and 6-61-111 of the Hawaii Administrative Rules, Title 6, Chapter 61, based upon the Company's filed schedules and in the absence of any protests submitted by the Consumer Advocate, Other Rate Case Parties, or other interested persons, not later than 15 days before June 1st, the RBA Rate Adjustment shall go into effect on June 1st, and the Commission shall confirm the commencement of the RBA Rate Adjustment in its monthly Tariff Order.

E: REVENUE BALANCING ACCOUNT RATE ADJUSTMENT:

The RBA Rate Adjustment is comprised of the calculated values from Section D above, adjusted to include amounts for applicable revenue taxes, and calculated based on the Company's forecast of mWh sales over the RBA Rate Adjustment recovery period.

The RBA Rate Adjustment shall remain unchanged during the recovery period unless further modification is required by order or approval of the Commission, except as specifically provided above.

RBA Rate Adjustment

All Rate Schedules 0.9580 ¢/kWh

F. NOTICE

Notice of the annual Revenue Balancing Account Rate Adjustment filing shall be provided to all affected customers of the Utility in accordance with the provisions of this section by publication in newspapers of general circulation within 14 days and by including notification with its billing statements within 60 days after the Company makes its annual RBA Review Transmittal filing pursuant to this tariff. The notice to customers shall include the following information:

- a) A description of the proposed revision of revenues, Earnings Sharing Credits, and Major or Baseline Capital Projects Credits;
- b) The effect on the rates applicable to each customer class and on the typical bill for residential customers; and
- c) The Company's address, telephone number and website where information concerning the proposed Revenue Balancing Account Rate Adjustment may be obtained.

G: COMMISSION'S AUTHORITY

The Commission may modify or suspend any or all parts of this Revenue Balancing Account Provision. Such suspension shall remain in place until removed by Commission Order.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter Dated May 28, 2019.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

H: TARGET REVENUE CURRENTLY IN EFFECT

Hawaiian Electric Company, Inc. Annual Target Revenue (\$000s)

| | <u>Description</u> | <u>Amount</u> |
|------------------|---|--|
| 1 2 3 | Electric Sales Revenue (Unadjusted) Tax Act Implementation Lag Electric Sales Revenue (Adjusted) | \$1,531,852 (\$2,143) \$1,529,709 |
| 4 5 6 7 | Less: Fuel Expense Purchase Power Expense Revenue Tax on Electric Sales Revenue Last Rate Order Target Revenues | (\$327,609) (\$466,211) (\$135,915) \$599,974 |
| 8 9 10 | Authorized RAM Revenues Revenue Tax Net RAM Adjustment | \$20,351 (\$1,808) \$18,543 |
| 11 12 13 | Authorized MPIR Revenues Revenue Tax Net MPIR Adjustment | \$19,811 (\$1,760) \$18,051 |
| 14 15 16 | Earnings Sharing Revenue Credits Revenue Tax Net Earnings Sharing Revenue Credits | \$0 \$0 \$0 |
| 17 18 19 | Performance Incentive Mechansim (PIM) Revenue Tax Net PIM Reward (Penalty) | \$54 (\$5) \$49 |
| 20 21 22 | 2017 Test Year Final D&O Refund Revenue Tax Net 2017 Test Year Final D&O Refund | (\$48) \$4 (\$44) |
| 23 24 25 | On-Bill Financing Pgm Implementation Costs Revenue Tax Net On-Bill Financing Adjustment | \$844 (\$75) \$769 |
| 26 | Effective Target Revenue | \$637,342 |

Notes:

Totals may not add, due to rounding.

Lines 1,4,5: Final Decision and Order No. 35545, issued June 22, 2018 in

Docket No. 2016-0328. Exhibit A.

Line 2: Hawaiian Electric March 2018 Settlement Tariff Sheets, Attachment 1,

Line 2. Filed March 16, 2018 in Docket No. 2016-0328.

Lines 6,9,12,15,18,21,24: Revenue Tax based on 8.885% statutory rates.

Lines 8,11,14,17,20,23,26: Transmittal Nos. 19-01, 19-02, 19-03 Consolidated (Decoupling)

Schedule B1 (Scenario 2A), filed May 28, 2019.

Change in Effective Target Revenue for MPIR is effective January 1, 2019.

See Order 35556, filed June 27, 2018 in Docket No. 2017-0213.

HAWAIIAN ELECTRIC COMPANY, INC.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

I: HISTORICAL REFERENCE

| Category | Effective Period | Effective Target Revenue (\$000) | Change in Target Revenue (\$000) | Source |
|---|---------------------------------|---|---|---|
| Annual Decoupling Filing | 6/1/2017 thru 2/15/2018 | \$604,302 | N/A (1/1/2018 Baseline) | Schedule B1 filed in Transmittal No. 17-02 on 3/31/2017. |
| 2017 Test Year Rate Case (Interim) | 2/16/2018 thru 4/12/2018 | \$637,077 | \$32,775 | Schedule B1 filed in Docket No. 2016-0328 on 1/19/2018. |
| 2017 Test Year Rate Case (Interim) | 4/13/2018 thru 5/31/2018 | \$599,960 | (37,117) | Schedule B1 filed in Docket No. 2016-0328 on 3/16/2018. |
| Annual Decoupling Filing | 6/1/2018 thru 6/30/2018 | \$612,574 | \$12,614 | Schedule B1 filed in Transmittal No. 18-01 on 3/29/2018. |
| MPIR (Schofield) | 7/1/2018 thru 9/30/2018 | \$618,587 | \$6,013 | Schedule B1 filed in Docket No. 2017-0213 on 7/18/2018. |
| MPIR (Schofield) | 10/1/2018 thru 12/31/2018 | \$620,374 | \$1,787 | Schedule B1 filed in Docket No. 2017-0213 on 12/21/2018. |
| MPIR (Schofield) | 1/1/2019 thru 5/31/2019 | \$630,624 | \$10,250 | Schedule B1 filed in Transmittal No. 19-01 on 2/7/2019. |
| Annual Decoupling Filing | 6/1/2019 (current) | \$637,342 | \$6,718 | Schedule B1 (Scenario 2A) filed in Transmittal No. 19-01 on 5/28/2019. |

PERFORMANCE INCENTIVE MECHANISM PROVISION

Introduction

This Performance Incentive Mechanism ("PIM") Provision provides for the determination of a PIM Financial Incentive for each approved PIM for each Evaluation Period, based on Measured Performance compared to an established Performance Target for each PIM, as specified below.

The sum of the PIM Financial Incentives determined for all PIMs for the Evaluation Period will be the Performance Incentive Adjustment, which will be applied as an adjustment to the effective Target Revenue and will be recovered from or credited to customers through the RBA Rate Adjustment, as defined by and in accordance with the terms of the Revenue Balancing Account ("RBA") Provision.

Annual PIM Provision Transmittal

On or before March 31 of the year following an Evaluation Period, the Company shall file with the Commission, the Consumer Advocate, and each party to the Company's most recent rate case proceeding, a transmittal documenting the Measured Performance and calculation of the PIM Financial Incentives and Performance Incentive Adjustment for the Evaluation Period. Complete, indexed schedules, workpapers and electronic files supporting the transmittal shall be provided with the transmittal. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, other rate case parties, and other interested persons that may propose any adjustments necessary to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

The review of the annual PIM Provision transmittal will be conducted concurrent with and in conjunction with the annual RBA Review Transmittal. The Performance Incentive Adjustment will be determined annually based on the PIM Provision transmittal and, after review and subject to explicit approval by the Commission, will become effective on June 1 of the year following the Evaluation Period, concurrent and in conjunction with determination of Target Revenues and the RBA Rate Adjustment in accordance with the RBA Provision. Any approved Performance Incentive Adjustment will be applied as monthly adjustments to Target Revenues for the twelve month period commencing June 1 of the year following the Evaluation Period in accordance with the Monthly Allocation Factors identified in the RBA Provision.

The Performance Targets, Deadbands and the amount of Maximum Financial Incentives used to determine the PIM Financial Incentive

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

levels for each of the PIMs shall be re-determined upon issuance of an interim or final order in a general rate case for each Company and shall remain constant in interim periods, unless otherwise amended, as necessary, by order of the Commission.

In the event that Performance Targets, Deadbands or the amounts of Maximum Financial Incentives are updated or amended by order of the Commission during the Evaluation Period, the Performance Targets, Deadbands and the amounts of Maximum Financial Incentives used in determining the amount of PIM Financial Incentives shall be a prorated weighted average based on the number of days of the Evaluation Period each parameter was effective.

Any revenue adjustments approved in accordance with this PIM Provision shall be excluded from the determination of Earnings Sharing Credits provided for in the Rate Adjustment Mechanism Provision ("RAM Provision").

The Performance Incentive Adjustment, and any prior year Performance Incentive Adjustment, shall be recalculated for errors in prior calculations and for subsequent Commission orders that change the basis for prior calculations. The effect of such changes shall be implemented as described in the RBA Provision, except that, the Performance Target, Deadband and Maximum Financial Incentive amounts determined in this PIM Provision shall not be recalculated based on errors in the calculation of these parameters and shall remain as specified unless and until changed by order of the Commission.

Evaluation Period

The Evaluation Period is defined as the annual twelve month calendar year period ending December 31, over which Measured Performance is determined and compared to the established Performance Target for each PIM described below. The first Evaluation Period shall begin January 1, 2018.

PIM Financial Incentive Calculation

For each PIM below, a Performance Target is specified, developed based on historical performance data. A Deadband is specified for each Performance Target in order to provide a satisfactory range of performance within which no reward or penalty amount is assessed.

A Maximum Financial Incentive amount is specified for each PIM with separate identification of a Maximum Reward Amount and a Maximum Penalty Amount.

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

Measured Performance for the Evaluation Period is compared to the Performance Target for each PIM. If the difference between Measured Performance and the Performance Target is less than or equal to the Deadband amount, no reward or penalty is awarded and the amount of the PIM Financial Incentive is zero. difference between Measured Performance and the Performance Target exceeds the Deadband amount, a reward or penalty ratio is calculated where the difference between Measured Performance and the Performance Target, less the Deadband amount, is the numerator and the Deadband amount is the denominator. This ratio is multiplied by either the Maximum Reward Amount or Maximum Penalty Amount, as applicable, to determine the PIM Financial Incentive for each PIM. The magnitude of the PIM Financial Incentive for each PIM shall not exceed 100% of the magnitude of the applicable Maximum Reward Amount or Maximum Penalty Amount established for each PIM.

Reliability Performance Incentive Mechanisms

There are two reliability PIMs: 1) System Average Interruption Frequency Index ("SAIFI"); and 2) System Average Interruption Duration Index ("SAIDI"). SAIFI is a measure of the average frequency of outages, defined as the annual total number of customer interruptions divided by the total number of customers served. SAIDI is a measure of the average duration of outage, defined as the sum of all customer interruption durations (in minutes) divided by the total number of customers served. The SAIFI and SAIDI Measured Performance and Performance Targets are determined using the IEEE Standard 1366 methodology.

For the Reliability Performance Incentive Mechanisms, the 2008-2017 record of historical performance data was used to establish the Performance Target and the Deadband. The Deadband was calculated as ±1 standard deviation of the historical performance data. Accordingly, 100% of the penalty is achieved when Measured Performance is equal to or greater than 2 standard deviations from the Performance Target.

SAIFI:

Performance Target: 1.103 interruptions per customer during the one-year Evaluation Period

Deadband: ± 0.088 interruptions (1 Standard Deviation)

HAWAIIAN ELECTRIC COMPANY, INC

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.

REVISED SHEET NO. 98C Effective September 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

Range for no penalty: 1.015 interruptions to 1.191 interruptions per customer (± 1 Standard Deviation from Target)

Rewards: Not Applicable

Penalties for greater than 1.191 interruptions per customer

Maximum Reward Amount: Not Applicable Maximum Penalty Amount: \$2,276,417.

The Maximum Penalty Amount was determined to be equal to 0.20% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

SAIDI:

Target: 99.23 minutes per outage

Deadband: ± 8.96 minutes (1 Standard Deviation)

Range for no penalty: 90.27 minutes to 108.19 minutes per outage (± 1 Standard Deviation from Target)

Rewards: Not Applicable

Penalties for greater than 108.19 minutes per outage

Maximum Reward Amount: Not Applicable Maximum Penalty Amount: \$2,276,417.

The Maximum Penalty Amount was determined to be equal to 0.20% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

Call Center Performance Incentive Mechanism

The Call Center Performance PIM measures the performance of the utility call center in terms of the percentage of calls answered within thirty (30) seconds. The calculation of the call center performance shall exclude blocked calls from the denominator.

The Performance Target for the Call Center Performance Incentive Mechanism was calculated based on the average of quarterly data from Quarter 3 of 2016 to Quarter 2 of 2018.

HAWAIIAN ELECTRIC COMPANY, INC

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.

REVISED SHEET NO. 98D Effective June 1, 2019

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

<u>Call Center Performance:</u>

Performance Target: 80.10% of calls answered within 30 seconds

Deadband: +/- 3.00% of calls answered within 30 seconds

Range for no reward or penalty: 77.10 % of calls answered to 83.10% of calls answered.

Rewards apply for greater than 83.10 % of calls answered Penalties apply for less than 77.10 % of calls answered

Maximum Reward Amount: \$910,567. Maximum Penalty Amount: \$910,567.

The magnitude of the Maximum Reward Amount and Maximum Penalty Amount were determined to be equal to 0.08% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

Additional PIMs:

The Commission may order the establishment of one or more PIMs, and the targets, deadbands, rewards, penalties, and allocations for that PIM, as applicable, shall be implemented as specified in the Commission's order that approved the applicable PIM, and the applicable PIM Financial Incentive shall be included in the Performance Incentive Adjustment.

Commission's Authority

The Commission may suspend any or all parts of this PIM Provision. Such suspension shall remain in place until removed by Commission order.

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

<u>Historical Reference</u>

The following table summarizes the prior PIMs in effect, as these values may be applicable during certain portions of the Evaluation Period.

| PIM: | Effective Period: | Performance Target: | Deadband: | Maximum Reward: | Maximum Penalty: |
|----------------|--------------------------------|---|-----------|--------------------|---------------------|
| | | | | | |
| SAIFI | 1/1/2018 thru 2/15/2018 | 1.116 interruptions per customer | +/- 0.090 | N/A | \$2,039,094 |
| SAIFI | 2/16/2018 thru 4/12/2018 | 1.116 interruptions per customer | +/- 0.090 | N/A | \$2,260,799 |
| SAIFI | 4/13/2018 thru 8/31/2018 | 1.116 interruptions per customer | +/- 0.090 | N/A | \$2,276,417 |
| SAIDI | 1/1/2018 thru 2/15/2018 | 99.03 minutes Per outage | +/- 9.07 | N/A | \$2,039,094 |
| SAIDI | 2/16/2018 thru 4/12/2018 | 99.03 minutes Per outage | +/- 9.07 | N/A | \$2,260,799 |
| SAIDI | 4/13/2018 thru 8/31/2018 | 99.03 minutes Per outage | +/- 9.07 | N/A | \$2,276,417 |
| | | | | | |
| Call Center | 1/1/2018 thru 2/15/2018 | 79.07% of calls answered within 30 sec. | +/- 3.00% | \$815,638 | \$815 , 638 |
| Call | 2/16/2018 | 79.46% of | +/- 3.00% | \$904,320 | \$904,320 |
| Center | thru 4/12/2018 | calls answered within 30 sec. | | | |
| Call Center | 4/13/2018 thru 8/31/2018 | 79.56% of calls answered within 30 sec. | +/- 3.00% | \$910,567 | \$910,567 |

HAWAIIAN ELECTRIC COMPANY, INC

HAWAIIAN ELECTRIC ATTACHMENT 1A

Superseding Revised Sheet No. 50E REVISED SHEET NO. 50E Effective May 1, 2019 Effective June 1, 2019

Deleted: February 1, 2019

| RATE | SCHEDULES (| (continued) |
|------|-------------|-------------|
| | | |

| Sheet | Schedule | Date Effective | Character of Service |
|-------------|----------|--------------------|--|
| 92 | "RBA" | September 1, 2018 | Revenue Balancing Account Provision |
| 92A | "RBA" | June 1, 2019, | Revenue Balancing Account Provision |
| 92A.1 | "RBA" | June 1, 2019 | Revenue Balancing Account |
| | | | Provision |
| 92B | "RBA" | February 16, 2018 | Revenue Balancing Account |
| | | | Provision |
| 92C | "RBA" | January 1, 2018 | Revenue Balancing Account |
| 0.05 | #pp. # | - 1 0010 | Provision |
| 92D | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 92E | "RBA" | June 1, 2019 | Revenue Balancing Account |
| 721 | NDA | oune 1, 2015 | Provision |
| 92F | "RBA" | June 1, 2019 | Revenue Balancing Account |
| | | , | Provision |
| 93 | "RAM" | June 1, 2013 | Rate Adjustment |
| | | | Mechanism Provision |
| 93A | "RAM" | June 1, 2013 | Rate Adjustment |
| | | | Mechanism Provision |
| 93B | "RAM" | June 8, 2015 | Rate Adjustment |
| 0.0- | | - 0 0015 | Mechanism Provision |
| 93C | "RAM" | June 8, 2015 | Rate Adjustment |
| 93D | "RAM" | June 1, 2017 | Mechanism Provision Rate Adjustment |
| 930 | NAM | Julie 1, 2017 | Mechanism Provision |
| 93E | "RAM" | June 8, 2015 | Rate Adjustment |
| 302 | 14111 | 0 and 0, 2010 | Mechanism Provision |
| 93F | "RAM" | June 1, 2013 | Rate Adjustment |
| | | | Mechanism Provision |
| 93G | "RAM" | June 1, 2018 | Rate Adjustment |
| | | | Mechanism Provision |
| 93H | "RAM" | June 1, 2018 | Rate Adjustment |
| 0.0 = | #P334# | - 1 0010 | Mechanism Provision |
| 931 | "RAM" | June 1, 2018 | Rate Adjustment |
| 94 | "DD7C" | Marr 1 2010 | Mechanism Provision Purchased Power |
| 24 | "PPAC" | <u>May</u> 1, 2019 | Adjustment Clause |
| 94A | "PPAC" | May 1, 2019 | Purchased Power |
| J 111 | 11110 | <u> </u> | Adjustment Clause |
| 94B | "PPAC" | May 1, 2019 | Purchased Power |
| | | · | Adjustment Clause |
| | | | |

Deleted: January 1, 2018

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HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter Dated May 28,2019.

Deleted: February 22, 2019

Superseding SHEET NO. 50F REVISED SHEET NO. 50F Effective January 1, 2019 Effective June 1, 2019

RATE SCHEDULES (continued)

| Sheet | Schedule | Date Effective | Character of Service |
|-------|----------|-------------------|--|
| 95 | EV-F | January 1, 2019 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 95A | EV-F | January 1, 2019 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 95B | EV-F | December 12, 2017 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 96 | EV-U | December 12, 2017 | Commercial Public Electric Vehicle Charging Service Pilot |
| 96A | EV-U | December 12, 2017 | Commercial Public Electric Vehicle Charging Service Pilot |
| 97 | TOU-RI | October 18, 2018 | Residential Interim Time- of-Use Service |
| 97A | TOU-RI | January 1, 2019 | Residential Interim Time- of-Use Service |
| 97B | TOU-RI | October 18, 2018 | Residential Interim Time- of-Use Service |
| 97C | TOU-RI | January 1, 2019 | Residential Interim Time- of-Use Service |
| 98 | "PIM" | January 1, 2018 | Performance Incentive Mechanism Provision |
| 98A | "PIM" | January 1, 2018 | Performance Incentive Mechanism Provision |
| 98B | "PIM" | September 1, 2018 | Performance Incentive Mechanism Provision |
| 98C | "PIM" | September 1, 2018 | Performance Incentive Mechanism Provision |
| 98D | "PIM" | June 1, 2019 | Performance Incentive Mechanism Provision |
| 98E | "PIM" | September 1, 2018 | Performance Incentive Mechanism Provision |
| 99 | TOU-P | January 1, 2019 | Large Commercial Time-Of- Use Service |
| 99A | TOU-P | January 1, 2019 | Large Commercial Time-Of- Use Service |
| 99B | TOU-P | January 1, 2019 | Large Commercial Time-Of- Use Service |
| 99C | TOU-P | January 1, 2019 | Large Commercial Time-Of- Use Service |

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HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 28, 2019.

Deleted: Docket No. 2016-0328; Order No. 35927, Filed on December 7, 2018.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

Supplement To:

| Schedule Schedule Schedule Schedule | G – J – | Residential Service General Service - Non-Demand General Service - Demand Large Power Directly Served Service |
|--|------------|---|
| Schedule | P - | Large Power Service |
| Schedule | F - | Public Street Lighting, Highway |
| | | Lighting and Park and Playground Floodlighting |
| Schedule | U - | Time-of-Use Service |
| Schedule | TOU-R - | Residential Time-of-Use Service |
| Schedule | TOU-G - | Small Commercial Time-of-Use Service |
| Schedule | TOU-J - | Commercial Time-of-Use Service |
| Schedule | TOU-P - | Large Commercial Time-of-Use Service |
| Schedule | SS - | Standby Service |
| Schedule | TOU EV- | Residential Time-of-Use Service with |
| | | Electric Vehicle Pilot |
| Schedule | EV-F - | Commercial Public Electric Vehicle |
| | | Charging Facility Service Pilot |
| Schedule | TOU-RI- | Residential Interim Time-of-Use Service |

All terms and provisions of the above listed rate schedules applicable except that the total base rate charges for each billing period shall be adjusted by the Revenue Balancing Account Rate

A: PURPOSE:

Adjustments shown below:

The purpose of the Revenue Balancing Account ("RBA") is to record: 1) the difference between the Hawaiian Electric Company's target revenue and recorded adjusted revenue, and 2) monthly interest applied to the simple average of the beginning and ending month balances in the RBA. In addition, the recovery provision of this tariff provides for collection or return of the calendar year-end balance in the RBA and recovery or refund of the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits provided in the Rate Adjustment Mechanism ("RAM") Provision, and any revenue adjustment provided in accordance with the Performance Incentive Mechanism Provision, over the subsequent June 1st through May 31st period. Tracking of target revenue and recorded adjusted revenue commenced on the effective date of the tariff that implemented the Final Decision and Order in Hawaiian Electric's 2009 test year rate case, Docket No. 2008-0083, consistent with the Final Decision and Order in the Decoupling case, Docket No. 2008-0274.

HAWAIIAN ELECTRIC COMPANY, INC.

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018.

Transmittal Letter Dated July 23, 2018

REVISED SHEET NO. 92A Effective June 1, 2019

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

B: TARGET REVENUE:

For the purpose of the RBA, the target revenue is the annual electric revenue approved by the Public Utilities Commission in the last issued Decision & Order in the Company's most recent test year general rate case, excluding revenue for fuel and purchased power expenses that are recovered either in base rates or in a purchased power adjustment clause; excluding revenue being separately tracked or recovered through any other surcharge or rate tracking mechanism; and excluding amounts for applicable revenue taxes;

Plus: Any effective RAM Revenue Adjustment calculated under the RAM provision for years subsequent to the most recent rate case test year for which the Commission has issued a Decision & Order; and any Performance Incentive Adjustment provided for in accordance with the Performance Incentive Mechanism Provision; and

Less: Any applicable Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits calculated under the RAM provision.

Adjusted by: Other adjustments, as applicable, in accordance with Commission's Order authorizing such adjustment. Other adjustments, if any, are shown in the table Target Revenue Currently in Effect, provided in section H.

The target revenue shall be revised to correct for any errors in the calculation of the RAM Revenue Adjustment, Performance Incentive $\frac{1}{2}$ Adjustment, recorded adjusted revenues or other RBA accounting determinations (collectively "target revenue determinations") for any previous period and for revisions to RAM Revenue Adjustments or Performance Incentive Adjustments as a result of subsequent Commission orders that change the basis of previously calculated RAM Revenue Adjustments and/or Performance Incentive Adjustments. corrections of errors in previously calculated target revenue determinations, the target revenue shall be adjusted as of the date that the correct determinations would have been reflected in target revenue. For changes in the RAM Revenue Adjustment and/or Performance Incentive Adjustments as a result of subsequently issued Commission orders, the target revenue shall be adjusted as of the effective date of changes that are implemented pursuant to the subsequently issued Commission order.

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HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 28, 2019.

SHEET NO. 92A.1 Effective June 1, 2019

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

The Commission and the Consumer Advocate will be notified of the target revenue revisions or corrections prior to implementation by the Company. There is no presumption that the target revenue changes are ultimately warranted or correct. In the annual RBA review transmittal ("RBA Review Transmittal") filed on or before March 31 of each year, the utility will have the burden to demonstrate that the interim changes for the previous calendar year are warranted and correctly applied. The Consumer Advocate will provide comments regarding the changes with its Statement of Position. The RBA balance and RBA Rate Adjustment for the following year will reflect any appropriate modifications to the change made by the utility in the prior year if necessary.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 28, 2019.

Superseding REVISED SHEET NO. 92B Effective June 1, 2017

REVISED SHEET NO. 92B Effective February 16, 2018

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

Monthly Allocation Factors for the Target Revenue are as follows:

| January February | 8.19% 7.59% |
|---------------------|----------------|
| March | 8.10% |
| | |
| April | 7.98% |
| May | 8.40% |
| June | 8.07% |
| July | 8.70% |
| August | 8.94% |
| September | 8.65% |
| October | 8.84% |
| November | 8.26% |
| December | 8.28% |
| Total | 100.00% |
| | |

These factors are based on the mWh sales forecast that is approved by the Commission in Hawaiian Electric's 2017 test year rate case and shall be updated in any subsequent test year rate case.

C: BALANCING ACCOUNT ENTRIES:

Entries to the RBA will be recorded monthly. A debit entry to the RBA will be made equal to the target revenue as defined in Section B. above, times the appropriate monthly allocation factor in the table above. A credit entry to the RBA will be made equal to the recorded adjusted revenue. The recorded adjusted revenue is defined to include the electric sales revenue from authorized base rates, plus revenue from any authorized interim rate increase, plus revenue from any RBA rate adjustment, but excluding revenue for fuel and purchased power expenses, IRP/DSM, any Commission Ordered one-time rate refunds or credits or other surcharges, and adjusted to remove amounts for applicable revenue taxes.

Interest will be recorded monthly to the RBA by multiplying the simple average of the beginning and ending month balance in the RBA times the Interest Rate divided by 12. The Interest Rate shall be the short term debt rate as established in deriving the consolidated cost of capital in the Company's last full rate case. The Interest Rate prior to March 1, 2014 shall be 6 percent.

D: RECOVERY OF BALANCING ACCOUNT AMOUNTS:

In its annual RBA Review Transmittal, the Company will file with the Commission a statement of the previous calendar year-end balance in the RBA and the RAM Revenue Adjustment for the current calendar year, along with supporting calculations.

HAWAIIAN ELECTRIC COMPANY, INC.

Docket No. 2016-0328; Order No. 35280, issued February 9, 2018. Transmittal Letter Dated February 12, 2018.

Superseding REVISED SHEET NO. 92C Effective June 1, 2017

REVISED SHEET NO. 92C Effective January 1, 2018

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

Both an amortization of the previous calendar year-end balance in the RBA, adjusted for any Earnings Sharing Revenue Credits or Major Capital Projects Credits, Baseline Capital Projects Credits or corrections, any Performance Incentive Adjustment provided in accordance with the Performance Incentive Mechanism Provision and the RAM Revenue Adjustment will be recovered through a per-kWh RBA rate adjustment, over the 12 months from June 1 of the current calendar year to May 31 of the succeeding calendar year. The recovery through the RBA Rate Adjustment of a RAM Revenue Adjustment calculated for a calendar year that is also a rate case test year shall terminate on the effective date of tariff rates that implement a Commission approved base revenue level authorized in the Company's test year rate case.

Revisions to Target Revenue based on corrections for errors and subsequently issued Commission orders, described in Section B above, will not be reflected in the RBA Rate Adjustment until a succeeding June 1 to May 31 period, unless otherwise ordered or approved by the Commission.

On or before March 31 of each year, the Company shall file with the Commission, the Consumer Advocate, and each party to the Company's most recent rate case proceeding, an RBA Review Transmittal supporting the implementation of the RBA Provision, including RBA reconciliation, implementation of applicable components of the RAM Provision and Performance Incentive Mechanism Provision, determination and adjustments of target revenues, determination of the RBA Rate Adjustment; and documenting any errors, corrections and adjustments to Target Revenues in the preceding calendar year and prior to the transmittal date.

Complete, indexed workpapers and electronic files supporting the previous year-end balance in the RBA and target revenue determinations shall be provided to the Commission, the Consumer Advocate and all other parties to the Utility's most recent rate case proceeding ("Other Rate Case Parties"), if any, as part of the annual RBA Review Transmittal filing. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, Other Rate Case Parties, and other interested persons that may propose any adjustments necessary to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

Superseding <u>REVISED</u> SHEET NO. 92D Effective <u>June 1, 2018</u>

REVISED SHEET NO. 92D Effective June 1, 2019

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REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

As described in Sections 6-61-61 and 6-61-111 of the Hawaii Administrative Rules, Title 6, Chapter 61, based upon the Company's filed schedules and in the absence of any protests submitted by the Consumer Advocate, Other Rate Case Parties, or other interested persons, not later than 15 days before June 1st, the RBA Rate Adjustment shall go into effect on June 1st, and the Commission shall confirm the commencement of the RBA Rate Adjustment in its monthly Tariff Order.

E: REVENUE BALANCING ACCOUNT RATE ADJUSTMENT:

The RBA Rate Adjustment is comprised of the calculated values from Section D above, adjusted to include amounts for applicable revenue taxes, and calculated based on the Company's forecast of mWh sales over the RBA Rate Adjustment recovery period.

The RBA Rate Adjustment shall remain unchanged during the recovery period unless further modification is required by order or approval of the Commission, except as specifically provided above.

RBA Rate Adjustment

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F. NOTICE

Notice of the annual Revenue Balancing Account Rate Adjustment filing shall be provided to all affected customers of the Utility in accordance with the provisions of this section by publication in newspapers of general circulation within 14 days and by including notification with its billing statements within 60 days after the Company makes its annual RBA Review Transmittal filing pursuant to this tariff. The notice to customers shall include the following information:

- a) A description of the proposed revision of revenues, Earnings Sharing Credits, and Major or Baseline Capital Projects Credits;
- b) The effect on the rates applicable to each customer class and on the typical bill for residential customers; and
- c) The Company's address, telephone number and website where information concerning the proposed Revenue Balancing Account Rate Adjustment may be obtained.

G: COMMISSION'S AUTHORITY

The Commission may $\underline{modify\ or}$ suspend any or all parts of this Revenue Balancing Account Provision. Such suspension shall remain in place until removed by Commission Order.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter Dated May 28, 2019.

Deleted: May 29, 2018

H: TARGET REVENUE CURRENTLY IN EFFECT.

Hawaiian Electric Company, Inc. Annual Target Revenue (\$000s)

| | Description | <u>Amount</u> |
|------------------|---|--|
| 1 2 3 | Electric Sales Revenue (Unadjusted) Tax Act Implementation Lag Electric Sales Revenue (Adjusted) | \$1,531,852 (\$2,143) \$1,529,709 |
| 4 5 6 7 | Less: Fuel Expense Purchase Power Expense Revenue Tax on Electric Sales Revenue Last Rate Order Target Revenues | (\$327,609) (\$466,211) (\$135,915) \$599,974 |
| 8 | Authorized RAM Revenues | \$20,351 |
| 9 | Revenue Tax | (\$1,808) |
| 10 | Net RAM Adjustment | \$18,543 |
| 11 | Authorized MPIR Revenues | \$19,811 |
| 12 | Revenue Tax | (\$1,760) |
| 13 | Net MPIR Adjustment | \$18,051 |
| 14 | Earnings Sharing Revenue Credits | \$0 |
| 15 | Revenue Tax | \$0 |
| 16 | Net Earnings Sharing Revenue Credits | \$0 |
| 17 | Performance Incentive Mechansim (PIM) | \$54 |
| 18 | Revenue Tax | (\$5) |
| 19 | Net PIM Reward (Penalty) | \$49 |
| 20 | 2017 Test Year Final D&O Refund | (\$48) |
| 21 | Revenue Tax | \$4 |
| 22 | Net 2017 Test Year Final D&O Refund | (\$44) |
| 23 | On-Bill Financing Pgm Implementation Costs | \$844 |
| 24 | Revenue Tax | (\$75) |
| 25 | Net On-Bill Financing Adjustment | \$769 |
| 26 | Effective Target Revenue | \$637,342 |

Totals may not add, due to rounding.

Final Decision and Order No. 35545, issued June 22, 2018 in Lines 1,4,5:

Docket No. 2016-0328. Exhibit A.

Line 2: Hawaiian Electric March 2018 Settlement Tariff Sheets, Attachment 1,

Line 2. Filed March 16, 2018 in Docket No. 2016-0328.

Lines 6,9,12,15,18,21,24: Revenue Tax based on 8.885% statutory rates.

Lines 8,11,14,17,20,23,26 Transmittal Nos. 19-01, 19-02, 19-03 Consolidated (Decoupling)

Schedule B1 (Scenario 2A), filed May 28, 2019.

Change in Effective Target Revenue for MPIR is effective January 1, 2019. See Order 35556, filed June 27, 2018 in Docket No. 2017-0213.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter Dated May 28, 2019.

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SHEET NO. 92F Effective June 1, 2019

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

I: HISTORICAL REFERENCE

| Category | Effective Period | Effective Target Revenue (\$000) | Change in Target Revenue (\$000) | <u>Source</u> | |
|---|---------------------------------|---|----------------------------------|--|---|
| Annual Decoupling Filing | 6/1/2017 thru 2/15/2018 | \$604,302 | N/A (1/1/2018 Baseline) | Schedule B1 filed in Transmittal No. 17-02 on 3/31/2017. | |
| 2017 Test Year Rate Case (Interim) | 2/16/2018 thru 4/12/2018 | \$637,077 | \$32,775 | Schedule B1 filed in Docket No. 2016-0328 on 1/19/2018. | |
| 2017 Test Year Rate Case (Interim) | 4/13/2018 thru 5/31/2018 | \$599,960 | (37, 117) | Schedule B1 filed in Docket No. 2016-0328 on 3/16/2018. | |
| Annual Decoupling Filing | 6/1/2018 thru 6/30/2018 | \$612,574 | \$12,614 | Schedule B1 filed in Transmittal No. 18-01 on 3/29/2018. | |
| MPIR (Schofield) | 7/1/2018 thru 9/30/2018 | \$618,587 | \$6,013 | Schedule B1 filed in Docket No. 2017-0213 on 7/18/2018. | |
| MPIR (Schofield) | 10/1/2018 thru 12/31/2018 | \$620,374 | \$1,787 | Schedule B1 filed in Docket No. 2017-0213 on 12/21/2018. | |
| MPIR (Schofield) | 1/1/2019 thru 5/31/2019 | \$630,624 | \$10,250 | Schedule B1 filed in Transmittal No. 19-01 on 2/7/2019. | |
| Annual Decoupling Filing | 6/1/2019 (current) | \$637,342 | \$6,718 | Schedule B1 (Scenario 2A) filed in Transmittal No. 19-01 on 5/28/2019. | Deleted: 637, 353 Deleted: 6, 729 Deleted: 21 |

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HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter Dated May 28, 2019.

SHEET NO. 98
Effective January 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION

Introduction

This Performance Incentive Mechanism ("PIM") Provision provides for the determination of a PIM Financial Incentive for each approved PIM for each Evaluation Period, based on Measured Performance compared to an established Performance Target for each PIM, as specified below.

The sum of the PIM Financial Incentives determined for all PIMs for the Evaluation Period will be the Performance Incentive Adjustment, which will be applied as an adjustment to the effective Target Revenue and will be recovered from or credited to customers through the RBA Rate Adjustment, as defined by and in accordance with the terms of the Revenue Balancing Account ("RBA") Provision.

Annual PIM Provision Transmittal

On or before March 31 of the year following an Evaluation Period, the Company shall file with the Commission, the Consumer Advocate, and each party to the Company's most recent rate case proceeding, a transmittal documenting the Measured Performance and calculation of the PIM Financial Incentives and Performance Incentive Adjustment for the Evaluation Period. Complete, indexed schedules, workpapers and electronic files supporting the transmittal shall be provided with the transmittal. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, other rate case parties, and other interested persons that may propose any adjustments necessary to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

The review of the annual PIM Provision transmittal will be conducted concurrent with and in conjunction with the annual RBA Review Transmittal. The Performance Incentive Adjustment will be determined annually based on the PIM Provision transmittal and, after review and subject to explicit approval by the Commission, will become effective on June 1 of the year following the Evaluation Period, concurrent and in conjunction with determination of Target Revenues and the RBA Rate Adjustment in accordance with the RBA Provision. Any approved Performance Incentive Adjustment will be applied as monthly adjustments to Target Revenues for the twelve month period commencing June 1 of the year following the Evaluation Period in accordance with the Monthly Allocation Factors identified in the RBA Provision.

The Performance Targets, Deadbands and the amount of Maximum Financial Incentives used to determine the PIM Financial Incentive

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

SHEET NO. 98A Effective January 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

levels for each of the PIMs shall be re-determined upon issuance of an interim or final order in a general rate case for each Company and shall remain constant in interim periods, unless otherwise amended, as necessary, by order of the Commission.

In the event that Performance Targets, Deadbands or the amounts of Maximum Financial Incentives are updated or amended by order of the Commission during the Evaluation Period, the Performance Targets, Deadbands and the amounts of Maximum Financial Incentives used in determining the amount of PIM Financial Incentives shall be a prorated weighted average based on the number of days of the Evaluation Period each parameter was effective.

Any revenue adjustments approved in accordance with this PIM Provision shall be excluded from the determination of Earnings Sharing Credits provided for in the Rate Adjustment Mechanism Provision ("RAM Provision").

The Performance Incentive Adjustment, and any prior year Performance Incentive Adjustment, shall be recalculated for errors in prior calculations and for subsequent Commission orders that change the basis for prior calculations. The effect of such changes shall be implemented as described in the RBA Provision, except that, the Performance Target, Deadband and Maximum Financial Incentive amounts determined in this PIM Provision shall not be recalculated based on errors in the calculation of these parameters and shall remain as specified unless and until changed by order of the Commission.

Evaluation Period

The Evaluation Period is defined as the annual twelve month calendar year period ending December 31, over which Measured Performance is determined and compared to the established Performance Target for each PIM described below. The first Evaluation Period shall begin January 1, 2018.

PIM Financial Incentive Calculation

For each PIM below, a Performance Target is specified, developed based on historical performance data. A Deadband is specified for each Performance Target in order to provide a satisfactory range of performance within which no reward or penalty amount is assessed.

A Maximum Financial Incentive amount is specified for each PIM with separate identification of a Maximum Reward Amount and a Maximum Penalty Amount.

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

Superseding Sheet no. 98B Effective January 1, 2018

REVISED SHEET NO. 98B Effective September 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

Measured Performance for the Evaluation Period is compared to the Performance Target for each PIM. If the difference between Measured Performance and the Performance Target is less than or equal to the Deadband amount, no reward or penalty is awarded and the amount of the PIM Financial Incentive is zero. If the difference between Measured Performance and the Performance Target exceeds the Deadband amount, a reward or penalty ratio is calculated where the difference between Measured Performance and the Performance Target, less the Deadband amount, is the numerator and the Deadband amount is the denominator. This ratio is multiplied by either the Maximum Reward Amount or Maximum Penalty Amount, as applicable, to determine the PIM Financial Incentive for each PIM. The magnitude of the PIM Financial Incentive for each PIM shall not exceed 100% of the magnitude of the applicable Maximum Reward Amount or Maximum Penalty Amount established for each PIM.

Reliability Performance Incentive Mechanisms

There are two reliability PIMs: 1) System Average Interruption Frequency Index ("SAIFI"); and 2) System Average Interruption Duration Index ("SAIDI"). SAIFI is a measure of the average frequency of outages, defined as the annual total number of customer interruptions divided by the total number of customers served. SAIDI is a measure of the average duration of outage, defined as the sum of all customer interruption durations (in minutes) divided by the total number of customers served. The SAIFI and SAIDI Measured Performance and Performance Targets are determined using the IEEE Standard 1366 methodology.

For the Reliability Performance Incentive Mechanisms, the 2008-2017 record of historical performance data was used to establish the Performance Target and the Deadband. The Deadband was calculated as ± 1 standard deviation of the historical performance data. Accordingly, 100% of the penalty is achieved when Measured Performance is equal to or greater than 2 standard deviations from the Performance Target.

SAIFI:

Performance Target: 1.103 interruptions per customer during the one-year Evaluation Period

Deadband: ± 0.088 interruptions (1 Standard Deviation)

HAWAIIAN ELECTRIC COMPANY, INC

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.

Superseding Sheet No. 98C Effective January 1, 2018

REVISED SHEET NO. 98C Effective September 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

Range for no penalty: 1.015 interruptions to 1.191 interruptions per customer (± 1 Standard Deviation from Target)

Rewards: Not Applicable

Penalties for greater than 1.191 interruptions per customer

Maximum Reward Amount: Not Applicable Maximum Penalty Amount: \$2,276,417.

The Maximum Penalty Amount was determined to be equal to 0.20% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

SAIDI:

Target: 99.23 minutes per outage

Deadband: ± 8.96 minutes (1 Standard Deviation)

Range for no penalty: 90.27 minutes to 108.19 minutes per outage (± 1 Standard Deviation from Target)

Rewards: Not Applicable

Penalties for greater than 108.19 minutes per outage

Maximum Reward Amount: Not Applicable Maximum Penalty Amount: \$2,276,417.

The Maximum Penalty Amount was determined to be equal to 0.20% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

Call Center Performance Incentive Mechanism

The Call Center Performance PIM measures the performance of the utility call center in terms of the percentage of calls answered within thirty (30) seconds. The calculation of the call center performance shall exclude blocked calls from the denominator.

The Performance Target for the Call Center Performance Incentive Mechanism was calculated based on the average of quarterly data from Quarter 3 of 2016 to Quarter 2 of 2018.

HAWAIIAN ELECTRIC COMPANY, INC

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.

Superseding Sheet No. 98D REVISED SHEET NO. 98D Effective September 1, 2018 Effective June 1, 2019

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

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Call Center Performance:

Performance Target: 80.10% of calls answered within 30 seconds

Deadband: +/- 3.00% of calls answered within 30 seconds

Range for no reward or penalty: 77.10 % of calls answered to 83.10% of calls answered.

Rewards apply for greater than 83.10 % of calls answered Penalties apply for less than 77.10 % of calls answered

Maximum Reward Amount: \$910,567. Maximum Penalty Amount: \$910,567.

The magnitude of the Maximum Reward Amount and Maximum Penalty Amount were determined to be equal to 0.08% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

Additional PIMs:

The Commission may order the establishment of one or more PIMs, and the targets, deadbands, rewards, penalties, and allocations for that PIM, as applicable, shall be implemented as specified in the Commission's order that approved the applicable PIM, and the applicable PIM Financial Incentive shall be included in the Performance Incentive Adjustment.

Commission's Authority

The Commission may suspend any or all parts of this PIM Provision. Such suspension shall remain in place until removed by Commission order.

> Deleted: Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.¶

HAWAIIAN ELECTRIC COMPANY, INC

Transmittal Letter dated May 28, 2019.

SHEET NO. 98E Effective September 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

<u>Historical Reference</u>

The following table summarizes the prior PIMs in effect, as these values may be applicable during certain portions of the Evaluation Period. $\,$

| PIM: | Effective | Performance | Deadband: | Maximum | Maximum |
|--------|-----------|----------------|-----------|--------------------|--------------------|
| | Period: | Target: | | Reward: | Penalty: |
| | | | | | |
| SAIFI | 1/1/2018 | 1.116 | +/- 0.090 | N/A | \$2,039,094 |
| | thru | interruptions | | | |
| | 2/15/2018 | per customer | | | |
| SAIFI | 2/16/2018 | 1.116 | +/- 0.090 | N/A | \$2,260,799 |
| | thru | interruptions | | | |
| | 4/12/2018 | per customer | | | |
| SAIFI | 4/13/2018 | 1.116 | +/- 0.090 | N/A | \$2,276,417 |
| | thru | interruptions | | | |
| | 8/31/2018 | per customer | | | |
| | | | | | |
| SAIDI | 1/1/2018 | 99.03 minutes | +/- 9.07 | N/A | \$2,039,094 |
| | thru | Per outage | | | |
| | 2/15/2018 | | | | |
| SAIDI | 2/16/2018 | 99.03 minutes | +/- 9.07 | N/A | \$2,260,799 |
| | thru | Per outage | | | |
| | 4/12/2018 | | | | |
| SAIDI | 4/13/2018 | 99.03 minutes | +/- 9.07 | N/A | \$2,276,417 |
| | thru | Per outage | | | |
| | 8/31/2018 | | | | |
| | | | | | |
| Call | 1/1/2018 | 79.07% of | +/- 3.00% | \$815,638 | \$815 , 638 |
| Center | thru | calls answered | | | |
| | 2/15/2018 | within 30 sec. | | | |
| Call | 2/16/2018 | 79.46% of | +/- 3.00% | \$904,320 | \$904,320 |
| Center | thru | calls answered | | | |
| | 4/12/2018 | within 30 sec. | | | |
| Call | 4/13/2018 | 79.56% of | +/- 3.00% | \$910 , 567 | \$910 , 567 |
| Center | thru | calls answered | | | |
| | 8/31/2018 | within 30 sec. | | | |

HAWAIIAN ELECTRIC COMPANY, INC

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.

<u>Attachment 2A – List of Schedules and Workpapers</u>

| Schedule A (REVISED) | HECO-WP-A-001 |
|-----------------------|----------------|
| Schedule A1 (REVISED) | HECO-WP-B-001 |
| Schedule B (REVISED) | HECO-WP-C-001 |
| Schedule B1 (REVISED) | HECO-WP-C-002 |
| Schedule B2 | HECO-WP-C-003 |
| Schedule C | HECO-WP-D1-001 |
| Schedule C1 | HECO-WP-D2-001 |
| Schedule C2 | HECO-WP-D2-002 |
| Schedule D (REVISED) | HECO-WP-D2-003 |
| Schedule D1 (REVISED) | HECO-WP-D2-004 |
| Schedule D2 | HECO-WP-D3-001 |
| Schedule D3 | HECO-WP-D4-001 |
| Schedule D4 | HECO-WP-D4-002 |
| Schedule D5 (REVISED) | HECO-WP-D4-003 |
| Schedule E (REVISED) | HECO-WP-E-001 |
| Schedule F (REVISED) | HECO-WP-F-001 |
| Schedule F1 | HECO-WP-F1-001 |
| Schedule F2 | HECO-WP-F1-002 |
| Schedule G | HECO-WP-F1-003 |
| Schedule H (REVISED) | HECO-WP-H-001 |
| Schedule I | HECO-WP-H-002 |
| Schedule J | HECO-WP-H-003 |
| Schedule K | HECO-WP-H-004 |
| Schedule L | HECO-WP-H-005 |
| Schedule L1 | HECO-WP-H-006 |
| Schedule M | HECO-WP-H-007 |
| Schedule N | HECO-WP-H-008 |
| | HECO-WP-H-009 |
| | HECO-WP-L1-001 |
| | HECO-WP-L1-002 |
| | HECO-WP-L1-003 |
| | HECO-WP-M-001 |
| | HECO-WP-M-002 |
| | HECO-WP-M-003 |
| | HECO-WP-M-004 |
| | HECO-WP-M-005 |

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK

<u>DETERMINATION OF 2019 REVENUE BALANCING ACCOUNT RATE ADJUSTMENT</u>

SCENARIO 2 - WEST LOCH PV EXCLUDED FROM RAM REVENUE ADJUSTMENT / 25 KV EXCLUDED FROM 2018 SAIDI AND SAIFI PIM CALCULATIONS

| Line No | . Description | Reference | Amount | 6/1/2019 Rate Amount | | |
|---------|--|---------------|----------------------------------|-------------------------|--------------------|-----------|
| | (a) | (b) | (c) | (d) | | |
| | RECONCILIATION OF RBA BALANCE: | | | | | |
| 1 | RBA Prior calendar year-end balance | Schedule B | \$ 37,331,443 | | | |
| 1a | OBF Program Implementation Cost Recovery - Year 1 of 2 | Schedule N | \$ 768,575 \$ 38,100,018 | | | |
| 2 | Revenue Tax Factor | Schedule C | 1.0975 | | | |
| 3 | Revenue for RBA Balance | | | \$ 41,814,770 | | |
| | RATE ADJUSTMENT MECHANISM "RAM" AMOUNT: | | | | | |
| 4 | Total RAM Revenue Adjustment Allowed (Note 2) | Schedule A1 | | \$ 20,351,049 | | |
| 5 | EARNINGS SHARING REVENUE CREDITS - 2019 ROE: | Schedule H | | \$ - | | |
| 6 | PERFORMANCE INCENTIVE MECHANISM REWARD (PENALTY) | Schedule M | | \$ 53,998 | | |
| 7 | 2017 TEST YEAR RATE CASE FINAL D&O REFUND | Note (3) | | \$ (48,000) | | |
| 8 | PUC-ORDERED MAJOR OR BASELINE CAPITAL PROJECTS CREDITS | Schedule I | | \$ - | | |
| | | | | | | |
| 9 | TOTAL RBA REVENUE ADJUSTMENT | Sum Col. (d) | | \$ 62,171,817 | | |
| 10 | GWH SALES VOLUME ESTIMATE JUNE 2019 - MAY 2020 | HECO-WP-A-001 | | 6,489.900 | | |
| 11 | RBA RATE ADJUSTMENT - cents per kWh | Note (1) | | 0.9580 | 6/1/2018 1.0350 | (0.0770) |
| 12 | MONTHLY BILL IMPACT @ 600 KWH | | | \$ 5.75 | \$ 6.21 | \$ (0.46) |
| | MONTHLY BILL IMPACT @ 500 KWH | | | \$ 4.79 | \$ 5.18 | \$ (0.39) |
| | Note (1): 2019 RBA Rate Adjustment Breakdown | Col. (d) | Rate Adjustment cents per kWh | Percentage Share | | |
| | RBA Balance | \$ 41,814,770 | 0.64430530 | 67.2568% | | |
| | RAM Amount | \$ 20,351,049 | 0.31358032 | 32.7336% | | |
| | Earnings Sharing Revenue Credits | \$ - | 0.00000000 | 0.0000% | | |
| | Performance Incentive Mechanism Reward (Penalty) | \$ 53,998 | 0.00083204 | 0.0869% | | |
| | 2017 Test Year Rate Case Final D&O Refund | \$ (48,000) | -0.00073961 | -0.0772% | | |
| | Major or Baseline Capital Projects Credits | \$ - | 0.00000000 | 0.0000% | | |
| | | \$ 62,171,817 | 0.95797804 | 100.0000% | | |

Note (2): Total RAM Revenue Adjustment Allowed is the sum of the RAM Cap + Exceptional and Other Projects. See Order No. 32735, filed March 31, 2015, paragraph 107, page 94, which states that the Total RAM Revenue Adjustment is to be comprised of the RAM Cap plus recovery of Exceptional And Other Matters.

Note (3): Docket No. 2016-0328 - Hawaiian Electric 2017 Test Year Rate Case Hawaiian Electric Proposed PIM Tariff Revisions and Refund Calculation, Exhibit 4, filed July 23, 2018, and approved by the Commission in Order No. 35661, filed August 30, 2018.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TOTAL RAM REVENUE ADJUSTMENT ALLOWED

| Line No. | Description | Reference | | Amount |
|----------|--|----------------------------|------|------------------------|
| | (a) | (b) | | (c) |
| | RAM REVENUE ADJUSTMENT DETERMINED ACCO | ORDING TO EXISTING TA | RIFF | S AND |
| 1 | O&M RAM | Schedule C | \$ | 8,622,195 |
| 2 | Rate Base RAM - Return on Investment | Schedule D | \$ | 8,789,138 |
| 3 | Depreciation & Amortization RAM Expense | Schedule E | \$ | 2,939,716 |
| 4 | Total RAM Revenue Adjustment | | \$ | 20,351,049 |
| | RAM REVENUE ADJUSTMENT CAP | | | |
| 5 | RAM Cap for 2019 RAM Revenue Adjustment | Schedule J | \$ | 27,945,687 |
| 6 | Plus: Exceptional and Other Matters | Schedule K | \$ | - |
| 7 | 2019 Cap - Total RAM Revenue Adjustment (Note 2) | | \$ | 27,945,687 |
| 8 | Total RAM Revenue Adjustment Allowed (Note 1) | Lesser of Line 4 or Line 7 | \$ | 20,351,049 To Sch A |

Note 1 RAM Revenue Adjustment Allowed:

See Order No. 32735, filed March 31, 2015, paragraph 106, page 94:

"The RAM Revenue Adjustment to be applied to determine effective Target Revenues will be the **lesser of** (a) the RAM Revenue Adjustment determined according to existing tariffs and procedures or (b) a RAM Revenue Adjustment Cap ("RAM Cap) to be calculated as specified."

Note 2 <u>Total RAM Cap</u>:

See Order No. 32735, filed March 31, 2015, paragraph 110, page 96:

"The RAM Cap will apply to the entire RAM Revenue Adjustment including the O&M RAM, Rate Base RAM (including Major Capital Projects and Baseline Projects), and the Depreciation and Amortization RAM."

Note 3 See Decision and Order No. 35768, Docket No. 2018-0075 filed October 16, 2018. Commission approved the Asset Transfer, Pole Licensing and Amended Joint Pole Agreements and the accounting and ratemaking treatment described in Exhibit E of the Application. The negotiated settlement over a ten year period for attachment fees, inclusive of revenue taxes, is \$2,371,930 per year.

For ratemaking purposes, attachment and ancillary revenues received from Hawaiian Telcom and other third party attachers for use of the poles are reflected in other operating revenue and will offset any depreciation costs of transferred poles and related equipment, and the authorized return to the Companies shareholders.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK SUMMARY OF ACCUMULATED REVENUE BALANCING ACCOUNT

| | | | | | | | Tax-effected | | |
|--------|---------------------|--------------------|--------------------|----------------|--------------------------------|-----------------|--------------------|-------------|---------------|
| | | | | Recorded | | Adjustment for | Balance | | |
| | | Beginning | Target | Adjusted | Variance to | prior year | Subject to | Interest at | Ending |
| Line N | | Balance | Revenues | Revenue | RBA | RBA accrual | Interest | 1.75%/year | Balance |
| | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) |
| | Monthly RBA Balance | a and A ativity (N | Monthly DLIC Dat | | | | | | |
| | Monuny KBA Balance | \$ 18,013,624 | violitily FOC Kpt) | | | | | | |
| 1 | 2017 December | \$ 46,306,327 | \$ 49,915,326 | \$ 43,730,598 | \$ 6,184,728 | \$ (3,302,057) | 29,169,047 | \$ 42,538 | \$ 49,231,536 |
| 2 | | ,, | ,, | ,, | + 0,-01,-0 | · (e,e ==,ee) | ,, | , | , , |
| 3 | 2018 January | \$ 49,231,536 | \$ 48,948,443 | \$ 43,871,232 | \$ 5,077,211 | \$ (3,369,650) | \$ 37,188,347 | \$ 54,233 | \$ 50,993,330 |
| 4 | February | \$ 50,993,330 | \$ 45,953,154 | \$ 40,430,219 | \$ 5,522,935 | \$ (4,185,853) | \$ 38,358,939 | \$ 55,940 | \$ 52,386,352 |
| 5 | March | \$ 52,386,352 | \$ 51,603,222 | \$ 46,365,780 | \$ 5,237,442 | \$ (3,345,112) | \$ 39,599,394 | \$ 57,749 | \$ 54,336,431 |
| 6 | April | \$ 54,336,431 | \$ 49,061,587 | \$ 45,638,864 | \$ 3,422,723 | \$ (3,430,466) | \$ 40,341,925 | \$ 58,832 | \$ 54,387,520 |
| 7 | May | \$ 54,387,520 | \$ 50,396,658 | \$ 43,802,261 | \$ 6,594,397 | \$ (3,440,553) | \$ 41,553,464 | \$ 60,599 | \$ 57,601,782 |
| 8 | June | \$ 57,601,782 | \$ 49,434,694 | \$ 46,747,403 | \$ 2,687,291 | \$ (4,129,862) | \$ 42,233,769 | \$ 61,591 | \$ 56,220,802 |
| 9 | July | \$ 56,220,802 | \$ 53,817,091 | \$ 50,144,604 | \$ 3,672,487 | \$ (4,451,628) | \$ 41,454,689 | \$ 60,455 | \$ 55,502,116 |
| 10 | August | \$ 55,502,116 | \$ 55,301,701 | \$ 50,148,289 | \$ 5,153,412 | \$ (4,546,694) | \$ 41,435,565 | \$ 60,427 | \$ 56,169,261 |
| 11 | September | \$ 56,169,261 | \$ 53,507,798 | \$ 54,077,963 | \$ (570,165) | \$ (4,315,858) | \$ 39,891,740 | \$ 58,175 | \$ 51,341,413 |
| 12 | October | \$ 51,341,413 | \$ 54,683,113 | \$ 56,214,832 | \$ (1,531,719) | \$ (4,543,142) | \$ 35,865,707 | \$ 52,304 | \$ 45,318,856 |
| 13 | November | \$ 45,318,856 | \$ 51,095,307 | \$ 51,711,892 | \$ (616,585) | \$ (4,111,538) | \$ 31,893,935 | \$ 46,512 | \$ 40,637,245 |
| 14 | Oct/Nov True-U | | \$ 305,574 | * **,,,,,,,, | \$ 305,574 | ((,,,) | | \$ 453 | \$ 40,943,272 |
| 15 | December | \$ 40,943,272 | \$ 51,366,986 | \$ 51,070,061 | \$ 296,925 | \$ (3,951,109) | \$ 29,043,764 | \$ 42,355 | \$ 37,331,443 |
| 16 | | + ···,- ···,- ·- | \$ 615,475,328 | \$ 580,223,400 | \$ 35,251,928 | \$ (47,821,465) | | \$ 669,625 | 4 01,000,110 |
| 17 | | | +,.,-, | | +,, | + (.,,==,,) | | 4 000,000 | |
| 18 | | | | | | | | | |
| 19 | 2019 January | \$ - | \$ 51,648,125 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 20 | February | \$ - | \$ 47,864,379 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 21 | March | \$ - | \$ 51,080,563 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 22 | April | \$ - | \$ 50,323,814 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 23 | May | \$ - | \$ 52,972,435 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 24 | OBF Recovery | \$ 1,537,150 | Ψ 52,772,133 | Ψ | Ψ | Ψ | Ψ | Ψ | \$ - |
| 24a | June | \$ - | \$ 51,433,485 | s - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 25 | July | \$ - | \$ 55,448,738 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 26 | August | \$ - | \$ 56,978,359 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 27 | September | \$ - | \$ 55,130,068 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 28 | October | \$ - | \$ 56,341,017 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 29 | November | \$ - | \$ 52,644,434 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 30 | December | \$ - | \$ 52,771,903 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 31 | December | ψ - | Ψ 52,771,703 | - | φ - | Ψ - | Ψ - | Ψ - | Ψ - |
| ٠. | Sources of Data: | | Sch. B1 | Sch B2 | Cols (c)-(d) | Note (1) | Col ((b)+((e)+(f)) | (2)/(k) | Cols (b)+(e)+ |
| | | | Note (3) | 54 D2 | 2012 (c) (d) | 1.000 (1) | (Note 2) | - j. (**) | (f)+(h) |
| | | | (-) | | | | (–) | | (-) () |

Composite Federal & State Income Tax Rate 25.75% (j)
Income Tax Factor (1 / 1-tax rate) 1.346801347 (k)

Note (1):

Amounts represent recovery of prior years' RBA balance through the RBA rate adjustment effective June 1, 2017 for the period June 2017 through May 2018 and June 1, 2018 for the period June 2018 through May 2019.

Note (2):

In May 2018, the Company identified an inadvertent transposition error in the DSM adjustment (\$67,965) used to derive Recorded Adjusted Revenues. May 2018 Recorded Adjusted Revenues includes a true-up of -\$135,930 (-\$123,853 net of revenue taxes) to properly state the RBA Balance as of May 2018. The May 2018 balance includes an adjustment of -\$181 related to interest resulting from this correction.

Note (3):

In December 2018, the Company recorded a RBA Target true-up adjustment resulting from the Schofield Generating Station MPIR Order No. 35953, issued 12/14/18 in Docket No. 2017-0213, effective October 1, 2018. The RBA balance includes an adjustment of \$306,027 related to the incremental Target Revenues (\$305,574) and related interest (\$453) to properly state the RBA balance as of December 2018.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

| Line No. | Description (a) | Reference (b) | | 2 | Oocket No. 010-0080 Amounts (c) | | Docket No. 2016-0328 Amounts (d) | 2 | Oocket No. 2016-0328 Amounts (e) | 2 | Oocket No. 2016-0328 Amounts (f) | 2 | Oocket No. 016-0328 Amounts (g) | 2 | ocket No. 016-0328 Amounts (h) |
|-------------|---|--|--|----------------------------|---|-----------|---|-----------|---|-----------|---|-----------|---|----------|---|
| 1 | Last Rate Case Annual Electric Revenue at Approved Rate L | Note (3), (5), (5a) | \$000s | \$ | 1,765,954 | \$ | 1,581,445 | \$ | 1,529,709 | \$ | 1,529,709 | \$ | 1,529,709 | \$ | 1,529,709 |
| 1a | Less: Holdback of Interim Revenues | Note (3) | \$000s | | | \$ | (5,000) | \$ | · - | \$ \$ | · - | \$ \$ | - | \$ \$ | · - |
| 1b 2 | Less: Customer Benefit Adjustment Less: Fuel Expense | Note (3) Note (3), (5), (5a) | \$000s \$000s | \$ | (658,172) | \$ \$ | (6,000) (327,609) | \$ | (327,609) | \$ | (327,609) | \$ \$ | (327,609) | \$ | (327,609) |
| 3 | Purchased Power Expense | Note (3), (5), (5a) | \$000s | \$ | (438,707) | \$ | (466,211) | \$ | (466,211) | \$ | (466,211) | \$ | (466,211) | \$ | (466,211) |
| 4 | Revenue Taxes on Line 1 to 1b (8.885% statutory rate | | \$000s | \$ | (156,905) | \$ | (139,534) | \$ | (135,915) | \$ | (135,915) | \$ | (135,915) | \$ | (135,915) |
| 5 | Last Rate Order Target Annual Revenues | Sum Lines 14 | \$000s | \$ | 512,170 | \$ | 637,091 | \$ | 599,974 | \$ | 599,974 | \$ | 599,974 | \$ | 599,974 |
| 6 7 | Authorized RAM Revenues Less: Revenue Taxes on Line 6 at 8.885% | Note (1a) | \$000s \$000s | \$ | 101,131 (8,986) | \$ \$ | - | \$ | - | \$ \$ | - | \$ \$ | - | \$ \$ | - |
| 8 | Net RAM Adjustment - Test Year +6 | Lines 6 + 7 | \$000s | \$ | 92,146 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 9 10 | Authorized RAM Revenues Less: Revenue Taxes on Line 9 at 8.885% | Note (7) | \$000s \$000s | \$ | - | \$ | - | \$ \$ | - | \$ | 13,828 (1,229) | \$ | 13,828 (1,229) | \$ \$ | 13,828 |
| 11 | Net RAM Adjustment - Test Year +1 | Lines 9 + 10 | \$000s \$000s | \$ | | \$ | | \$ | - | <u>\$</u> | 12,599 | \$ | 12,599 | \$ | (1,229) 12,599 |
| 12 | Authorized RAM Revenues | Sch A, Line 4 | \$000s | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 13 14 | Less: Revenue Taxes on Line 12 at 8.885% Net RAM Adjustment - Test Year +2 | Lines 12 + 13 | \$000s \$000s | \$ | | \$ | <u> </u> | <u>\$</u> | - | \$ \$ | - | <u>\$</u> | | \$ | |
| 15 | Authorized MPIR Revenues | Schedule L | \$000s | \$ | - | \$ | - | \$ | _ | \$ | _ | \$ | 6,600 | \$ | 8,561 |
| 16 | Less: Revenue Taxes on Line 15 at 8.885% | | \$000s | \$ | - | \$ | | \$ | - | \$ | | \$ | (586) | \$ | (761) |
| 17 | Net MPIR Adjustment | Lines 15 + 16 | \$000s | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 6,014 | \$ | 7,800 |
| 18 19 | Less: EARNINGS SHARING REVENUE CREDITS Less: Revenue Taxes on Line 18 at 8.885% | Note (1a) | \$000s \$000s | \$ | (16) 1 | \$ \$ | (16) 1 | \$ | (16) 1 | \$ \$ | - | \$ \$ | - | \$ \$ | - |
| 20 | Net Earnings Sharing Revenue Credits | Lines 18 + 19 | \$000s | \$ | (14) | \$ | (14) | \$ | (14) | \$ | - | \$ | - | \$ | - |
| 21 | Less: PERFORMANCE INCENTIVE MECHANISM Less: Revenue Taxes on Line 24 at 8.885% | Sch A, Line 6 | \$000s | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 22 23 | Net Performance Incentive Mechanism | Lines 21 + 2 | \$000s \$000s | \$ | - | \$ | | \$ | | <u>\$</u> | | <u>\$</u> | - | \$ | |
| 24 | Less: 2017 TEST YEAR FINAL D&O REFUND | Sch A, Line 8 | \$000s | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 25 | Less: Revenue Taxes on Line 27 at 8.885% | Linn 24 + 25 | \$000s | \$ | - | <u>\$</u> | | \$ | - | <u>\$</u> | - | <u>\$</u> | - | \$ | - |
| 26 | Net 2017 Test Year Final D&O Refund | Lines 24 + 25 | \$000s | 3 | - | 3 | - | 3 | - | 3 | - | 3 | - | \$ | - |
| 27 | | Sch A, Line 1a * 1.0975 | \$000s | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 28 29 | Less: Revenue Taxes on Line 21 at 8.885% | Lines 27 + 28 | \$000s \$000s | \$ | | <u>\$</u> | | \$ | - | <u>\$</u> | - | <u>\$</u> | | \$ | - |
| 29 | Net OBF Program Implementation Costs PUC-ORDERED MAJOR OR BASELINE | Lines 27 ± 28 | \$000s | 3 | - | 3 | - | 3 | - | 3 | - | 3 | - | \$ | - |
| 30 | CAPITAL CREDITS: | Note (1a) | \$000s | \$ | - | \$ | | \$ | | \$ | | \$ | - | \$ | |
| 31 32 | Total Annual Target Revenues June 1, 2017 Annualized Revenues w/RAM Increase | Col (c), lines (5+8+20+30) | \$000s | \$ | 604,302 | | | | | | | | | | |
| | February 16, 2018 Annualized Revenues | | | Ψ | 001,302 | | | | | | | | | | |
| 33 | w/Interim Increase April 13, 2018 Annualized Revenues | Col (d), lines (5+8+20+30) Col (e), lines | \$000s | | | \$ | 637,077 | | | | | | | | |
| 34 | w/2nd Interim Increase | (5+11+20+30) | \$000s | | | | | \$ | 599,960 | | | | | | |
| 35 | June 1, 2018 Annualized Revenues w/RAM Increase | Col (f), lines (5+11+20+30) | \$000s | | | | | | | \$ | 612,574 | | | | |
| 36 | June 1, 2018 Annualized Revenues | Col (g), lines | \$000s | | | | | | | J | 012,574 | \$ | 618,587 | | |
| 37 | w/RAM Increase & MPIR accrued 7/1/18 June 1, 2018 Annualized Revenues | (5+11+17+20+30) Col (h), lines | \$000s | | | | | | | | | | | \$ | 620,374 |
| 31 | w/RAM Increase & MPIR accrued 10/1/18 | (5+11+17+20+30) | 30008 | | | | | | | | | | | Ф | 020,374 |
| 38 | June 1, 2018 Annualized Revenues | Col (i), lines | \$000s | | | | | | | | | | | | |
| 39 | w/RAM Increase & MPIR accrued 1/1/19 June 1, 2019 Annualized Revenues | (5+11+17+20+30) Col (j), lines (5+14+17 | \$000s | | | | | | | | | | | | |
| | w/RAM Increase & MPIR accrued 1/1/19 | +20+23+26+29+30) | | | (0) | | | | N . (0 | | | | N (0) | | |
| 40 | Distribution of Target Revenues by Month: | Note (1) | Note (2) | | Note (4) 2018 | N | Vote (4), (6) 2018 | | Note (6) 2018 | | 2018 | | Note (8) 2018 | Г | Note (8a) 2018 |
| 41 | January | 8.10% | 8.19% | | \$48,948,443 | | | | | | | | | | |
| 42 43 | February March | 7.26% 8.10% | 7.59% 8.10% | | \$23,503,022 | | \$22,450,132 \$51,603,222 | | | | | | | | |
| 44 | April | 7.84% | 7.98% | | | | \$20,335,492 | | \$28,726,095 | | | | | | |
| 45 46 | May June | 8.44% 8.47% | 8.40% 8.07% | | | | | | \$50,396,658 | | \$49,434,694 | | | | |
| 47 | July | 8.77% | 8.70% | | | | | | | | 377,737,077 | | \$53,817,090 | | |
| 48 | August | 9.04% | 8.94% | | | | | | | | | | \$55,301,700 | | |
| 49 50 | September October | 8.68% 8.78% | 8.65% 8.84% | | | | | | | | | | \$53,507,797 | 9 | 554,841,062 |
| 51 | November | 8.26% | 8.26% | | | | | | | | | | | | 551,242,893 |
| 52 53 | December Total Distributed Target Revenues | 8.26% 100.00% | 8.28% 100.00% | _ | \$72,451,465 | _ | \$94,388,846 | _ | \$79,122,753 | _ | \$49,434,694 | | 162,626,587 | | \$51,366,968 157,450,923 |
| | Footnotes: 1 RBA Tariff Revised July 26, 2011 to reflect 2011 test year. 1a Transmittal 17-02 filed March 31, 2017, establishing 2017 tar 2 RBA Tariff Effective February 16, 2018 to reflect 2017 test ye 3 Test Year 2017 Interim Increase provided for in Interim Decis 4 For the month of the initial implementation (Feb 2018), adjust 5 Test Year 2017 2nd Interim Increase provided for in Order Ne 5a Reduction for Tax Act Implementation Lag (March 2018 Settl | car. ion and Order 35100, issued D the monthly allocation by the 5. 35335, issued March 9, 2018 lement Tariff Sheets, Attachme | ecember 15, number of eff in Docket N nt 3, filed Ma | ective o. 201 rch 16 | days in the mon 6-0328: 6, 2018, in accor | nth o | ver the total number with Order No. | 353 | 35): | | | | \$35,971 0.46429 -\$603 -\$2,143 | | \$000s \$000s \$000s |
| | For the month of the initial implementation (April 2018), adju Transmittal 18-01 filed May 29, 2018, establishing 2018 target | | | ffectiv | e days in the mo | onth | over the total nur | nber | of days: | | | | 0.60000 | | |

- Transmittal 18-01 filed May 29, 2018, establishing 2018 target revenue effective June 1, 2018.

 MPIR Revenue accrual starting effective July 1, 2018 approved in Order No. 35647, issued August 15, 2018 in Docket No. 2017-0213. Excerpt filed at HECO-WP-L1-003.

 MPIR Revenue accrual starting October 1, 2018 approved in Order No. 35953, issued December 14, 2018 in Docket No. 2017-0213. Excerpt filed at HECO-WP-L1-003.

 MPIR Revenue accrual starting January 1, 2019 filed in Transmittal 19-01, filed February 7, 2019. Excerpt filed at HECO-WP-L1-003.

HAWAIIAN ELECTRIC COMPANY, INC, DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

| Line No. | Description | Reference | | 2 | Oocket No. 016-0328 Amounts | 2 | Oocket No. 2016-0328 Amounts | 2 | Oocket No. 016-0328 Amounts |
|----------------|---|--|------------------|----------|-----------------------------------|----------|------------------------------------|----------|-----------------------------------|
| 110. | (a) | (b) | | | (i) | _ | (j) | _ | (k) |
| 1 | Last Rate Case Annual Electric Revenue at Approved Rate L | Note (3), (5), (5a) | \$000s | \$ | 1,529,709 | \$ | 1,529,709 | \$ | 1,529,709 |
| | Less: Holdback of Interim Revenues | Note (3), (3), (3a) | \$000s | \$ | 1,329,709 | \$ | 1,329,709 | \$ | 1,329,709 |
| 1b | Less: Customer Benefit Adjustment | Note (3) | \$000s | \$ | - | \$ | - | \$ | - |
| 2 | Less: Fuel Expense | Note (3), (5), (5a) | \$000s | \$ | (327,609) | \$ | (327,609) | \$ | (327,609) |
| 3 | Purchased Power Expense | Note (3), (5), (5a) | \$000s | \$ | (466,211) | \$ | (466,211) | \$ | (466,211) |
| 4 | Revenue Taxes on Line 1 to 1b (8.885% statutory rate | | \$000s | \$ | (135,915) | \$ | (135,915) | \$ | (135,915) |
| 5 | Last Rate Order Target Annual Revenues | Sum Lines 14 | \$000s | \$ | 599,974 | \$ | 599,974 | \$ | 599,974 |
| 6 | Authorized RAM Revenues | Note (1a) | \$000s | \$ | - | \$ | - | \$ | - |
| 7 8 | Less: Revenue Taxes on Line 6 at 8.885% Net RAM Adjustment - Test Year +6 | Lines 6 + 7 | \$000s \$000s | \$ | | \$ | | \$ | - |
| 9 | Authorized RAM Revenues | Note (7) | \$000s | \$ | 13,828 | \$ | | \$ | |
| 10 | Less: Revenue Taxes on Line 9 at 8.885% | Note (7) | \$000s | \$ | (1,229) | \$ | - | \$ | - |
| 11 | Net RAM Adjustment - Test Year +1 | Lines 9 + 10 | \$000s | \$ | 12,599 | \$ | - | \$ | - |
| 12 | Authorized RAM Revenues | Sch A, Line 4 | \$000s | \$ | - | \$ | 20,351 | \$ | 20,351 |
| 13 | Less: Revenue Taxes on Line 12 at 8.885% | | \$000s | \$ | - | \$ | (1,808) | \$ | (1,808) |
| 14 | Net RAM Adjustment - Test Year +2 | Lines 12 + 13 | \$000s | \$ | - | \$ | 18,543 | \$ | 18,543 |
| 15 | Authorized MPIR Revenues | Schedule L | \$000s | \$ | 19,811 | \$ | 19,811 | \$ | 19,811 |
| 16 | Less: Revenue Taxes on Line 15 at 8.885% | Times 15 + 16 | \$000s | \$ | (1,760) | \$ | (1,760) | \$ | (1,760) |
| 17 | Net MPIR Adjustment | Lines 15 + 16 | \$000s | \$ | 18,051 | \$ | 18,051 | \$ | 18,051 |
| 18 19 | Less: EARNINGS SHARING REVENUE CREDITS Less: Revenue Taxes on Line 18 at 8.885% | Note (1a) | \$000s \$000s | \$ \$ | - | \$ \$ | - | \$ \$ | - |
| 20 | Net Earnings Sharing Revenue Credits | Lines 18 + 19 | \$000s | \$ | | \$ | | \$ | |
| 21 | Less: PERFORMANCE INCENTIVE MECHANISM | Sch A, Line 6 | \$000s | \$ | _ | \$ | 54 | \$ | 54 |
| 22 | Less: Revenue Taxes on Line 24 at 8.885% | Sen 71, Enic 0 | \$000s | \$ | - | \$ | (5) | \$ | (5) |
| 23 | Net Performance Incentive Mechanism | Lines 21 + 2 | \$000s | \$ | - | \$ | 49 | \$ | 49 |
| 24 | Less: 2017 TEST YEAR FINAL D&O REFUND | Sch A, Line 8 | \$000s | \$ | - | \$ | (48) | \$ | (48) |
| 25 | Less: Revenue Taxes on Line 27 at 8.885% | | \$000s | \$ | | \$ | 4 | \$ | 4 |
| 26 | Net 2017 Test Year Final D&O Refund | Lines 24 + 25 | \$000s | \$ | - | \$ | (44) | \$ | (44) |
| 27 | Add: OBF PROGRAM IMPLEMENTATION COSTS | Sch A, Line 1a * 1.0975 | \$000s | \$ | | \$ | 844 | \$ | 844 |
| 28 | Less: Revenue Taxes on Line 21 at 8.885% | Sell A, Ellic 1a 1.07/3 | \$000s | \$ | - | \$ | (75) | \$ | (75) |
| 29 | Net OBF Program Implementation Costs | Lines 27 + 28 | \$000s | \$ | - | \$ | 769 | \$ | 769 |
| | PUC-ORDERED MAJOR OR BASELINE | | | | | | | | |
| 30 | CAPITAL CREDITS: | Note (1a) | \$000s | \$ | - | \$ | - | \$ | - |
| 31 | Total Annual Target Revenues | | | | | | | | |
| | June 1, 2017 Annualized Revenues | | | | | | | | |
| 32 | w/RAM Increase | Col (c), lines (5+8+20+30) | \$000s | | | | | | |
| 22 | February 16, 2018 Annualized Revenues | G 1 (I) II (5:0:20:20) | 6000 | | | | | | |
| 33 | w/Interim Increase April 13, 2018 Annualized Revenues | Col (d), lines (5+8+20+30) Col (e), lines | \$000s | | | | | | |
| 34 | w/2nd Interim Increase | (5+11+20+30) | \$000s | | | | | | |
| | June 1, 2018 Annualized Revenues | (| ***** | | | | | | |
| 35 | | Col (f), lines (5+11+20+30) | \$000s | | | | | | |
| 36 | June 1, 2018 Annualized Revenues | Col (g), lines | \$000s | | | | | | |
| 37 | w/RAM Increase & MPIR accrued 7/1/18 June 1, 2018 Annualized Revenues | (5+11+17+20+30) Col (h), lines | \$000s | | | | | | |
| 51 | w/RAM Increase & MPIR accrued 10/1/18 | (5+11+17+20+30) | \$0003 | | | | | | |
| 38 | June 1, 2018 Annualized Revenues | Col (i), lines | \$000s | \$ | 630,624 | | | | |
| | w/RAM Increase & MPIR accrued 1/1/19 | (5+11+17+20+30) | | | | | | | |
| 39 | June 1, 2019 Annualized Revenues w/RAM Increase & MPIR accrued 1/1/19 | Col (j), lines (5+14+17 +20+23+26+29+30) | \$000s | | | \$ | 637,342 | \$ | 637,342 |
| | with the increase of the increased 1/1/1/ | 120123120123130) | | 1 | Note (8b) | - | Note (8b) |] | Note (8b) |
| 40 | Distribution of Target Revenues by Month: | Note (1) | Note (2) | | 2019 | | 2019 | | 2020 |
| 41 | January | 8.10% | 8.19% | | \$51,648,125 | | | | \$52,198,295 |
| 42 43 | February March | 7.26% 8.10% | 7.59% 8.10% | | \$47,864,379 \$51,080,563 | | | | \$48,374,244 \$51,624,688 |
| 44 | April | 7.84% | 7.98% | | \$50,323,814 | | | | \$50,859,877 |
| 45 | May | 8.44% | 8.40% | | \$52,972,435 | | | | \$53,536,713 |
| 46 | June | 8.47% | 8.07% | | | | \$51,433,485 | | |
| | July August | 8.77% 9.04% | 8.70% 8.94% | | | | \$55,448,738 \$56,978,359 | | |
| 47 48 | | J.U-T/U | | | | | \$55,130,068 | | |
| 47 48 49 | September | 8.68% | 8.65% | | | | | | |
| 48 | | 8.68% 8.78% | 8.65% 8.84% | | | | \$56,341,017 | | |
| 48 49 | September | | | | | | | | |

HAWAIIAN ELECTRIC COMPANY DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RECORDED ADJUSTED REVENUES

| | Description | January 2018 | February 2018 | March 2018 | April 2018 | May 2018 | June 2018 | July 2018 | August 2018 | September 2018 | October 2018 | November 2018 | December 2018 | Total |
|--|--|---|--|---|--|---|--|--|---|--|---|---|--|---|
| | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (1) | (m) | |
| | BILLED REVENUES: Current month's billed revenues (SAP014w) | 121 267 405 | 124 791 670 | 138,532,375 | 139,891,016 | 136,565,143 | 148,254,104 | 155,912,953 | 166,208,215 | 166,774,673 | 179,719,396 | 165,592,723 | 159,911,354 | 1.823.511.027 |
| 2 | Remove PBF revenues (SAP014w) | 131,367,405 (1,218,709) | 134,781,670 (1,201,960) | (1,194,318) | (1,211,024) | (1,182,968) | (1,265,642) | (1,382,251) | (1,590,817) | (1,573,352) | (1,655,808) | (1,506,750) | (1,423,869) | (16,407,468) |
| 3 | Remove Solar Saver non-revenues | (1,210,709) | (1,201,900) | (1,154,516) | 58,286 | 67,403 | (1,203,042) | (1,362,231) | (1,390,617) | (1,5/5,552) | (1,033,606) | (1,500,750) | (1,423,609) | 125,689 |
| 4 | City & County traffic signal revenue adjustments | | | (10,230) | 38,280 | 07,403 | (10,310) | | | (10,911) | | | (11,330) | (42,781) |
| 5 = | city & county traine signar revenue adjustments | | | (10,230) | | | (10,510) | | | (10,711) | | | (11,550) | (42,701) |
| um 1-4 | BILLED REVENUES | 130,148,696 | 133,579,710 | 137,327,827 | 138,738,278 | 135,449,578 | 146,978,152 | 154,530,702 | 164,617,398 | 165,190,410 | 178,063,588 | 164,085,973 | 158,476,155 | 1,807,186,467 |
| | UNBILLED REVENUES | | | | | | | | | | | | | |
| 6 | Current month's unbilled revenues (Unbilled Sales and Revenue Est) | 78,387,084 | 70,879,493 | 70,665,761 | 70,377,168 | 76,196,920 | 80,293,995 | 90,404,928 | 92,787,255 | 95,015,547 | 90,754,173 | 87,978,477 | 88,120,287 | 991,861,088 |
| 7 | Reverse prior month's unbilled revenues (Unbilled Sales and Revenue Est) | (77,212,019) | (78,387,084) | (70,879,493) | (70,665,761) | (70,377,168) | (76,196,920) | (80,293,995) | (90,404,928) | (92,787,255) | (95,015,547) | (90,754,173) | (87,978,477) | (980,952,820) |
| 6+7 | Unbilled revenues per Unbilled Sales and Revenue Estimate | 1,175,065 | (7,507,591) | (213,732) | (288,593) | 5,819,752 | 4,097,075 | 10,110,933 | 2,382,327 | 2,228,292 | (4,261,374) | (2,775,696) | 141,810 | 10,908,268 |
| 9 | Recovery of 12-31-16 RBA balance through RBA Rate Adjustment beginning 6-1-17 | (3,698,239) | (4,594,033) | (3,671,308) | (3,764,985) | (3,776,056) | | | | | | | | (19,504,621) HECO-WP |
| 10 | | (3,090,239) | (4,394,033) | (3,071,308) | | | (4.532.502) | (4.005.735) | (4.000.061) | (4.73(.715) | (4.006.163) | (4.512.471) | | (32,980,115) HECO-WP |
| 10 11 | Recovery of 12-31-17 RBA balance through RBA Rate Adjustment beginning 6-1-18 Accrual and reversal of ESM refund | 1.250 | 1 127 | 1.250 | 1 217 | - 1 210 | (4,532,582) | (4,885,725) | (4,990,061) | (4,736,715) | (4,986,163) | (4,512,471) | (4,336,398) | 6.170 |
| | | 1,258 | 1,127 | 1,258 | 1,217 | 1,310 | - | - | - | - | - | - | (521.071) | |
| 12 | Accrual of Performance Incentive Mechanism | - | - | - | - | - | - | - (40,000) | - | - | - | - | (531,871) | (531,871) |
| 13 | Accrual of Test Year Rate Case Refund | | - | | | - (1.500.200) | (2.002.000) | (48,000) | 2 020 500 | (1.010.600) | | | | (48,000) |
| 14 | Accrual of ECAC adjustment | 3,370,200 | 1,909,100 | 2,951,000 | 5,038,900 | (1,598,200) | (2,982,800) | 3,568,600 | 2,029,500 | (1,810,600) | 1,430,100 | 3,000,000 | 4,585,500 | 21,491,300 |
| 15 | Reversal of ECAC accrual | (361,600) | (2,429,267) | (2,429,267) | (2,429,266) | (2,743,434) | (2,743,434) | (2,743,432) | (152,634) | (152,634) | (152,632) | (1,262,501) | (1,262,501) | (18,862,602) |
| 16 | Accrual of PPAC adjustment | 2,191,500 | 757,800 | 3,515,100 | 2,401,700 | 4,654,200 | 4,647,800 | 1,320,900 | 1,157,600 | (1,315,800) | (3,152,800) | (1,325,100) | 123,800 | 14,976,700 |
| 17 | Reversal of PPAC accrual | (822,234) | (1,534,900) | (1,534,900) | (1,534,900) | (2,154,801) | (2,154,801) | (2,154,798) | (3,901,233) | (3,901,233) | (3,901,234) | (387,568) | (387,568) | (24,370,170) |
| 18 | Reclass excess DSM revenues | (33,172) | (49,801) | 11,448 | 163,556 | 164,655 | 172,002 | 184,046 | 80,370 | 75,572 | 79,569 | (17,328) | (15,121) | 815,796 |
| 19 | Reclass excess DRAC revenues | - | (12,490) | (96,264) | (79,581) | (115,027) | (131,987) | (173,171) | (162,078) | (210,176) | (88,349) | (106,014) | (75,362) | (1,250,499) |
| 20 | Tax Reform Act adjustment | (2,265,026) | (2,099,090) | (1,309,124) | (649,271) | 178,602 | 178,602 | 178,602 | 178,602 | 178,602 | 178,602 | 178,602 | 178,602 | (4,893,695) |
| 21 | Other unbilled adjustments | - | - | (239,405) | (457,680) | (1,408,951) | - | - | - | - | - | - | - | (2,106,036) |
| 22 | Accrual of current month's RBA (PUC Monthly Financial Report pg. 9A) | 5,077,211 | 5,522,935 | 5,237,442 | 3,422,723 | 6,594,397 | 2,687,291 | 3,672,487 | 5,153,412 | (570,165) | (1,531,719) | (616,585) | 602,499 | 35,251,928 |
| 23 | RBA gross up for revenue taxes | 495,099 | 538,563 | 510,724 | 333,763 | 643,046 | 262,048 | 358,119 | 502,530 | (55,599) | (149,364) | (60,126) | 58,752 | 3,437,555 |
| 9-23 | Miscellaneous unbilled accruals | 3,954,997 | (1,990,056) | 2,946,704 | 2,446,176 | 439,741 | (4,597,861) | (722,372) | (103,992) | (12,498,748) | (12,273,990) | (5,109,091) | (1,059,668) | (28,568,160) |
| 8+24 | UNBILLED REVENUES | 5,130,062 | (9,497,647) | 2,732,972 | 2,157,583 | 6,259,493 | (500,786) | 9,388,561 | 2,278,335 | (10,270,456) | (16,535,364) | (7,884,787) | (917,858) | (17,659,892) |
| = 5+25 | TOTAL REVENUES PER G/L (PUC Monthly Financial Report) | 135,278,758 | 124,082,063 | 140,060,798 | 140,895,862 | 141,709,071 | 146,477,366 | 163,919,264 | 166,895,733 | 154,919,954 | 161,528,223 | 156,201,186 | 157,558,297 | 1,789,526,575 |
| | Billed Adjustments to Determine Adjusted Revenues for RBA: | | | | | | | | | | | | | |
| 27 | Add back C&C unmetered revenue | | | 10,230 | - | | 10,310 | | | 10,911 | | - | 11,330 | 42,781 |
| 28 | Add back diplomatic tax exemption (excl. exempted rev taxes on PBF surcharge) | 323 | 312 | 337 | 297 | 307 | 17 | 742 | 351 | 334 | 332 | | 581 | 3,933 |
| 29 | Remove ECAC revenues | 7,436,356 | 4.121.689 | 1,715,503 | 2,282,011 | (962,632) | (6,550,979) | (7,637,339) | (6,113,486) | (13,243,977) | (25,122,448) | (25,453,166) | (28,257,616) | (97,786,084) |
| 30 | Remove PPAC revenues | (13,915,656) | (14,192,358) | (14,513,240) | (14,719,197) | (12,339,728) | (11,177,856) | (13,913,483) | (18,062,250) | (19,621,783) | (21,968,249) | (18,435,053) | (15,583,999) | (188,442,852) |
| 31 | Remove REIP revenues | (13,713,030) | (11,172,330) | (11,515,210) | (11,712,127) | (12,000,720) | (11,177,050) | (9) | (10,002,250) | (17,021,703) | (21,700,217) | (10,155,055) | (10,000,000) | (100,112,032) |
| 32 | Remove DSM revenues | (357,105) | (321,161) | (68,674) | (67,965) | 275,965 | 150,334 | 153,540 | 124,173 | 66,280 | 70,534 | 24,118 | (25,119) | 24.920 |
| 33 | Remove revenue taxes of PBF revenues | (83,120) | (81,978) | (81,456) | (82,596) | (80,682) | (86,323) | (94,272) | (108,499) | (107,308) | (112,932) | (102,768) | (97,111) | (1,119,045) |
| 34 | Remove Solar Saver revenues | (05,120) | (01,570) | (01,150) | 3,675 | 4,250 | (4) | (>1,2/2) | (100,155) | (107,500) | (112,752) | (102,700) | (>/,:::) | 7.928 |
| 35 | Remove revenue taxes on billed revenues | (10,948,941) | (10,937,987) | (11,052,098) | (11,208,828) | (10,870,536) | (11,490,407) | (11,820,594) | (12,479,665) | (11,754,399) | (11,633,204) | (10,672,582) | (10,175,477) | (135,044,718) |
| 36 | Remove base fuel (adjusted for revenue taxes) | (45,592,364) | (45,532,869) | (44,984,425) | (45,711,413) | (44,832,955) | (47,622,032) | (48,663,614) | (52,260,945) | (41,614,714) | (30,245,267) | (27,651,766) | (26,028,373) | (500,740,737) |
| 37 | Remove power purchase energy (adjusted for revenue taxes) | (19,235,019) | (19,209,918) | (18,978,535) | (19,285,245) | (18,914,631) | (20,091,318) | (20,530,752) | (22,048,435) | (23,218,962) | (27,055,291) | (24,735,328) | (23,283,155) | (256,586,589) |
| 38 | Other operating revenue - EV-U revenue net of revenue taxes | 8.735 | 7,570 | 8,289 | 7.811 | 9,331 | 8,857 | 9,382 | 10.487 | 9,761 | 9,376 | 8,408 | 8.222 | 106,229 |
| 39 | Other operating revenue - SMNP revenue net of revenue taxes | 10,372 | 10,091 | 10,724 | 10,775 | 10,473 | 10,868 | 11,357 | 11,803 | 12,350 | 12,566 | 12,930 | 13,235 | 137,544 |
| | WITH IAP A STATE OF THE STATE O | | | | | | | | | | | | | |
| 40 | Unbilled Adjustments to Determine Adjusted Revenues for RBA: | (1.250) | (1.127) | (1.259) | (1.217) | (1.210) | | | | | | | | (6.170) |
| 40 | Remove ESM refund accrual & reversal | (1,258) | (1,127) | (1,258) | (1,217) | (1,310) | - | - | - | - | - | - | | (6,170) |
| 41 | Remove accrual of Performance Incentive Mechanism | - | - | - | - | - | - | 40.000 | - | - | - | - | 531,871 | 531,871 |
| 42 | Remove accrual of Test Year rate case refund | | | | - | | - | 48,000 | - | | - | | - | 48,000 |
| 43 | Remove ECAC revenues | (1,486,257) | (2,862,578) | 303,420 | 280,965 | (3,957,819) | (1,816,018) | 500,913 | 1,265,450 | (10,925,845) | 1,035,980 | (2,713,315) | (892,545) | (21,267,649) |
| 44 | Remove ECAC accrual | (3,008,600) | 520,167 | (521,733) | (2,609,634) | 4,341,634 | 5,726,234 | (825,168) | (1,876,866) | 1,963,234 | (1,277,468) | (1,737,499) | (3,322,999) | (2,628,698) |
| 45 | Remove PPAC revenues Remove PPAC accrual | (362) | 790,980 | 83,923 | (190,441) | 1,925,917 | (585,389) | (3,208,412) | (1,255,537) | (926,779) | 502,842 | 2,437,748 | 175,715 | (249,795) |
| | | (1,369,266) | 777,100 | (1,980,200) | (866,800) | (2,499,399) | (2,492,999) | 833,898 | 2,743,633 | 5,217,033 | 7,054,034 | 1,712,668 | 263,768 | 9,393,470 |
| 46 | | | | 67,590 | 75,567 | 4,644 | 1,691 | 10,508 | (54,195) | (1,101) | (1,358) | (20,730) | (28,943) | 200,481 |
| 46 47 | Remove DSM revenues | 123 | 146,685 | (** *** | | (164,655) | (172,002) | (184,046) | (80,370) | (75,572) | (79,569) | 17,328 | 15,121 | (815,796) |
| 16 17 18 | Remove DSM revenues Remove excess DSM revenues | | 49,801 | (11,448) | (163,556) | | | | | | | | | |
| 16 17 18 19 | Remove DSM revenues Remove excess DSM revenues Remove excess DRAC revenues | 123 33,172 | 49,801 12,490 | 96,264 | 79,581 | 115,027 | 131,987 | 173,171 | 162,078 | 210,176 | 88,349 | 106,014 | 75,362 | 1,250,499 |
| 16 17 18 19 | Remove DSM revenues Remove excess DRAC revenues Remove Tax Reform Act adjustment | 123 33,172 2,265,026 | 49,801 12,490 2,099,090 | 96,264 1,309,124 | 79,581 649,271 | 115,027 (178,602) | (178,602) | 173,171 (178,602) | 162,078 (178,602) | (178,602) | 88,349 (178,602) | 106,014 (178,602) | 75,362 (178,602) | 4,893,695 |
| 46 47 48 49 50 | Remove DSM revenues Remove excess DSM revenues Remove excess DRAC revenues Remove Tax Reform Act adjustment Remove Other unbilled adjustment | 123 33,172 - 2,265,026 | 49,801 12,490 2,099,090 | 96,264 1,309,124 239,405 | 79,581 649,271 457,680 | 115,027 (178,602) (697,085) | (178,602) | (178,602) | (178,602) | (178,602) | (178,602) | (178,602) | (178,602) | 4,893,695 |
| 46 47 48 49 50 51 | Remove DSM revenues Remove excess DSM revenues Remove excess DRAC revenues Remove Tax Reform Act adjustment Remove Other unbilled adjustments Remove BBA accruals | 123 33,172 - 2,265,026 - (5,077,211) | 49,801 12,490 2,099,090 - (5,522,935) | 96,264 1,309,124 239,405 (5,237,442) | 79,581 649,271 457,680 (3,422,723) | 115,027 (178,602) (697,085) (6,594,397) | (178,602) - (2,687,291) | (178,602) | (178,602) - (5,153,412) | (178,602) - 570,165 | (178,602) - 1,531,719 | (178,602) - 616,585 | (178,602) - (602,499) | 4,893,695 (35,251,928) |
| 46 47 48 49 50 51 52 | Remove DSM revenues Remove excess DSM revenues Remove excess DRAC revenues Remove Tax Reform Act adjustment Remove Other unbilled adjustments Remove RBA accruals Remove RBA gross up for revenue taxes | 123 33,172 - 2,265,026 - (5,077,211) (495,099) | 49,801 12,490 2,099,090 - (5,522,935) (538,563) | 96,264 1,309,124 239,405 (5,237,442) (510,724) | 79,581 649,271 457,680 (3,422,723) (333,763) | 115,027 (178,602) (697,085) (6,594,397) (643,046) | (178,602) - (2,687,291) (262,048) | (178,602) - (3,672,487) (358,119) | (178,602) - (5,153,412) (502,530) | (178,602) - 570,165 55,599 | (178,602) - 1,531,719 149,364 | (178,602) - 616,585 60,126 | (178,602) - (602,499) (58,752) | 4,893,695 - (35,251,928) (3,437,555) |
| 46 47 48 49 50 51 52 53 | Remove DSM revenues Remove excess DSM revenues Remove excess DRAC revenues Remove Tax Reform Act adjustment Remove Other unbilled adjustment Remove RBA accruals Remove RBA gross up for revenue taxes Remove RBA comment access on unbilled revenues | 123 33,172 2,265,026 (5,077,211) (495,099) 356,259 | 49,801 12,490 2,099,090 - (5,522,935) (538,563) 1,246,258 | 96,264 1,309,124 239,405 (5,237,442) (510,724) 304,765 | 79,581 649,271 457,680 (3,422,723) (333,763) 345,403 | 115,027 (178,602) (697,085) (6,594,397) (643,046) 185,661 | (178,602) - (2,687,291) (262,048) 251,910 | (178,602) - (3,672,487) (358,119) (224,632) | (178,602) - (5,153,412) (502,530) 235,632 | (178,602) - 570,165 55,599 1,276,077 | (178,602) - 1,531,719 149,364 685,040 | (178,602) - 616,585 60,126 673,880 | (178,602) - (602,499) (58,752) 438,951 | 4,893,695 - (35,251,928) (3,437,555) 5,775,204 |
| 16 17 18 19 50 51 52 53 54 | Remove DSM revenues Remove excess DRM revenues Remove excess DRAC revenues Remove Tax Reform Act adjustment Remove Other unbilled adjustments Remove RBA accruals Remove RBA accruals Remove revenue taxes Remove revenue taxes on unbilled revenues Remove revenue taxes on the control of the con | 123 33,172 2,265,026 (5,077,211) (495,099) 356,259 36,828 | 49,801 12,490 2,099,090 - (5,522,935) (538,563) 1,246,258 4,056,143 | 96,264 1,309,124 239,405 (5,237,442) (510,724) 304,765 67,966 | 79,581 649,271 457,680 (3,422,723) (333,763) 345,403 (553,246) | 115,027 (178,602) (697,085) (6,594,397) (643,046) 185,661 (1,436,497) | (178,602) - (2,687,291) (262,048) 251,910 (568,898) | (178,602) - (3,672,487) (358,119) (224,632) (2,957,080) | (178,602) (5,153,412) (502,530) 235,632 (792,084) | (178,602) - 570,165 55,599 1,276,077 13,375,971 | (178,602) - 1,531,719 149,364 685,040 644,413 | (178,602) - 616,585 60,126 673,880 813,770 | (178,602) - (602,499) (58,752) 438,951 270,673 | 4,893,695 (35,251,928) (3,437,555) 5,775,204 12,957,959 |
| 46 47 48 49 50 51 52 53 54 | Remove DSM revenues Remove excess DSM revenues Remove excess DRAC revenues Remove Tax Reform Act adjustment Remove Other unbilled adjustment Remove RBA accruals Remove RBA gross up for revenue taxes Remove RBA comment access on unbilled revenues | 123 33,172 2,265,026 (5,077,211) (495,099) 356,259 | 49,801 12,490 2,099,090 - (5,522,935) (538,563) 1,246,258 | 96,264 1,309,124 239,405 (5,237,442) (510,724) 304,765 | 79,581 649,271 457,680 (3,422,723) (333,763) 345,403 | 115,027 (178,602) (697,085) (6,594,397) (643,046) 185,661 | (178,602) - (2,687,291) (262,048) 251,910 | (178,602) - (3,672,487) (358,119) (224,632) | (178,602) - (5,153,412) (502,530) 235,632 | (178,602) - 570,165 55,599 1,276,077 | (178,602) - 1,531,719 149,364 685,040 | (178,602) - 616,585 60,126 673,880 | (178,602) - (602,499) (58,752) 438,951 | 4,893,695 - (35,251,928) (3,437,555) 5,775,204 |
| 46 47 48 49 50 51 52 53 54 55 56 | Remove DSM revenues Remove excess DRM revenues Remove excess DRAC revenues Remove Tax Reform Act adjustment Remove Other unbilled adjustments Remove RBA accruals Remove RBA accruals Remove revenue taxes Remove revenue taxes on unbilled revenues Remove revenue taxes on the control of the con | 123 33,172 2,265,026 (5,077,211) (495,099) 356,259 36,828 | 49,801 12,490 2,099,090 - (5,522,935) (538,563) 1,246,258 4,056,143 | 96,264 1,309,124 239,405 (5,237,442) (510,724) 304,765 67,966 | 79,581 649,271 457,680 (3,422,723) (333,763) 345,403 (553,246) | 115,027 (178,602) (697,085) (6,594,397) (643,046) 185,661 (1,436,497) | (178,602) - (2,687,291) (262,048) 251,910 (568,898) | (178,602) - (3,672,487) (358,119) (224,632) (2,957,080) | (178,602) (5,153,412) (502,530) 235,632 (792,084) | (178,602) - 570,165 55,599 1,276,077 13,375,971 | (178,602) - 1,531,719 149,364 685,040 644,413 | (178,602) - 616,585 60,126 673,880 813,770 | (178,602) - (602,499) (58,752) 438,951 270,673 | 4,893,695 (35,251,928) (3,437,555) 5,775,204 12,957,959 |
| 46 47 48 49 50 51 52 53 54 55 56 | Remove DSM revenues Remove excess DRM revenues Remove excess DRAC revenues Remove Tax Reform Act adjustment Remove Other unbilled adjustments Remove RBA accruals Remove RBA accruals Remove revenue taxes Remove revenue taxes on unbilled revenues Remove revenue taxes on the control of the con | 123 33,172 2,265,026 (5,077,211) (495,099) 356,259 36,828 | 49,801 12,490 2,099,090 - (5,522,935) (538,563) 1,246,258 4,056,143 | 96,264 1,309,124 239,405 (5,237,442) (510,724) 304,765 67,966 | 79,581 649,271 457,680 (3,422,723) (333,763) 345,403 (553,246) | 115,027 (178,602) (697,085) (6,594,397) (643,046) 185,661 (1,436,497) | (178,602) - (2,687,291) (262,048) 251,910 (568,898) | (178,602) - (3,672,487) (358,119) (224,632) (2,957,080) | (178,602) - (5,153,412) (502,530) 235,632 (792,084) (334,173) | (178,602) - 570,165 55,599 1,276,077 13,375,971 | (178,602) - 1,531,719 149,364 685,040 644,413 576,447 | (178,602) - 616,585 60,126 673,880 813,770 | (178,602) - (602,499) (58,752) 438,951 270,673 242,125 | 4,893,695 (35,251,928) (3,437,555) 5,775,204 12,957,959 |

Note: Amounts may not add exactly due to rounding.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF O&M RAM ADJUSTMENT (\$ in Thousands)

| | | | | | Footnote 4 | | | | | 2019 | |
|----------|--|------------------|-------|------------|------------|------|------------|---------------|---------------|-------------------|--|
| | | | D | ocket No. | Previously | 0& | M Subject | Net Inflation | 0& | M RAM | |
| | | | 20 | 016-0328 | Approved | to] | Escalation | Indices | Ad | justment | |
| Line No. | Decryption | Reference | Α | pproved | RAM | | 1(c) + (d) | Footnote 2 | Col (e) * (f) | | |
| | (a) | (b) | | (c) | (d) | | (e) | (f) | | (g) | |
| 1 | Base BU Labor Expenses | Schedule C1 | \$ | 47,048 | | \$ | 47,048 | 4.19% | \$ | 1,973 | |
| 2 | Base Non-Labor Expense | Schedule C2 | \$ | 134,734 | | \$ | 134,734 | 4.24% | \$ | 5,718 | |
| 3 | Payroll Taxes | Footnote 1 | \$ | 3,943 | | \$ | 3,943 | 4.19% | \$ | 165 | |
| 4 | Subtotal Expense Increase - RAM A | djustment before | e rev | enue taxes | | | | | \$ | 7,856 | |
| 5 | Revenue Tax Factor (Footnote 3) | | | | | | | | | 1.0975 | |
| 6 | O&M RAM (SubTotal Expenses x Rev Tax Factor) | | | | | | | | | 8,622 o Sch A1 | |
| 1 | | | | | | | | | | | |
| 1 | Footnotes: | , T , , C1 | 13.6 | 1.5.2010 | . D 1 (N | 2016 | 0220 | 0.242 | | | |
| | 1: Payroll Taxes per Stipulated Settle Exhibit 2C, page 6, approved | | | | | 2016 | -0328, | \$ 9,342 | | | |

Less: Portion of payroll taxes related to non-BU labor A(57.79% * 9,342)\$Payroll Taxes related to Bargaining Unit labor\$

^A See Schedule C1 for calculation of percentage related to non-BU labor.

| 2: Escalation Rates | | | |
|--|-------------------|----------------------------|---|
| Labor: | 2018 | 2019 | |
| Bargaining Unit Wage Increase | 2.67% | 3.00% | (See HECO-WP-C-001) |
| Less: Labor Productivity Offset | 0.76% | 0.76% | Approved in Final D&O in Docket No. 2008- 0274, page 51, filed on August 31, 2010 |
| Labor Cost Escalation Rate | 1.91% | 2.24% | |
| Calculation of 2018 Compounded Labor Cost Escalat | ion | | |
| 2018 Labor Cost Escalation | | 1.0191 | A (2018 labor escalation plus 1) |
| 2019 Labor Cost Escalation | | 1.0224 | B (2019 labor escalation plus 1) |
| 2018-2019 Compounded Labor Cost Escalation | _ | 1.0419 | C = A * B |
| 2018-2019 Compounded Labor Cost % | | 0.0419 | D = C - 1 |
| | | | |
| Non-Labor: | 2018 | 2019 | |
| Non-Labor: GDP Price Index | 2018 2.10% | 2019 2.10% | (See HECO-WP-C-002) |
| = | 2.10% | | (See HECO-WP-C-002) |
| GDP Price Index | 2.10% | | (See HECO-WP-C-002) A (2018 non-labor escalation plus 1) |
| GDP Price Index Calculation of 2018 Compounded Non-Labor Cost Es | 2.10% | 2.10% | |
| GDP Price Index Calculation of 2018 Compounded Non-Labor Cost Escalation | 2.10% | 2.10% 1.0210 | A (2018 non-labor escalation plus 1) |
| GDP Price Index Calculation of 2018 Compounded Non-Labor Cost Escalation 2018 Non-Labor Cost Escalation 2019 Non-Labor Cost Escalation | 2.10% | 2.10% 1.0210 1.0210 | A (2018 non-labor escalation plus 1) B (2019 non-labor escalation plus 1) |
| GDP Price Index Calculation of 2018 Compounded Non-Labor Cost Escalation 2018 Non-Labor Cost Escalation 2019 Non-Labor Cost Escalation 2018-2019 Compounded Non-Labor Cost Escalation | 2.10% | 1.0210 1.0210 1.0240 | A (2018 non-labor escalation plus 1) B (2019 non-labor escalation plus 1) C = A * B |
| GDP Price Index Calculation of 2018 Compounded Non-Labor Cost Escalation 2018 Non-Labor Cost Escalation 2019 Non-Labor Cost Escalation 2018-2019 Compounded Non-Labor Cost Escalatio 2018-2019 Compounded Non-Labor Cost % | 2.10% | 1.0210 1.0210 1.0240 | A (2018 non-labor escalation plus 1) B (2019 non-labor escalation plus 1) C = A * B |
| GDP Price Index Calculation of 2018 Compounded Non-Labor Cost Escalation 2018 Non-Labor Cost Escalation 2019 Non-Labor Cost Escalation 2018-2019 Compounded Non-Labor Cost Escalation 2018-2019 Compounded Non-Labor Cost % 3: Computation of Revenue Tax Factor | 2.10% | 1.0210 1.0210 1.0240 | A (2018 non-labor escalation plus 1) B (2019 non-labor escalation plus 1) C = A * B |
| GDP Price Index Calculation of 2018 Compounded Non-Labor Cost Escalation 2018 Non-Labor Cost Escalation 2019 Non-Labor Cost Escalation 2018-2019 Compounded Non-Labor Cost Escalation 2018-2019 Compounded Non-Labor Cost % 3: Computation of Revenue Tax Factor Public Service Tax Rate | 2.10% scalation n | 1.0210 1.0210 1.0240 | A (2018 non-labor escalation plus 1) B (2019 non-labor escalation plus 1) C = A * B D = C - 1 |

^{4:} Column d "Previously Approved RAM" is not used as the labor and non-labor escalation is accomplished through the use of a compounded escalation rate in column f, as shown in footnote 2.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKSHEET RATE ADJUSTMENT MECHANISM SUMMARY OF OPERATIONS AND MAINTENANCE LABOR AND NON-LABOR EXPENSE

BY BLOCK OF ACCOUNTS Interim D&O - Docket No. 2016-0328

(\$ in Thousands)

Footnote 1

| | Foor | tnote 1 | Footnote 2 | | | | | |
|---|----------|--------------|----------------------|-----------|--------------|--|--|--|
| | (a) | (b) | (c)=(a)+(b) TOTAL | (d) | (e) | | | |
| DESCRIPTION | BU LABOR | NON-BU LABOR | <u>LABOR</u> | NON-LABOR | <u>TOTAL</u> | | | |
| Production | 21,744 | 13,212 | 34,956 | 44,350 | 79,306 | | | |
| Transmission | 2,420 | 2,933 | 5,353 | 10,454 | 15,807 | | | |
| Distribution | 12,086 | 7,321 | 19,407 | 27,418 | 46,825 | | | |
| Customer Accounts | 8,258 | 3,618 | 11,876 | 8,478 | 20,354 | | | |
| Allowance for Uncoll Accounts | - | - | - | 732 | 732 | | | |
| Customer Service | 134 | 5,582 | 5,716 | 9,936 | 15,652 | | | |
| Administrative & General | 2,406 | 31,769 | 34,175 | 85,583 | 119,758 | | | |
| Customer Benefit Adjustment (Footnote 3) | - | - | - | (10,023) | (10,023) | | | |
| Operation and Maintenance | 47,048 | 64,435 | 111,483 | 176,928 | 288,411 | | | |
| | To Sch C | | | To Sch C2 | X | | | |
| Percentage of Total O&M Labor * amounts may not add due to rounding | 42.20% | 57.79% | 100% | | | | | |

Footnotes:

1 SOURCE: 2017 test year breakdown of BU and non-BU labor obtained from UI Planner Budget files.

2 O&M breakdown below includes fuel and purchase power expenses consistent with the presentation in the Results of Operations.

| | | Footnote 2a | | Footnote 2b | | |
|---|---------|-------------|-----------|-------------|------------|--|
| <u> </u> | | | | ADJUST- | STIPULATED | |
| | LABOR | NON-LABOR | TOTAL | MENT | SETTLEMENT | |
| FUEL | - | 327,609 | 327,609 | | 327,609 | |
| PURCHASE POWER | - | 466,211 | 466,211 | | 466,211 | |
| PRODUCTION | 34,956 | 44,350 | 79,306 | | 79,306 | |
| TRANSMISSION | 5,354 | 10,454 | 15,808 | | 15,808 | |
| DISTRIBUTION | 19,407 | 27,418 | 46,825 | | 46,825 | |
| CUSTOMER ACCOUNTS | 11,876 | 8,478 | 20,354 | | 20,354 | |
| UNCOLLECTIBLE ACCOUNTS | - | 732 | 732 | | 732 | |
| CUSTOMER SERVICE | 5,715 | 9,936 | 15,651 | | 15,651 | |
| ADMIN & GENERAL | 34,265 | 85,945 | 120,210 | (452) | 119,758 | |
| CUSTOMER BENEFIT ADJUSTMENTS | - | - | - | (10,023) | (10,023) | |
| TOTAL | 111,573 | 981,133 | 1,092,706 | (10,475) | 1,082,231 | |
| TOTAL O&M EXPENSE (Excl Fuel & Purch Po | 111,573 | 187,313 | 298,886 | (10,475) | 288,411 | |

- 2a See Order No. 35280, For Approval of General Rate Case and Revised Schedules/Rules, filed on February 9, 2018, in which the Commmission approved the revised schedules or operations and tariff sheets filed January 19, 2018, Exhibit A, Page 1 of 4.
 See Docket No. 2016-0328 Hawaiian Electric 2017 Test Year Rate Case Revised Schedules Resulting from Interim Decision and Order No. 35100 as modified by Order No. 35229 and Order No. 35220, filed January 19, 2018, Exhibit 2, Attachment 1, Page 1 for Labor/Non-Labor breakdown.
- 2b See Order No. 35335, For Approval of General Rate Case and Revised Schedules/Rules, filed on March 9, 2018, in which the Commmission accepted the Parties' Stipulated Settlment on Remaining Issues filed March 5, 2018, Exhibit 2C, Page 1 of 13.
- 3 Customer Benefit Adjustments identified in the Results of Operations have been included as a reduction to O&M non-labor subject to escalation. See Order No. 35545, For Approval of General Rate Case and Revised Schedules/Rules, Appendix A, page 1 of 4, filed on June 22, 2018.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK

Non-Labor Exclusion Adjustment for O&M RAM

(\$ thousands)

| Line No. | Decription | Amount | Reference |
|----------|---|---------|-------------------------------------|
| | (a) | (b) | (c) |
| 1 | Pension Expense | 73,940 | Note 1 |
| 2 | • | | |
| 3 | | | |
| 4 | OPEB Expense | (470) | Note 1 |
| 5 | | | |
| 6 | | | |
| 7 | Total before amounts transferred | 73,470 | |
| 8 | | | |
| 9 | O&M % | 57.43% | See Parties' Stipulated Settlement |
| 10 | (1- transfer rate of 42.57%) | | Letter, filed November 15, 2017, in |
| 11 | | | Docket No. 2016-0328, HECO T-16 |
| 12 | | | Attachment 4, page 1 |
| 13 | Adjustment to Non-Labor O&M Expense | | |
| 14 | for O&M RAM base | 42,194 | |
| 15 | | | |
| 16 | N. I.I. COMP. | 156.000 | |
| 17 | Non-Labor O&M Expense per Interim D&O | 176,928 | Schedule C1 |
| 18 | | | |
| 19 | N. J. L. L. O. O. M. F D f. | | |
| 20 | Non-Labor O&M Expense Base for O&M RAM base | 124 724 | Sahadula C |
| 21 | O&IVI RAIVI Dase | 134,734 | Schedule C |

Note 1: See Parties' Stipulated Settlement Letter, filed November 15, 2017 in Docket No. 2016-0328, Exhibit 1, page 63 for the summary of the pension and OPEB cost the Parties agreed to. In Parties' Stipulated Settlement Letter on Remaining Issues, filed March 5, 2018 in Docket No. 2016-0328, Exhibit 1, page 4, amortization of the excess pension contribution from the test year was reduced to zero. Approved in Final Decision and Order No. 35545, filed on June 22, 2018.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RATE BASE RAM ADJUSTMENT - RETURN ON INVESTMENT

| Line No. | Description (a) | | MOUNTS IN OUSANDS (b) | PERCENT OF TOTAL (c) | COST RATE (d) | POST TAX WEIGHTED EARNINGS REQMTS (e) | INCOME TAX FACTOR (Note 1) | PRETAX WEIGHTED EARNINGS REQMTS (g) | | |
|----------|-----------------------------------|---------|--------------------------------|-------------------------------|---------------------|---------------------------------------|-------------------------------------|-------------------------------------|--|--|
| 1 | ., | CTI | | . , | () | () | () | (8) | | |
| 1 | PUC APPROVED CAPITAL STR | JUIL | KE & COST | <u>S (Note 2):</u> | | | | | | |
| 2 | Short-Term Debt | \$ | 27,770 | 1.18% | 1.75% | 0.02% | 1.000000 | 0.02% | | |
| 3 | Long-Term Debt | | 928,748 | 39.59% | 5.03% | 1.99% | 1.000000 | 1.99% | | |
| 4 | Hybrid Securities | | 28,651 | 1.22% | 7.19% | 0.09% | 1.000000 | 0.09% | | |
| 5 | Preferred Stock | | 21,137 | 0.90% | 5.37% | 0.05% | 1.346835 | 0.07% | | |
| 6 | Common Equity | | 1,339,335 | 57.10% | 9.50% | 5.42% | 1.346835 | 7.31% | | |
| 7 | Total Capitalization | \$ | 2,345,641 | 100.00% | | 7.57% | | 9.47% | | |
| 8 | RAM CHANGE IN RATE BASE | \$000 | (From Sch | edule D1) | | | (| \$ 84,565 | | |
| 9 | PRETAX RATE OF RETURN (Lin | ne 7, 0 | Col g) | | | | | 9.47% | | |
| 10 | PRETAX RETURN REQUIREMENT | | | | | | | | | |
| 11 | REVENUE TAX FACTOR (1/(1-8.885%)) | | | | | | | | | |
| 12 | RATE BASE RAM - RETURN ON | INV | ESTMENT \$ | 000 | | | | \$ 8,789.1 To Sch A1 | | |

Footnotes:

1 Composite Federal & State Income Tax Rate 25.75% See HECO-WP-F-001 Income Tax Factor (1 / 1-tax rate) 1.346835

² See Order No. 35335, For Approval of General Rate Case and Revised Schedules/Rules, filed on March 9, 2018, in which the Commission accepted the Parties' Stipulated Settlement on Remaining Issues filed March 5, 2018, Exhibit 2C, Page 2 of 13. Approved in Final Decision and Order No. 35545 filed June 22, 2018.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RATE BASE RAM ADJUSTMENT - CHANGE IN RATE BASE

| | | HECO | 2017 Test Ye | ar Ra | te Base (Note 2) | Г | H | | | |
|-----------|--|-------------|--------------------|-------|-------------------------------|----------|---------------------------|--------------------------|-----------------------------------|---|
| | | | D.1 | - | Pudgatad Palanaa | | Adjusted | D.M.D. I. I. | | <u> </u> |
| Line No. | Description | | Balance 31/2017 | В | udgeted Balance 12/31/2017 | | Recorded at 12/31/2018 | RAM Projected Amounts | Estimated at 12/31/2019 | |
| Line Ivo. | (a) | | (b) | | (c) | _ | (d) | (e) | (f) | _ |
| | | | | | | | (Note 1) | See Detail Below | | _ |
| 1 2 | Net Cost of Plant in Service, Net of CIAC | \$ | 2,595,452 | \$ | 2,770,695 | \$ | 2,437,105 | \$ 77,804 | \$ 2,514,909 | (Note 3) |
| 3 | Property Held for Future Use Fuel Inventory | | 46,200 | | 46,200 | | - | - | - | |
| 4 | Materials & Supplies Inventories | | 28,427 | | 28,427 | | | | | |
| 5 | Unamort Net ASC 740 Reg Asset | | 70,144 | | 74,887 | | | | | |
| 6 | Unamort EOTP Reg Asset | | 444 | | 89 | | | These Elements | | |
| 7 | CIP CT-1 Reg Asset | | 2,306 | | 1,352 | | | of Rate Base are | | 07 . 5 |
| 8 | Unamort Sys Dev Costs RO Pipeline Reg Asset | | 15,932 4,958 | | 13,496 4,842 | | Not | Updated for RAM Purp | oses | (Note 5) |
| 10 | Pension Tracking | | 97,620 | | 113,828 | | | | | |
| 11 | Contrib in Excess of NPPC | | 6,470 | | 6,470 | | | | | |
| 12 | Total Additions | \$ | 2,867,953 | \$ | 3,060,286 | \$ | 2,718,151 | \$ 77,804 | \$ 2,795,955 | |
| 12 | H CIACICIAC: CWID | 6 | (247.02() | e | (205.124) | e | (20.110) | ¢. | 6 (20.116 | 01 (2) |
| 13 13a | Unamortized CIAC/CIAC in CWIP Developer Advances | \$ | (347,826) | 3 | (395,134) | \$ \$ | (30,110) (21,345) | | \$ (30,110 \$ (21,345 | |
| 14 | Customer Advances | | (3,581) | | (3,925) | Ψ | (21,543) | <u> </u> | ψ (21,3π. | (Note 3) |
| 15 | Customer Deposits | | (12,101) | | (12,005) | | | Not Updated | | (************************************** |
| 16 | Accumulated Def Income Taxes | | (520,643) | | (333,360) | | (282,714) | (4,881) | (287,594 | |
| 17 | ADIT Excess Reg Liability | | - | | (203,950) | | (277,406) | 10,381 | (267,025 | (Note 4), Sch D5 |
| 18 | Unamortized State ITC (Gross) | | (56,323) | | (54,903) | | | | | |
| 19 20 | Unamortized Gain on Sale Pension Reg Liability | | (248) | | (182) | | | Not Updated | | |
| 21 | OPEB Reg Liability | | (2,817) | | (2,331) | | | | | |
| 22 | Total Deductions | \$ | (943,539) | \$ | (1,005,790) | \$ | (685,783) | \$ 5,500 | \$ (680,283 | <u>)</u> |
| 22 | w. t a. t | | 2.004 | | 2 00 4 | | 2.004 | X | 2.00 | _ |
| 23 | Working Cash | | 3,904 | | 3,904 | | 3,904 | Not Updated | 3,904 | |
| 24 | Rate Base at Proposed Rates | \$ | 1,928,318 | | 2,058,400 | \$ | 2,036,272 | | \$ 2,119,576 | |
| 25 26 | Average Rate Base Change in Rate Base | | | \$ | 1,993,359 | | | | \$ 2,077,924 \$ 84,56 5 | |
| 20 | Change in Take Dase | | | | | | | | To Schedule | |
| 27 | Column (e) Projected Changes to Rate Base: | | | | Reference | | Amount \$000 | | | |
| 28 29 | Plant - Baseline Capital Project Additions, N | let of CIAC | | | Schedule D2 Schedule D3 | | 200,583 | | | |
| 30 | Major Project Additions, Net of CIAC Accumulated Depreciation/Amortization Ch | ange | | | Schedule E | | 16,895 (139,674) | | | |
| 31 | Net Plant | unge | | S | um: Lines 28-30 | | 77,804 | | | |
| | | | | | | | | | | |
| 32 | ADIT - Baseline and Major Capital Projects | | | | Schedule F | | (4,881) | | | |
| 33 34 | ADIT - Joint Pole Capital Transfer Price ADIT Excluding Joint Pole | | | , | Note 6 Sum: Line 32-33 | _ | (4,881) | | | |
| 54 | TEST Excitaing some role | | | | Jan. 21110 32 33 | _ | (4,001) | | | |
| 35 | Excess ADIT Reg Liability Amortization | | | | Schedule D5 | | 10,381 | | | |
| | (Plant 282 excess def amort beginning 6/1/20 | 19) | | | | | | | | |
| | Footnotes: | | | | | | | | | |
| 1 | Amounts are recorded, except for the follow | ing adjustm | ents: | | | | | Schedule D4 | | |
| | H F (ID) | | | | Plant in Service | | Acc. Depr. | ADIT | | |
| [A] | Unadjusted Balance Add: | | | \$ | 4,496,539 | \$ | (1,565,762) | \$ (283,658) | | |
| [A] | RWIP | | | | | | 41,901 | | | |
| [A] | Asset Retirement Obligation | | | | | | (4,780) | | | |
| [A] | Reg Liab-Cost of Removal (net salvage) | | | | | | (356,926) | | | |
| | Tenant Improvement Allowance (Sch E) | | | | (14,132) | | 9,824 | | | |
| | Major Project Adjustments: | | | HI | CO-WP-D2-001 | Н | IECO-WP-E-001 | HECO-WP-D4-002 | | |
| | ERP EAM Hardware | | | | (14) | | 3 | 2 | | |
| | Koolau-Wailupe #1 Str 30 P9 Replace Total Adjustments | | | \$ | (142) | ¢ | 7 | \$ 14 \$ 16 | Schedule D4 | |
| | • | | | Ψ | | ъ. | | • | Schedule D4 | |
| | Major Project Interim Recovery Adjustments Schofield Generation Station | <u>:</u> | | HI | CCO-WP-D2-001 (144,744) | Н | IECO-WP-E-001 | HECO-WP-D4-003 1,832 | Schedule D4 | |
| | Total Adjustments | | | s | (144,744) | \$ | | \$ 1,832 | Seneuale D4 | |
| | Joint Pole Capital Transfer Price | | Note 6 | \$ | (24,666) | \$ | - | \$ (904) | | |
| | Adjusted Balance | | | \$ | 4,312,841 | \$ | (1,875,736) | \$ (282,714) | | |
| | | | | | | | | | | |

- 2 See Final Decision and Order No. 35545, For Approval of General Rate Case and Revised Schedules/Rules, filed on June 22, 2018, Exhibit B, Page 1 of 2. Revised for presentation purposes only to properly reflect the Unamortized Net ASC 740 Reg Asset, ADIT, and ADIT Excess Reg Liability balances. No change to Total Average Rate Base.
- 3 Per PowerPlan extract. Effective October 2018, the Company reclassified CIAC to Plant in Service or CWIP consistent with FERC guidelines. In 2018, CIAC has been netted with either Plant in Service or CWIP and Developer Advances (Cash CIAC received from developers, subject to refund) which has been included as a reduction to rate base. See further discussion of the Company's treatment of CIAC at HECO-WP-D1-001.
- 4 As a result of the 2017 Tax Reform Act, Regulatory Liability accounts were created and recorded as of December 31, 2017 to isolate the 2017 excess accumulated deferred taxes resulting from the lower federal tax rate. The bifurcated Regulatory Liabilities are included as a reduction to Rate Base. See further discussion at Schedule F.
- 5 HECO 2017 Test Year Rate Base includes CIS deferred costs in Unamortized System Development Costs. See detail in November 15, 2017, Stipulated Settlement Letter, HECO T-17, Attachment 1, Page 2.
- 6 See Decision and Order No. 35768, Docket No. 2018-0075 filed October 16, 2018. Commission approved the Asset Transfer, Pole Licensing and Amended Joint Pole Agreements and the accounting and ratemaking treatment described in Exhibit E of the Application. The change in ADIT represents the tax effect of the book tax difference on depreciation for the Joint Pole
- [A] SOURCE: Hawaiian Electric Company, Inc. Monthly Financial Report December 2018, filed February 28, 2019.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF BASELINE CAPITAL PROJECTS ADDITIONS, NET OF CIAC

Source: Docket No. 03-0257 General Order No. 7 Plant Additions Annual Reports filed with the PUC dated:

| 35 36 <u>2018 In-Service:</u> PZ.000016/ 37 MPIR-Schoffield Generating Station 2017-0213 PZ.001002 (144,743,542) (P0001576) 38 Joint Pole Capital Transfer Price 2018-0075 PE.005155 (24,665,897) | | Source: Docker 1.01 00 0207 General Gr | 40111017111 | | 3/27/2015 | 3/29/2016 | 3/30/2017 | 3/27/2018 | NOTE (1) |
|--|----------|---|----------------|------------|--------------|--------------|--------------|---------------|---------------|
| Total Plant Additions | Line No. | | | | | | | | |
| Case Non-Unity Plant Additions | | (a) | | | (c) | (d) | (e) | (f) | (f) |
| Adjusted Total Plant Additions East Major Projects: CS2.5 Million Dk1 No. Dsm N | 1 | Total Plant Additions | | | 269,326,250 | 266,537,660 | 241,294,569 | 276,754,129 | 358,703,631 |
| Section Control Cont | 2 | Less: Non-Utility Plant Additions | | NOTE (2) | - | (63) | (3,954) | - | - |
| | 3 | Adjusted Total Plant Additions | | | 269,326,250 | 266,537,597 | 241,290,615 | 276,754,129 | 358,703,631 |
| 6 W8 Boiler Controls Upgrade 2007-1955 Pf.550000 18_503 (70) 8 W7 Controls Upgrade 2009-0195 Pf.750000 (8_237) (5.581) (682) 8 W7 Controls Upgrade 2009-0195 Pf.750000 (8_237) (5.581) (682) 9 2012 In_Service: 14 Facel Substation 2011-0026 V00127 (6.459) 15 Z013 In_Service: 1 | | | | | | | | | |
| FOTP Ph. 2 (Subs-Switch Stations) 2010-0062 Y48500 (7.357) (55.881) (682) | | | | | | | | | |
| WT Controls Upgrade | | | | | | | (500) | | |
| 2012 In-Service: Kapole Substation 2011-0026 Y00127 (6,459) | | | | | | | (682) | | |
| 10 2012 In-Service: | | W / Controls Upgrade | 2009-0195 | P/590000 | (8,237) | (35) | | | |
| Rapole is substation | | 2012 In Sarvice | | | | | | | |
| 2013 In-Service: Pukele 80MVA Taf #3 2011-0156 P0001494 (28,327) 15,611 | | · · | 2011-0026 | Y00127 | (6.459) | | | | |
| 2013 In-Service: | | Tapeter Substation | 2011 0020 | 100127 | (0,157) | | | | |
| Pukcle ROMVA Tsf #3 | | 2013 In-Service: | | | | | | | |
| North South Road 46kV Line | | | 2011-0156 | P0001494 | (28,327) | 15,611 | | | |
| 18 | 15 | Kakaako Makai-Iwilei 25kV DL | 2009-0042 | Y00038 | (485,650) | (496,818) | | 400,000 | |
| 18 | 16 | North South Road 46kV Line | 2008-0070 | Y00119 | | (3,488) | | | |
| Nation Substation 2008-0070 Y00119 (1,218,895) | | | | | | | | | |
| Raloi Sub 46kV & 12kV Distr 2008-0070 V00119 (1,1218,895) (1,1237) (2,596) | | | | | | | | | |
| Raloi Telecomm | | | | | | (925) | | | |
| Company | | | | | | | | | |
| Rakaako Makai Newalo 25k V DL 2009-0042 V00038 (4,988,40) (446,900) (111) 400,000 (418,416) (2,890,742) 476,166 (4,988,440) (4,988,4 | | | | | | | | | |
| Kakaako Makai DOT Queen-Cook 2009-0042 Y00038 (1.961,600) (418,816) (2,890,742) 476,166 | | | | | | (464,000) | (111) | 400,000 | |
| BPT Tank 133 Improvements | | | | | | | | , | |
| 26 | | - | | | | . , , | (2,090,742) | 470,100 | |
| DOT Airport DSG | | | | | | | | | |
| 2016 In-Service: 30 Pukele 80MVA Tsf #1 2011-0156 P0002264 31 (3,839,121) (7,612) 32 2017 In-Service: 33 ERP EAM Hardware 30 PReplace 400003465 34 Koolau-Wailupe #1 Str 30 P9 Replace 40003465 35 2018 In-Service: 36 2018 In-Service: 37 MPIR-Schofield Generating Station 40 PZ.000016/ 38 Joint Pole Capital Transfer Price 40 2018-0075 PE.005155 40 Last Five-Year Average - Plant Additions 41 Last Five-Year Average - Plant Additions 42 ESS: CIAC, including Developer Advances 43 NOTE (3) (31,803,050) (42,140,722) (36,314,281) (59,849,268) (29,568,427) 44 EOTP Ph. 2 (Subs/Switch Stations)-CIAC 45 EOTP Ph. 2 (Subs/Switch Stations)-CIAC 46 Kakaako Makai DOT Queen-Cook-CIAC 47 DOT Airport DSG-CIAC 48 Total CIAC Additions (excluding major projects) 49 Total Net Plant Additions, Net of CIAC (excluding major projects) 40 (3,839,121) (7,612) 41 (2,604,146) 42 (2,684,387) (13,203) 43 (14,4743,542) 44 (2,684,387) (14,4743,542) 45 EOTP Ph. 2 (Subs/Switch Stations)-CIAC 46 (3,839,121) (7,612) 47 (2,604,146) 48 Total CIAC Additions, Net of CIAC (excluding major projects) 49 Total Net Plant Additions, Net of CIAC (excluding major projects) 40 (3,839,121) (7,612) 41 (2,604,146) 42 (2,604,146) 43 (14,4743,542) 44 (2,684,387) (13,203) 45 (144,743,542) 46 (3,882,953) (23,487,307) (27,646,149) (24,665,897) 47 (24,665,897) 48 Total Net Plant Additions, Net of CIAC (excluding major projects) 49 (31,803,050) (42,140,722) (36,314,281) (59,849,268) (29,568,427) 49 (31,759,325) (42,125,490) (33,488,540) (59,849,268) (29,471,825) 40 (31,759,325) (42,125,490) (33,488,540) (59,849,268) (29,471,825) 41 (2,605,897) (21,407,722) (36,314,881) (59,849,268) (29,471,825) 42 (2,605,897) (2,600,807) (| | | | | | | (172,652) | (94,001) | 3,516 |
| Pukele 80MVA Tsf #1 2011-0156 P0002264 (3,839,121) (7,612) | | 1 | | | ())) | (,, | (- / / | (, , , , | - , |
| 2017 In-Service: 32 | 29 | 2016 In-Service: | | | | | | | |
| 2017 In-Service: 32 | 30 | Pukele 80MVA Tsf #1 | 2011-0156 | P0002264 | | | (3,839,121) | (7,612) | |
| Serial Error Error Error PE.000003 (Y00168) PE.000003 (Y00168) PE.000104 (P0003465) PE.000104 (P0003465) PE.000104 (P0003465) PE.000104 (P0003465) PE.000104 (P0003465) PE.000104 (P0003465) PE.000106 PE.0001076 PE.0001076 PE.0001076 PE.001576 PE.001002 (P0001576) PE.00155 PE.0 | 31 | | | | | | | | |
| Ser Fam Hardware 2014-0170 (Y00168) (Z,604,146) | 32 | 2017 In-Service: | | | | | | | |
| Care PE-000104 PE-000105 PE-000104 PE-000104 PE-000104 PE-000104 PE-000104 PE-000104 PE-000104 PE-000104 PE-000104 PE-00010576 P | 33 | ERP EAM Hardware | 2014-0170 | | | | | (2.604.146) | |
| Roolau-Wailupe #1 Str 30 P9 Replace | | | | | | | | (=,000,1,000) | |
| 2018 In-Service: PZ.000016/ Station PZ.000016/ PZ.001002 | 34 | Koolau-Wailupe #1 Str 30 P9 Replace | | | | | | (2,684,387) | (13,203) |
| MPIR-Schofield Generating Station PZ.000016/ PZ.001002 PZ.001002 PZ.001002 PZ.001002 PZ.001002 PZ.001002 PZ.001002 PZ.00100576 PE.005155 P | 25 | | | (P0003465) | | | | | |
| PZ.000016/ PZ.000106/ PZ.001002 PZ.0010576) PZ.0010576) PZ.0010576 P | | 2018 In Sarvice | | | | | | | |
| MPIR-Schofield Generating Station 2017-0213 PZ.001002 (P0001576) (144,743,542) | 30 | 2018 III-SCIVICC. | | PZ 000016/ | | | | | |
| Company Comp | 37 | MPIR-Schofield Generating Station | 2017-0213 | | | | | | (144.743.542) |
| Total Net Plant Additions (excluding major projects) 239,412,448 263,882,953 234,387,307 272,640,149 189,284,505 Last Five-Year Average - Plant Additions Less: CIAC, including Developer Advances NOTE (3) (31,803,050) (42,140,722) (36,314,281) (59,849,268) (29,568,427) Less: CIAC, including Developer Advances NOTE (3) (31,803,050) (42,140,722) (36,314,281) (59,849,268) (29,568,427) EOTP Ph. 2 (Subs/Switch Stations)-CIAC 2010-0062 Y48500 43,725 15,232 718 Kakaako Makai DOT Queen-Cook-CIAC 2009-0042 Y00038 2,825,023 DOT Airport DSG-CIAC 2008-0329 P0001370 96,602 Total CIAC Additions (excluding major projects) (31,759,325) (42,125,490) (33,488,540) (59,849,268) (29,471,825) Total Net Plant Additions, Net of CIAC (excluding major projects) 207,653,123 221,757,463 200,898,767 212,790,881 159,812,680 Last Five-Year Average - Plant Additions, Net of CIAC | | 3 | | | | | | | , , , , , |
| 40 41 Last Five-Year Average - Plant Additions 42 43 Less: CIAC, including Developer Advances 44 EOTP Ph. 2 (Subs/Switch Stations)-CIAC 2010-0062 Y48500 43,725 15,232 718 46 Kakaako Makai DOT Queen-Cook-CIAC 2009-0042 Y00038 2,825,023 47 DOT Airport DSG-CIAC 2008-0329 P0001370 48 Total CIAC Additions (excluding major projects) 49 Total Net Plant Additions, Net of CIAC (excluding major projects) 40 Total Net Plant Additions, Net of CIAC (excluding major projects) 41 Last Five-Year Average - Plant Additions, Net of CIAC 42 299,921,472 43 (31,803,050) (42,140,722) (36,314,281) (59,849,268) (29,568,427) 44 (29,568,427) 45 EOTP Ph. 2 (Subs/Switch Stations)-CIAC 2010-0062 Y48500 43,725 15,232 718 46 Kakaako Makai DOT Queen-Cook-CIAC 2009-0042 Y00038 47 DOT Airport DSG-CIAC 2008-0329 P0001370 48 Total CIAC Additions (excluding major projects) 49 (31,759,325) (42,125,490) (33,488,540) (59,849,268) (29,471,825) 49 (29,568,427) 40 (29,568,427) 41 (29,568,427) 41 (29,568,427) 42 (29,568,427) 43 (29,568,427) 44 (29,568,427) 45 (29,568,427) 46 (29,568,427) 47 (20,000) 48 (20,000) 48 (20,000) 49 (20,000) 40 | 38 | Joint Pole Capital Transfer Price | 2018-0075 | PE.005155 | | | | | (24,665,897) |
| Last Five-Year Average - Plant Additions 239,921,472 | 39 | Total Net Plant Additions (excluding major | projects) | | 239,412,448 | 263,882,953 | 234,387,307 | 272,640,149 | 189,284,505 |
| 42 43 Less: CIAC, including Developer Advances NOTE (3) (31,803,050) (42,140,722) (36,314,281) (59,849,268) (29,568,427) 44 45 EOTP Ph. 2 (Subs/Switch Stations)-CIAC 2010-0062 Y48500 43,725 15,232 718 46 Kakaako Makai DOT Queen-Cook-CIAC 2009-0042 Y00038 47 DOT Airport DSG-CIAC 2008-0329 P0001370 48 Total CIAC Additions (excluding major projects) (31,759,325) (42,125,490) (33,488,540) (59,849,268) (29,471,825) 49 50 Total Net Plant Additions, Net of CIAC (excluding major projects) 207,653,123 221,757,463 200,898,767 212,790,881 159,812,680 51 52 Last Five-Year Average - Plant Additions, Net of CIAC | | | | | | | | | |
| 43 Less: CIAC, including Developer Advances NOTE (3) (31,803,050) (42,140,722) (36,314,281) (59,849,268) (29,568,427) 44 45 EOTP Ph. 2 (Subs/Switch Stations)-CIAC 2010-0062 Y48500 43,725 15,232 718 46 Kakaako Makai DOT Queen-Cook-CIAC 2009-0042 Y00038 2,825,023 47 DOT Airport DSG-CIAC 2008-0329 P0001370 48 Total CIAC Additions (excluding major projects) (31,759,325) (42,125,490) (33,488,540) (59,849,268) (29,471,825) 49 50 Total Net Plant Additions, Net of CIAC (excluding major projects) 207,653,123 221,757,463 200,898,767 212,790,881 159,812,680 51 52 Last Five-Year Average - Plant Additions, Net of CIAC | | Last Five-Year Average - Plant Additions | | | | | | = | 239,921,472 |
| 44 45 EOTP Ph. 2 (Subs/Switch Stations)-CIAC 2010-0062 Y48500 43,725 15,232 718 46 Kakaako Makai DOT Queen-Cook-CIAC 2009-0042 Y00038 47 DOT Airport DSG-CIAC 2008-0329 P0001370 48 Total CIAC Additions (excluding major projects) (31,759,325) (42,125,490) (33,488,540) (59,849,268) (29,471,825) 49 50 Total Net Plant Additions, Net of CIAC (excluding major projects) 207,653,123 221,757,463 200,898,767 212,790,881 159,812,680 51 52 Last Five-Year Average - Plant Additions, Net of CIAC | | | | | | | | | |
| 45 EOTP Ph. 2 (Subs/Switch Stations)-CIAC 2010-0062 Y48500 43,725 15,232 718 46 Kakaako Makai DOT Queen-Cook-CIAC 2009-0042 Y00038 47 DOT Airport DSG-CIAC 2008-0329 P0001370 48 Total CIAC Additions (excluding major projects) (31,759,325) (42,125,490) (33,488,540) (59,849,268) (29,471,825) 49 50 Total Net Plant Additions, Net of CIAC (excluding major projects) 207,653,123 221,757,463 200,898,767 212,790,881 159,812,680 51 52 Last Five-Year Average - Plant Additions, Net of CIAC | | Less: CIAC, including Developer Advances | | NOTE (3) | (31,803,050) | (42,140,722) | (36,314,281) | (59,849,268) | (29,568,427) |
| 46 Kakaako Makai DOT Queen-Cook-CIAC 2009-0042 Y00038 2,825,023 47 DOT Airport DSG-CIAC 2008-0329 P0001370 96,602 48 Total CIAC Additions (excluding major projects) (31,759,325) (42,125,490) (33,488,540) (59,849,268) (29,471,825) 50 Total Net Plant Additions, Net of CIAC (excluding major projects) 207,653,123 221,757,463 200,898,767 212,790,881 159,812,680 51 52 Last Five-Year Average - Plant Additions, Net of CIAC 200,582,583 | | EOTER DI 2 (C. 1 /C. '+ 1 C++') CIA C | 2010 0062 | 3740500 | 42 725 | 15 222 | 710 | | |
| 47 DOT Airport DSG-CIAC 2008-0329 P0001370 96,602 48 Total CIAC Additions (excluding major projects) (31,759,325) (42,125,490) (33,488,540) (59,849,268) (29,471,825) 49 Total Net Plant Additions, Net of CIAC (excluding major projects) 207,653,123 221,757,463 200,898,767 212,790,881 159,812,680 51 Last Five-Year Average - Plant Additions, Net of CIAC 200,582,583 | | | | | 43,723 | 13,232 | | | |
| 48 Total CIAC Additions (excluding major projects) (31,759,325) (42,125,490) (33,488,540) (59,849,268) (29,471,825) 49 50 Total Net Plant Additions, Net of CIAC (excluding major projects) 207,653,123 221,757,463 200,898,767 212,790,881 159,812,680 51 52 Last Five-Year Average - Plant Additions, Net of CIAC (200,582,583) | | • | | | | | 2,623,023 | | 96 602 |
| 49 50 Total Net Plant Additions, Net of CIAC (excluding major projects) 51 52 Last Five-Year Average - Plant Additions, Net of CIAC 53 CIAC (excluding major projects) 54 207,653,123 221,757,463 200,898,767 212,790,881 159,812,680 55 200,582,583 | | 1 | | 10001370 | (31.759.325) | (42.125.490) | (33,488,540) | (59.849.268) | |
| 50 Total Net Plant Additions, Net of CIAC (excluding major projects) 207,653,123 221,757,463 200,898,767 212,790,881 159,812,680 51 52 Last Five-Year Average - Plant Additions, Net of CIAC 200,582,583 | | roun erro raunions (excluding major pro | jeets) | | (01,:05,020) | (12,120,130) | (00,100,010) | (0),010,200) | (2),1/1,020) |
| 51 52 Last Five-Year Average - Plant Additions, Net of CIAC 200,582,583 | | Total Net Plant Additions, Net of CIAC (exc | luding major i | orojects) | 207,653,123 | 221,757,463 | 200,898,767 | 212,790,881 | 159,812,680 |
| | | | - • • | = : | | - | - | | |
| To Sch D1 | 52 | Last Five-Year Average - Plant Additions, N | let of CIAC | | | | | _ | |
| | | | | | | | | _ | To Sch D1 |

NOTE (1): Amounts per HECO-WP-D2-002 and the Hawaiian Electric Companies' Exemption From and Modification of General Order No. 7 Paragraph No. 2.3(g), Relating to Capital Improvements Capital Projects Completed in 2017, in Docket No. 03-0257, filed on March 27, 2019.

NOTE (2): Source: UI Planner Budget files: Actuals Scenario. Adjustment to remove non-utility plant additions from utility plant. Chapin UG Duct Line is a non-utility asset. It is a contributed asset that was given to the Company. It is not being used and there are currently no plans to use it.

NOTE (3): See HECO-WP-D2-001 for line 47 - 2018 Major Project CIAC additions, HECO-WP-D2-003 for 2018 CIAC Additions, HECO-WP-D2-004 for 2014 to 2017 CIAC Additions and WP-D1-001 for treatment of CIAC.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF MAJOR CAPITAL PROJECT ADDITIONS, NET OF CIAC

| Line No. | Description (a) | PUC Docket Reference (b) | Estimated In Service Date (c) | Plant Addition Amount (d) | CIAC Amount (e) |
|----------|----------------------------------|-------------------------------------|-------------------------------|---------------------------|-----------------|
| | (4) | (0) | (6) | (u) | (6) |
| | AES-CEIP #2 138kV OH Trans | Docket No. 2016-0439 | | | |
| 1 | Line Relocation | (Decision & Order dated 03/02/2018) | Feb-19 | 3,007,232 | |
| 2 | | UI Planner Budget files | | | |
| | | Docket No. 2016-0416 | | | |
| 3 | Ala Wai Canal-46kV Relocation | (Decision & Order dated 09/01/2017) | Jun-19 | 13,910,207 | |
| 4 | | UI Planner Budget files | | | |
| | | Docket No. 2009-0042 | | | |
| 5 | Kakaako Makai | (Decision & Order dated 06/12/2009) | Apr-14 | | (22,683) |
| 6 | | UI Planner Budget files | | | |
| 7 | Total Major Capital Projects Qua | lifying for 2019 RAM, Net of CIAC | | \$ 16,917,439 | \$ (22,683) |
| 8 | | | | To Sch D1 | \$16,894,756 |

Source: HECO-WP-D3-001

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF ADJUSTED RECORDED DEFERRED INCOME TAXES

| Line | | | DR/(CR) | DR/(CR) | DR/(CR) Total | |
|------|--|-----------------|-----------------------------------|--------------|------------------|------------|
| No. | NARUC Account | Reference | Federal ADIT | State ADIT | ADIT | |
| | (a) | (b) | (c) | (d) | (e) | |
| 1 | Recorded Deferred Income Tax Balances December 31, 2018 Recorded Balances | | | | | |
| 2 | Depreciation Related Account 282 | HECO-WP-D4-001 | (208,764,869) | (35,223,942) | (243,988,811) | |
| 3 | Other Deferred Income Taxes | HECO-WP-D4-001 | (33,950,451) | (5,718,989) | (39,669,440) | |
| 4 | Total Recorded Deferred Income Taxes | | (242,715,320) | (40,942,931) | (283,658,251) | To Sch D1 |
| | | | | | To HECO | D-WP-H-001 |
| 5 | Adjustments to Recorded Balances: | | | | | |
| 6 | ADIT on Major Project excess depreciation | HECO-WP-D4-002 | 15,698 | 898 | 16,596 | |
| 7 | ADIT on Major Project Interim Recovery | HECO-WP-D4-003 | 1,404,184 | 427,943 | 1,832,127 | To Sch D1 |
| 8 | Total Adjustments to Recorded ADIT Balan | ces | 1,419,882 | 428,841 | 1,848,723 | To Sch D1 |
| 9 | Adjusted Recorded ADIT Balances -12/31/18 | 1 | (241,295,438) | (40,514,090) | \$ (281,809,528) | To Sch D1 |
| 10 | 282 ADIT adjusted for ADIT on Major Project excess depreciation | Line 2 + Line 6 | (208,749,171) To HECO-WP-F1-00 | 03 | | |

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF ADJUSTED RECORDED EXCESS ADIT REGULATORY LIABILITY

| | | | DR/(CR) Balance | DR/(CR) | DR/(CR) | DR/(CR) Balance | | | Est Bal |
|------|------------------------|-----------|--------------------|---|--------------|----------------------|------|--------------|-----------------|
| Line | NARUC Account | Reference | at 12/31/17 | Adjustments | Amortization | at 12/31/18 | Life | Amortization | at 12/31/19 |
| | (a) | (b) | (c) | | (d) | (e) = $(c) + (d)$ | (f) | (g) | (h) = (e) + (g) |
| 1 | Plant 282 - protected | | (215,702,497) | (7,803,210) | | (223,505,707) | 40 | 5,587,643 | (220,246,249) |
| 2 | Plant 283 - unprotecte | ed | (35,065,867) | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1,668,881 | (33,396,986) | 15 | 2,337,723 | (31,059,263) |
| 3 | Nonplant 283 - unpro | | (23,918,454) | | 3,415,029 | (20,503,425) | 5 | 4,783,679 | (15,719,746) |
| | Total Excess ADIT | | | | | | | | |
| 4 | Regulatory Liability | | (274,686,818) | (7,803,210) | 5,083,910 | (277,406,118) | | 12,709,045 | (267,025,258) |
| | | | Note 1 | | | To Sch D1 | • | To Sch E | To Sch D1 |
| | | | | | | | | | Note 3 |

Reconciliation of 12/31/18 Balance:

| Regulatory Liability in GL | GL#25400023/2 | 4 | (278,155,753) | | |
|----------------------------|---------------|------------|---------------|--|--|
| Regulatory Asset in GL | GL#18673900 | 34,112,667 | | | |
| 2018 Amortization | | 587,116 | | | |
| | | | 34,699,783 | | |
| | | | (243,455,970) | | |
| Add: FAS 109 | Note 1 | | (33,950,008) | | |
| Total Excess ADIT | | | (277,405,978) | | |
| Total Excess ADIT | Line 4 | | (277,406,118) | | |
| Remaining Difference | | | 140 | | |

Note 1: The 12/31/17 balances represent the amortization base presented in Docket 2016-0328 Hawaiian Electric's 2017 Test Year Rate Case Revised Attachment to the Parties' Stipulated Settlement on Remaining Issues, Attachment 2A, filed March 8, 2018 However, this amortization base inadvertently excluded reclassifications recorded at December 31, 2017 between the 2017 unprotected plant 283 excess net regulatory liability and the portion of ASC 740 regulatory assets/liabilities offsetting the related excess deferred income taxes.

Note 2: Amortization began 4/14/2018.

Note 3: Line 1: Plant 282-protected excess deferred balance calculated as follows: [col (e)/col (f)] * (7 months/12 months) + col (e) Amortization begins on 6/1/2019.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF DEPRECIATION & AMORTIZATION RAM ADJUSTMENT

| | | Recorded Depreciable/Amort. | Adjustments | Adjusted Depreciable/Amort. | PUC Approved | |
|----------|----------------------------|-----------------------------|------------------------------|-----------------------------|--------------------|------------------------|
| Line No. | FERC Account | Balance (Footnote 3) | (Footnote 1) | Balance | Accrual Rate | Annual Accrual |
| | (a) | (b) | (c) | (d) | (e) | (f) |
| 1 | Depreciable Plant | | | | | |
| 2 | 311 | 107,116,270 | | 107,116,270 | 0.01600 | 1,713,860 |
| 3 | 312 | 407,080,257 | (3,423,000) | 403,657,257 | 0.02030 | 8,194,242 |
| 4 | 314 | 194,394,996 | (3,123,000) | 194,394,996 | 0.01540 | 2,993,683 |
| 5 | 315 | 83,448,693 | | 83,448,693 | 0.02430 | 2,027,803 |
| 6 | Tot - Steam | 792,040,216 | (3,423,000) | 788,617,216 | 0.01885 | 14,929,589 |
| 7 | | | | | | |
| 8 | 341 | 38,255,922 | | 38,255,922 | 0.00770 | 294,571 |
| 9 | 342 | 17,647,714 | | 17,647,714 | 0.02580 | 455,311 |
| 10 | 343 | 212,348,035 | (142,147,612) | 70,200,423 | 0.03260 | 2,288,534 |
| 11 | 344 | 32,411,015 | | 32,411,015 | 0.01010 | 327,351 |
| 12 | 345 | 34,684,516 | | 34,684,516 | 0.02510 | 870,581 |
| 13 | Tot - Gas Turb | 335,347,202 | (142,147,612) | 193,199,590 | 0.01263 | 4,236,348 |
| 14 | | | | | | |
| 15 | Tot - Prod | 1,127,387,418 | (145,570,612) | 981,816,806 | | 19,165,937 |
| 16 | **** | | | | | |
| 17 | 3501 | 3,033,447 | (2.002.400) | 3,033,447 | - | - |
| 18 | 352 | 41,371,948 | (2,003,490) | 39,368,458 | 0.01600 | 629,895 |
| 19 | 353 | 316,099,319 | (352,190) | 315,747,129 | 0.01860 | 5,872,897 |
| 20 21 | 354 | 15,336,208 | | 15,336,208 | 0.01480 | 226,976 |
| 21 | 355 | 377,095,780 | (141.071) | 377,095,780 | 0.03240 | 12,217,903 |
| 23 | 356 357 | 184,909,083 60,113,518 | (141,971) | 184,767,112 60,113,518 | 0.03270 0.01590 | 6,041,885 955,805 |
| 24 | 358 | 66,198,742 | | 66,198,742 | 0.01390 | 1,145,238 |
| 25 | 359 | 3,235,054 | | 3,235,054 | 0.01730 | 48,202 |
| 26 | Tot - Transm | 1,067,393,099 | (2,497,651) | 1,064,895,448 | 0.02543 | 27,138,801 |
| 27 | Tot - Transm | 1,007,373,077 | (2,477,031) | 1,004,023,440 | 0.02545 | 27,130,001 |
| 28 | 3601 | 2,599,051 | | 2,599,051 | 0.02340 | 60,818 |
| 29 | 361 | 26,265,151 | | 26,265,151 | 0.01080 | 283,664 |
| 30 | 362 | 273,453,197 | | 273,453,197 | 0.02020 | 5,523,755 |
| 31 | 363 | 2,957,666 | | 2,957,666 | 0.03740 | 110,617 |
| 32 | 364 | 245,168,525 | (24,665,897) | 220,502,628 | 0.03390 | 7,475,039 |
| 33 | 365 | 105,897,935 | , , , , | 105,897,935 | 0.04190 | 4,437,123 |
| 34 | 366 | 270,101,616 | | 270,101,616 | 0.02190 | 5,915,225 |
| 35 | 367 | 405,492,451 | | 405,492,451 | 0.04980 | 20,193,524 |
| 36 | 368 | 220,837,260 | | 220,837,260 | 0.05200 | 11,483,538 |
| 37 | 369.1 | 59,534,914 | | 59,534,914 | 0.05250 | 3,125,583 |
| 38 | 369.2 | 174,898,002 | | 174,898,002 | 0.04070 | 7,118,349 |
| 39 | 370 | 40,383,030 | | 40,383,030 | 0.02660 | 1,074,189 |
| 40 | Tot - Distr | 1,827,588,798 | (24,665,897) | 1,802,922,901 | 0.03655 | 66,801,423 |
| 41 | T . T . D | 2 004 001 007 | (25.162.540) | 2.067.010.240 | | 02.040.224 |
| 42 | Tot - T & D | 2,894,981,897 | (27,163,548) | 2,867,818,349 | | 93,940,224 |
| 43 | 200 | 67.040.620 | | (7.040.620 | 0.02450 | 1.664.545 |
| 44 45 | 390 Tot - General | 67,940,630 67,940,630 | | 67,940,630 | 0.02450 0.02450 | 1,664,545 1,664,545 |
| 46 | Tot - General | 07,940,030 | - | 07,940,030 | 0.02430 | 1,004,343 |
| 47 | Sub-Total | 4,090,309,945 | (172,734,160) | 3,917,575,785 | | 114,770,706 |
| 48 | Sub-Total | 4,090,309,943 | (172,734,100) | 3,917,373,763 | | 114,770,700 |
| 49 | 3902 (King) | 8,011,075 | | 8,011,075 | 0.03010 | 241,114 |
| 50 | 3902 (CPP) | 2,115,809 | | 2,115,809 | 0.00417 | 8,814 |
| 51 | 3902 (Waterhouse) | 1,517,450 | | 1,517,450 | 0.00000 | - |
| 52 | 3902 (Hon Cl) | 523,097 | | 523,097 | 0.07824 | 40,929 |
| 53 | 3902 (ASB) | 1,463,127 | | 1,463,127 | 0.06133 | 89,738 |
| 54 | 3902 (Shinco) | 939,475 | | 939,475 | 0.00000 | · - |
| 55 | 3902 (PPP) | 372,940 | | 372,940 | 0.11111 | 41,438 |
| | 3902 (Pauahi) | 50,376 | | 50,376 | 0.33333 | 16,792 |
| 56 | 3902 (Tenant Allowance) | 14,131,757 | (14,131,757) | | - | |
| 57 | Tot- LH Impr | 29,125,106 | (14,131,757) (14,131,757) | 14,993,349 | | 438,824 |
| 58 | _ | | | | | |
| 59 | 392 | 59,063,238 | | 59,063,238 | 0.06130 | 3,620,576 |
| 60 | | | | | | |
| 61 | Utility Total Depreciation | 4,178,498,289 | (186,865,917) | 3,991,632,372 | 0.02844 | 118,830,107 |
| | | | | | | |

| | Recorded | | Adjusted | PUC | | |
|----------|------------------------------|----------------------------|----------------|--------------------------|------------------------|---------------------------|
| T . NT | FFDC | Depreciable/Amort. | Adjustments | Depreciable/Amort. | Approved | |
| Line No. | FERC Account | Balance (Footnote 3) | (Footnote 1) | Balance | Accrual Rate | Annual Accrual |
| 61 | (a) | (b) | (c) | (d) | (e) | (f) |
| 62 | Amortizable Plant 316 | 26 201 659 | | 26 201 659 | 0.05000 | 1 214 502 |
| 62 | Tot - Steam | 26,291,658 26,291,658 | | 26,291,658 26,291,658 | 0.05000 0.05000 | 1,314,583 |
| 64 | Tot - Steam | 20,291,038 | - | 20,291,038 | 0.03000 | 1,514,565 |
| 65 | 346 | 20.226.915 | | 20.226.915 | 0.05000 | 1.016.241 |
| | | 20,326,815 | | 20,326,815 | | 1,016,341 |
| 66 67 | Tot - Gas Turb | 20,326,815 | - | 20,326,813 | 0.05000 | 1,016,341 |
| 68 69 | Tot - Prod | 46,618,473 | - | 46,618,473 | 0.05000 | 2,330,924 |
| 70 | 3911 | 30,764,654 | (14,146) | 30,750,508 | 0.20000 | 6,150,102 |
| 71 | 3912 | 3,172,052 | (14,140) | 3,172,052 | 0.10000 | 317,205 |
| 72 | 3913 | 16,599,312 | | 16,599,312 | 0.06670 | 1,107,174 |
| 73 | 3913 | | | | 0.04000 | |
| 73 74 | 393 394 | 1,478,752 | | 1,478,752 | | 59,150 |
| | | 39,001,211 | | 39,001,211 | 0.04000 | 1,560,048 |
| 75 | 395 | 879,317 | | 879,317 | 0.06670 | 58,650 |
| 76 | 396 | 4,479 | (240.250) | 4,479 | 0.05560 | 249 |
| 77 | 397 | 130,589,670 | (240,250) | 130,349,420 | 0.06670 | 8,694,306 |
| 78 | 398 | 8,483,472 | (251206) | 8,483,472 | 0.06670 | 565,848 |
| 79 | Tot - General | 230,972,919 | (254,396) | 230,718,523 | 0.08015 | 18,512,733 |
| 80 | | | | | | |
| 81 | | | | | | |
| 82 | | | | | | |
| 83 | Utility Total Amortization | 277,591,392 | (254,396) | 277,336,996 | 0.07509 | \$ 20,843,656 |
| 84 | | | | | | |
| 85 | TOTAL RAM DEPRECIAT | | N | Lii | ne 61 + Line 83 | \$ 139,673,763 |
| 86 | LESS: Vehicle Depreciation | | | | Line 59 Schedule D5 | \$ (3,620,576) |
| 87 | LESS: ADIT Excess Amort | | | | (12,709,045) | |
| 88 | LESS: Depreciation & Amo | rtization in Current Rever | nues | | Footnote 2 | \$ (120,665,585) |
| 89 | | | | | | |
| 90 | RAM Adjustment for Depre | eciation & Amortization | | | | \$ 2,678,556 |
| 91 | RAM Adjustment for CIAC | Amortization | | | Note 5 | \$ - |
| 92 | Total RAM Adjustment for | Depreciation & Amortiza | tion | | | \$ 2,678,556 |
| 93 | Times: Factor for Revenue | Γaxes | | Scl | nedule C Line 5 | 1.0975 |
| 94 | | | | | | |
| 95 | RAM DEPRECIATION & | AMORTIZATION | | | | \$ 2,939,716 To Sch A1 |
| Footnote | | | | | | 10 5011 111 |
| | Amounts are recorded (in \$ | 000s), except for the | | Plant in Service | | |
| 1 | following adjustments (see I | HECO-WP-D2-001): | <u>-</u> | From D1 | | |
| | ERP EAM Hardware | | HECO-WP-D2-001 | \$ (14) | Linked from Scl | h D1 |
| | Koolau-Wailupe #1 Str 30 | P9 Replace | | (142) | | |
| | MPIR - Schofield Generati | ng Station | \downarrow | (144,744) | | |
| | | | | | See Decision ar | nd Order No. |
| | | | | | 35768, Docket N | No. 2018-0075 |
| | Joint Pole Capital Transfer | Price | HECO-WP-D1-002 | (24,666) | filed October 16 | |
| | Tenant Improvement Allow | | | (14,132) | | |
| | ARO Assets included in De | | GL# 10100001 | (3,423) | \downarrow | |
| | Total | • | | \$ (187,121) | • | |
| 2 | Depreciation & Amortization | on in Current Revenues*: | | Depr/Amort Expense | | |

*See Order No. 35335, in Docket No. 2016-0328, For Approval of General Rate Case and Revised Schedules/Rules, filed on March 9, 2018, in which the Commission accepted the Parties' Stipulated Settlement on Remaining Issues filed March 5, 2018, HECO T-25, Attachment 1, Page 1 and the Revised Attachment to the Parties Stipulated Settlement on Remaining Issues, filed March 8, 2018, HECO T-26, Attachment 2A, Page 1. Approved in Final Decision and Order No. 35545, filed June 22, 2018.

Note 5

139,686,000

128,974,585

(8,309,000)

To Line 88

120,665,585

(3,590,000) (7,1<u>21,415)</u>

3 Per Accounting records, does not include land amounting to \$40,449,426 as of December 31, 2018.

Total Depreciation

LESS: Vehicle Depreciation (A/C 392)

Total Depreciation & Amortization in Current Revenues

LESS: Amortization of Excess ADIT Total Depreciation in Current Revenues

ADD: CIAC Amortization

- 4 Amount represents tenant improvement allowances paid by the lessors and excluded from the RAM calculation.
- 5 Effective October 2018, the Company reclassified CIAC to Plant in Service or CWIP consistent with FERC guidelines. Amounts shown in this Schedule represent balances net of CIAC.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF CHANGE IN DEFERRED INCOME TAXES

| Line No. | NARUC Account | Reference | Projected ADIT Change |
|-----------|--|----------------|--------------------------|
| Line Ivo. | | | |
| | (a) | (b) | (c) |
| 1 | State Tax Depreciation | Schedule F1 | 9,813,741 |
| 2 | Amortization of Excess Deferreds (Note 3) | Schedule D5 | 10,380,860 |
| 3 | Subtotal | | 20,194,601 |
| 4 | Effective Federal Tax Rate | HECO-WP-F-001 | 19.7368% |
| 5 | Federal Deferred Tax on State Tax Depreciation | | 3,985,777 |
| 6 | Add back State Tax Depreciation | Line 1 | (9,813,741) |
| 7 | Federal Tax Depreciation | Schedule F1 | 9,813,741 |
| 8 | Federal/State Difference | 501104410111 | - |
| 9 | Tax Rate on Federal Only Adjustment | HECO-WP-F-001 | 21% |
| 10 | Federal Deferred Tax Adjustment | | - |
| 11 | Total Federal Deferred Taxes Before Proration | | 3,985,777 |
| 12 | Proration Adjustment | HECO-WP-F1-003 | (319,803) |
| 13 | Total Federal Deferred Taxes After Proration | | 3,665,974 |
| | STATE DEFERRED TAXES | | |
| 14 | State Tax Depreciation | Line 1 | 9,813,741 |
| 15 | Amortization of Excess Deferreds (Note 3) | Line 2 | 10,380,860 |
| 16 | Subtotal | | 20,194,601 |
| 17 | Effective State Tax Rate | HECO-WP-F-001 | 6.0150% |
| 18 | Total State Deferred Taxes | | 1,214,713 |
| | | | |
| 19 | TOTAL FED AND STATE DEFERRED TAXES | | 4,880,686 |
| | | | To Sch D1 |

NOTE 1: In accordance with the tariff, the change in ADIT in the RAM year is based on the temporary book/tax depreciation differences associated with the RAM year plant additions (major capital projects and baseline plant additions). It does not include any estimated ADIT related to the repairs deduction or CIAC on RAM year plant additions.

NOTE 2: The change in ADIT includes the tax effect of the amortization of the regulatory liability associated with the excess deferred taxes resulting from the tax rate change from the Tax Cuts and Jobs Act of 2017. This is consistent with the inclusion of the regulatory liability and the related amortization in rate base RAM.

NOTE 3: The amortization of excess deferreds was adjusted from Schedule D5 to properly reflect the ending balance of ADIT at 12/31/2019. The amortization of the Plant 282 excess deferred amortization begins on 6/1/2019; the 12/31/2019 balance therefore reflects 7/12ths of this component in the ending ADIT balance.

| Calculation of Excess Deferred Amortization | |
|---|-----------------------|
| Plant 282 - protected | 5,587,643 Schedule D5 |
| Proration Percentage (7 months/12 months) | 58.33% |
| | 3,259,458 |
| Plant 283 - unprotected | 2,337,723 Schedule D5 |
| Nonplant 283 - unprotected | 4,783,679 Schedule D5 |
| Amortization of Excess Deferreds, as Adjusted | 10,380,860 |
| | Schedule D1 |

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TAX DEPRECIATION

| | | | иг | CO-WP-F1-00 | 12 | | | | | | | | | |
|----------|----------------------|------|------------------------|----------------|----------------|--|--------------|--------------------|----------------------|-------------------------|---|----------------------|-----------------|----------------------|
| Line No. | | LIFE | PROJECTS P | | TOTAL | PROJECTS PR | OGRAMS | S TOTAL | | | | | | |
| <u> </u> | • | (a) | (b) | (c) | (d) | (e) | (f) | (g) | | | | | | |
| | | () | (-) | (-) | (-) | (-) | (-) | (8) | | | | | | |
| 1 | Computers/PV | 5 | 6,092 | | 6,092 | 2.54% | | 2.54% | | | | | | |
| 2 | Communication | 20 | 5,920 | | 5,920 | 2.47% | | 2.47% | | | | | | |
| 3 | Off/Furn/Tools | 7 | 5,022 | | 5,022 | 2.09% | | 2.09% | | | | | | |
| 4 | Distribution | 20 | 130,472 | | 130,472 | 54.38% | | 54.38% | | | | | | |
| 5 | Land | - | 816 | | 816 | 0.34% | | 0.34% | | | | | | |
| 6 | Non-Steam Production | 15 | 3,713 | | 3,713 | 1.55% | | 1.55% | | | | | | |
| 7 | Steam Production | 20 | 22,905 | | 22,905 | 9.55% | | 9.55% | | | | | | |
| 8 | Structural | 39 | 3,265 | | 3,265 | 1.36% | | 1.36% | | | | | | |
| 9 | Transmission | 20 | 21,834 | | 21,834 | 9.10% | | 9.10% | | | | | | |
| 10 | Transmission | 15 | 34,674 | | 34,674 | 14.45% | | 14.45% | | | | | | |
| 11 | Vehicles | - | 5,209 | | 5,209 | 2.17% | | 2.17% | | | | | | |
| 10 | TOTAL | | 220.022 | | 220.022 | 100.000/ | 0.000/ | 100.000/ | | | | | | |
| 12 | TOTAL | | 239,922 From Sch D2 | - | 239,922 | 100.00% | 0.00% | 100.00% | | | | | | |
| | | | From Scn D2 | | 5 yr | 2.54% | | 2.54% | | | | | | |
| | | | | | 7 yr | 2.09% | | 2.09% | | | | | | |
| | | | | | 7 yr 15 yr | 16.00% | | 16.00% | | | | | | |
| | | | | | 20 yr | 75.50% | | 75.50% | | | | | | |
| | | | | | 39 yr | 1.36% | | 1.36% | | | | | | |
| | | | | | Land | 0.34% | | 0.34% | | | FED | FED | STATE | STATE |
| | | | | | Vehicles | 2.17% | | 2.17% | | | YR 1 | YR 1 | YR 1 | YR 1 |
| | | | | | Total | 100.00% | 0.00% | | | BASIS | DEPR RATE | | | TAX DEPR |
| | | | | | | | | | • | | | | | |
| | | | | | | | | Vintage 2019 - F | Regular Depreciation | | | | | |
| | | | Basis subject | to regular dep | reciation | (Total less am | ounts subje | ect to 40% bonus) | | | | | | |
| | | | | | - | 2.540/ | | 2.540/ | - | 5 211 510 | 20.000/ | 1 042 204 | 20.000/ | 1 0 42 204 |
| | | | | | 5 yr | 2.54% | | 2.54% | 5 yr | 5,211,519 | 20.00% | 1,042,304 | 20.00% | 1,042,304 |
| | | | | | 7 yr | 2.09% 16.00% | | 2.09% 16.00% | 7 yr | 4,296,167 32,838,900 | 14.29% 5.00% | 613,922 1,641,945 | 14.29% 5.00% | 613,922 1,641,945 |
| | | | | | 15 yr | 75.50% | | 75.50% | 15 yr | 154,952,011 | 3.75% | | 3.75% | |
| | | | | | 20 yr 39 yr | 1.36% | | 1.36% | 20 yr 39 yr | 2,793,107 | 1.177% | 5,810,700 32,875 | 1.177% | 5,810,700 32,875 |
| | | | | | 59 yı | 97.49% | 0.00% | 97.49% | 39 yı | 2,793,107 | 1.1///0 | 32,673 | 1.1///0 | 32,673 |
| | | | | | | 97.4970 | 0.0070 | 97.49/0 | | | | | | |
| | | | | TOTA | AL ASSETS | 97.49% | 0.00% | 97.49% | | | | | | |
| | | | | | | - | | | | | | | | |
| | | | | | | Net Depreciab | le Baseline | Plant Adds | | 200,091,704 | _ | 9,141,746 | | 9,141,746 |
| | | | | | | | | | • | | - | | | |
| | | | | | | | | om Schedule F2 | | 16,917,439 | | 671,995 | | 671,995 |
| | | | | | | Total Deprecia | able Plant A | Adds | | 217,009,143 | | 9,813,741 | | 9,813,741 |
| | | | | | | | | | | | | Fed Tax Depre | riation | St. Tax Depreciation |
| | | | | | | to Schedule F | | | | to Schedule F | | | | |
| | | | | | | Reconciliation from Baseline Plant Adds to Net Depreciable Plant Adds: | | | | | | | | |
| | | | | | | Baseline Capital Projects Plant Adds (rounded) 239,922,000 Schedule D2 | | | | | | | | |
| | | | | | | | | | IECO-WP-F1-001 pg 1 | 34,676,093 | < <supported b<="" td=""><td>y Special Study</td><td>each year.</td><td></td></supported> | y Special Study | each year. | |
| | | | | | | | let plant ad | | (0/ 200 200 550) | 205,245,907 | | | | |
| | | | | | | L | ess: Land | and Vehicles (2.46 | 5% x 209,209,559) | 5,154,203 | - | | | |
| | | | | | | | | | | 200,091,704 | - | | | |

NOTE (1) The Tax Cut and Jobs Act removed bonus depreciation for public utility property.

NOTE (2) The numbers in columns b, c, d are rounded to the nearest thousand.

NOTE (3) Totals may not add exactly due to rounding.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK TAX DEPRECIATION ON MAJOR CAPITAL PROJECTS ADDITIONS

| | | | | Estimated | | |
|----------|--|-------------------|------------|-----------------|---------------|--------------------------|
| Line No. | Description | | PUC Docket | In Service Date | Amount | |
| · | (a) | (b) | (c) | (d) | (e) | _ |
| 1 | Assumed Value of 2019 Major Capital Projects | Plant Items | | | \$ 16,917,439 | Schedule D3 |
| 2 | Assumed Value of 2019 Major Capital Projects | - CIAC nontaxable | | | \$ - | Schedule D3 |
| 3 | Assumed Value of 2019 Major Capital Projects | - Total | | | \$ 16,917,439 | - = |
| | | | FED | FED | STATE | STATE |
| | Tax Classification of | | YR 1 | YR 1 | YR 1 | YR 1 |
| 4 | Major Capital Project Additions | Tax Basis | DEPR RATE | TAX DEPR | DEPR RATE | TAX DEPR |
| 5 | 5 yr | - | 20.00% | - | 20.00% | - |
| 6 | 7 yr | - | 14.29% | - | 14.29% | - |
| 7 | 15 yr | 3,007,232 | 5.00% | 150,362 | 5.00% | 150,362 |
| 8 | 20 yr | 13,910,207 | 3.75% | 521,633 | 3.75% | 521,633 |
| 9 | 39 yr | - | | | | |
| 10 | Land | - | | | | |
| 11 | Vehicles | - | | | | |
| | Total | \$ 16,917,439 | | \$ 671,995 | | \$ 671,995 |
| | | To Sch F1 | | To Sch F1 | • | To Sch F1 |

^{*} Adjustment only for non-taxable CIAC.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK CIAC SUMMARY

| Line | | | Unamortized | CIAC |
|------|-------------|-----------|-------------|--------------|
| No. | Description | Reference | CIAC | Amortization |
| | (a) | (b) | (c) | (d) |

Schedule not applicable.

See HECO-WP-D1-001 for further discussion on the Company's treatment of CIAC within the Annual Decoupling filing.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK EARNINGS SHARING CALCULATIONS

All Amounts \$000 (Except %)

| | | | | | king Basis Return on Equity | | | | |
|----------|---|-----------------|--------------|-----|-----------------------------|----|-----------------------|---------|-------------|
| No. | Description | Referen | ce | Оре | erating Income | | Rate Base | _ | of Return |
| | (a) | (b) | | | (c) | | (d) | | (e) |
| 1 | Reported Operating Income before | HECO-WP-H-009 & | | \$ | 134,181 | \$ | 2,109,963 | | |
| | ratemaking adjustment | HECO-WI-H-001 | | Ψ | 134,101 | Ψ | 2,107,703 | | |
| 1a | Settlement of prior Joint Pole Accounts Receivable | Note 3 | | | 697 | | | | |
| 2 | Ratemaking Adjustments to Line 1: | | | | | | | | |
| 2a | Incentive Compensation Expenses (net of tax) | HECO-WP-H-002 | | | 4,073 | | | | |
| 2b | Discretionary and Other Expenses Not Recoverable (net of tax) | HECO-WP-H-002 | | | 1,052 | | | | |
| 2c | Amortization of investment income differential | HECO-WP-H-003 | | | 185 | | | | |
| 2d | Income tax on items to be replaced by synchronized interest | HECO-WP-H-003 | | | (12,461) | | | | |
| 2e | Special Medical Needs Program discount (net of tax) | HECO-WP-H-005 | | | 102 | | | | |
| 2f | Performance Incentive Mechanism (net of tax) | HECO-WP-H-006 | | | 360 | | | | |
| 2g | Final Test Year Refund (net of tax) | HECO-WP-H-007 | | | 32 | | | | |
| 3 | Ratemaking Basis Amounts - Post Tax | Sum Lines 1 & 2 | | \$ | 128,221 | \$ | 2,109,963 | | |
| 4 | Ratemaking Capitalization | | Balances | | Ratios | | Cost Rate | Weig | hted Cost |
| 5 | Short-Term Debt (12 mo. Avg) | | \$ 88,868 | | 3.68% | | 2.54% | 8 | 0.09% |
| 6 | Long-Term Debt (Simple Avg) | | \$ 939,810 | | 38.92% | | 5.03% | | 1.96% |
| 7 | Hybrid Securities (Simple Avg) | | \$ 28,758 | | 1.19% | | 7.16% | | 0.09% |
| 8 | Preferred Stock (Simple Avg) | | \$ 21,192 | | 0.88% | | 5.36% | | 0.05% |
| 9 | Common Equity (Simple Avg) | _ | \$ 1,335,921 | | 55.33% | | 9.50% | | 5.26% |
| 10 | Total Capitalization | HECO-WP-H-004 | \$ 2,414,549 | | 100.00% | | | | 7.45% |
| 11 | Line 3 Rate Base Amount | | | | | \$ | 2,109,963 | | |
| 12 | Weighted Cost of Debt (Sum Lines 5-7) | | | | | _ | 2.14% | | |
| 13 | Synchronized Interest Expense Income Tax Factor (Note 1) | | | | | \$ | 45,153 1.346801347 | | |
| 13a | Synchronized Interest Expense, net of tax | | | | | \$ | 33,526 | | |
| 14 | Post Tax Income Available for Preferred & Common (Line 3 - Line | 13a) | | | | | | \$ | 94,695 |
| 17 | Less: Preferred Income Requirement (Line 8 Weighted Cost times R | tate Base) | | | | | | | 1,055 |
| 18 | Income Available for Common Stock | | | | | | | \$ | 93,640 |
| 19 | Ratemaking Equity Investment (Line 9 Ratio times Rate Base) | | | | | | | | 1,167,400 |
| 20 | Return on Equity for Decoupling Earnings Sharing (Line 18/Line 19 |)) | | | | | | | 8.02% |
| 21 | Earnings Sharing Revenue Credits: | | Basis Points | | | | | | |
| 22 | Achieved ROE (basis points) | | 802 | | | | | | |
| 23 | Authorized Return (basis points) | _ | 950 | | | | | | |
| 24 | ROE for sharing (basis points) | | - | | | | | | |
| 25 | Sharing Grid per RAM Provision | | First 100 bp | N | Next 200 bp | A | ll over 300 bp | Ratepay | er Total |
| 26 | Distribution of Excess ROE (basis points) | | 0 | • | 0 | | 0 | -r-J | |
| 27 | Ratepayer Share of Excess Earnings | | 25% | | 50% | | 90% | | |
| 28 | Ratepayer Earnings Share - Basis Points | - | - | | - | | - | | - |
| 29 | Revenue Credit per Basis Point (Note 2) | | | | | | | \$ | 173 |
| 30 | Earnings Sharing Revenue Credits (thousands) | | | | | | | | 0 |
| Footnote | vc. | | | | | | | To So | ch A Line 5 |
| 1 | Composite Federal & State Income Tax Rate | | | | 25.75% | | | | |
| - | Income Tax Factor (1 / 1-tax rate) | | | | 1.346801347 | | | | |
| 2 | Ratemaking Equity Investment (line 19) | | | \$ | 1 167 400 | | | | |
| 2 | Basis Point = 1/100 of a percent | | | Ф | 1,167,400 0.01% | | | | |
| | Earnings Required per Basis Point (thousands) | | | S | 116.74 | | | | |
| | Times: Income Tax Conversion Factor | | | Ψ | 1.346801347 | | | | |
| | Pretax Income Required per Basis Point (thousands) | | | \$ | 157 | | | | |
| | | | | | | | | | |
| | Times: Revenue Tax Conversion Factor | | | | 1.0975 | | | | |

³ Per Docket No. 2018-0075, Decision and Order No. 35768, the Commission approved the Asset Transfer, Pole Licensing and Amended Joint Pole agreements. The settlement recovery of prior joint pole accounts receivables previously written-off was recorded to interest income (and excluded from Operating Income) in 2018. Upon further consideration, the recovery should have been recorded to Uncollectible Accounts (904) and included in Operating Income in 2018. (Taxes on the Joint Pole interest income was already included in Operating Income as of December 31, 2018.) Accordingly, an upward adjustment of \$696,636 is being made to Operating Income in the earnings sharing mechanism calculation.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK PUC-ORDERED MAJOR OR BASELINE CAPITAL PROJECTS CREDITS

| Line | | | |
|------|-------------|-----------|--------------|
| No. | Description | Reference | Amount \$000 |
| | (a) | (b) | (c) |
| | | | |

This Schedule has not been developed yet and will be developed only when/as needed.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RAM CAP

| Line No. | Description | Reference | Amount \$000 | | |
|----------|---|-----------------|--------------|--|--|
| | (a) | (b) | (c) | | |
| 1 | Last Rate Order Target Annual Revenues | Schedule B1 | 599,974 | | |
| 2 | 2018 RAM Cap Increase excluding Exceptional & Other Matters | | | | |
| | (net of Revenue Tax) | Note 2 | 12,599 | | |
| 3 | 2018 Target Revenues Subject to Escalation | Line 1 + Line 2 | 612,573 | | |
| 4 | 2019 GDP Price Index | HECO-WP-C-002 | 2.10% | | |
| 5 | 2019 RAM Cap Increase Excluding Exceptional & Other Matters | | 12,864 | | |
| 6 | RAM Cap for 2018 RAM Revenue Adjustment | Line 2 | 12,599 | | |
| 7 | RAM Cap for 2019 RAM Revenue Adjustment | Line 5 + Line 6 | 25,463 | | |
| 8 | Revenue Tax Factor (1/(1-8.885%)) | | 1.0975 | | |
| 9 | RAM Cap for 2019 RAM Revenue Adjustment | Line 7 x Line 8 | 27,946 | | |
| | | | To Sch A1 | | |

Note 1 <u>Target Revenues</u>:

See Decision and Order No. 32735, filed March 31, 2015, paragraph 107, page 94:

"The RAM Cap shall be based on the Target Revenues determined in accordance with the RBA and RAM tariffs as provided below ("Basis"), times the cumulative annually compounded increase(s) in GDPPI for intervening years, adjusted to include applicable revenue taxes."

The RAM basis for the calculation of the RAM Revenue Adjustment cap shall be the target revenues determined in accordance with the RBA tariff based on the results of the Company's most recent interim or final rate case decision.

Note 2 See Transmittal No. 18-01 (Decoupling) - Hawaiian Electric Company RBA Rate Adjustment, Schedule J for 2018 RAM Revenue Adjustment Cap of \$13,828 (\$12,599 net of revenue tax).

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK EXCEPTIONAL & OTHER MATTERS

| Line No. | Description | Reference | Amount \$000 |
|----------|---|-----------|-------------------|
| | (a) | (b) | (c) |
| 1 | None | | |
| 2 | 2019 Revenue Adjustment for Exceptional & Other Matters | | \$ - To Sch A1 |

Note 1 <u>Exceptional and Other Matters:</u>

See Order No. 32735, filed March 31, 2015, paragraph 107, page 94 - 95:

"The Basis used in determining the RAM Cap shall be adjusted to exclude or otherwise appropriately account for adjustments for the recovery of revenues for previously explicitly stipulated and approved exceptional matters or other matters specifically ordered by the commission, which shall, in any event, be recovered fully without respect to any limitations resulting from application of the RAM Cap."

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK MAJOR PROJECT INTERIM RECOVERY

| Line No. | Description | Am | ount \$000 | |
|----------|--------------------------------------|-------------|------------|-------------|
| | (a) | | (c) | |
| 1 | Schofield Generating Station | Schedule L1 | \$ | 18,051 |
| 2 | Docket No. 2017-0213 | | | |
| 3 | Revenue Tax Factor (1/(1-8.885%)) | | | 1.0975 |
| 4 | Major Project Interim Recovery Total | | \$ | 19,811 |
| | | | To Sch | B1, line 15 |

Note: Per Notice Transmittal to Update Target Revenue for Schofield Generating Station through the Major Project Interim Recovery Adjustment Recovery Mechanism, filed February 7, 2019, Transmittal No. 19-01 effective January 1, 2019. See Schedule L1.

(586) \$

6.014 \$

6,014

Note 5

Rev Tax Adj \$

Incremental \$

Prorated MPIR for Year 1 excl Rev Tax \$

(761) \$

1,787

Note 6

7.800 \$ 18.051

(1,760)

10,250

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK

REVENUE REQUIREMENT AND DETERMINATION OF MAJOR PROJECT INTERIM RECOVERY $\underline{ \text{MPIR PROJECT} }$

\$ in thousands

| | | | | | | | | nding | | | | |
|----------|--|-----------------|------|------------|---------|---------|-------|-------------|----------|---------|--------|-----------|
| | | | | ecorded at | 20 | 019 | | alance | Aver | age | | |
| Line No. | Description | Reference | 12 | 2/31/2018 | | | as of | 12/31/19 | Bala | | | MPIR |
| | (a) | (b) | | (c) | (| (d) | | (e) | (f)=((c) | +(e))/2 | | (g) |
| | Return on Investment - Schofield Generating Station | | | | | | | | | | | |
| 1 | Gross Plant in Service (not to exceed PUC approved amount) | HECO-WP-L-001 | | 141,570 | | - | | 141,570 | | 1,570 | | |
| 2 | Accum Depreciation | HECO-WP-L-001 | | - 111.550 | | (4,586) | | (4,586) | | 2,293) | | |
| 3 | Net Cost of Plant in Service | | | 141,570 | | (4,586) | | 136,984 | 13 | 9,277 | | |
| 4 | Fuel Inventory - Avoided | Note 3 | | (1,534) | | _ | | (1,534) | (| 1,534) | | |
| 5 | M&S Inventory | Note 3 | | 100 | | - | | 100 | | 100 | | |
| 6 | Total Additions | | | (1,434) | | - | | (1,434) | (| 1,434) | | |
| 7 | CIAC | Not Applicable | | | | _ | | _ | | _ | | |
| 8 | ADIT | HECO-WP-L-002 | | (8,653) | | (1,540) | | (10,193) | 0 | 9,423) | | |
| 9 | State ITC | HECO-WP-L-002 | | (4,124) | | 412 | | (3,712) | , | 3,918) | | |
| 10 | Total Deductions | 11200 111 2 002 | | (12,777) | | (1,128) | | (13,905) | | 3,341) | | |
| | | | | (-=,,,,, | | (-,) | | (,) | (| -,, | | |
| 11 | Total Rate Base | | \$ | 127,359 | \$ | (5,713) | \$ | 121,646 | 12 | 4,502 | | |
| 12 | Average Rate Base | | | | | | | | \$ 12 | 4,502 | | |
| 13 | Rate of Return (grossed-up for income taxes, before revenue ta | Note 4 | | | | | | | | 9.47% | | |
| 14 | Annualized Return on Investment (before revenue taxes) | | | | | | | | | | \$ | 11,790 |
| 15 | Depreciation Expense (Note 1) | HECO-WP-L-001 | | | | | | | | 4,586 | | |
| 16 | Operating & Maintenance Expense | Note 2 | | | | | | | | 2,087 | | |
| 16a | Prior year reconciliation of O&M to actuals | Note 2 | | | | | | | | - | | |
| 17 | Amortization of State ITC | see line 6 | | | | | | | | (412) | | |
| 18 | Lease Rent Expense | Not Applicable | | | | | | | | - | | |
| 19 | Other Expense | Not Applicable | | | | | | | | - | | |
| 20 | Total Expenses | | | | | | | | | | \$ | 6,260 |
| 21 | Total Major Project Interim Recovery | | | | | | | | | | \$ | 18,051 |
| 22 | Revenue Tax Factor (1/(1-8.885%)) | | | | | | | | | | | 1.0975 |
| 23 | Annualized Revenue for Major Project Interim Recovery | | | | | | | | | | \$ | 19,810.8 |
| | | | | | | | | | | T | o Sc | h B & B1 |
| | | | | | | | Rec | onciliation | ı to Sch | edule E | 31 (Ir | ıfo Only) |
| | | | | | | _ | Jul | - Sep 18 | | | | 2019 |
| | | | Annu | alized Rev | enue fo | or MPIR | \$ | 6,600 | \$ | 8,561 | \$ | 19,811 |

Note 1: Depreciation expense is recorded beginning in the year after an asset is placed in service, therefore, depreciation expense is zero in year 1. The revenue requirement for year 2 and thereafter will include depreciation expense at existing, approved depreciation accrual rates at the time of filing.

Note 2: Total O&M expense is estimated to cost \$1.787 million annually for year 1 (\$2.087 million annually during the interim period thereafter), as referenced within Attachment 1 - SGS Business Case Revenue Requirement Update and approved in Order No. 35953, filed December 14, 2018.

- Note 3: Decision and Order No. 35556 dated June 27, 2018 in Docket No. 2017-0213.
- Note 4: Transmittal No. 18-01 (Decoupling) Hawaiian Electric's RBA Rate Adjustment, Schedule D, filed May 29, 2018.
- Note 5: MPIR Revenues effective July 1, 2018 approved in Order No. 35647, issued August 15, 2018 in Docket No. 2017-0213.
- Note 6: MPIR Revenues effective October 1, 2018 filed December 21, 2018 in Docket No. 2017-0213.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK 2018 SERVICE QUALITY PIMS

| | 2018 Annual Total * | 2018 Target ** | Variance | Deadband ** | Max | ximum \$ ** | (Per | nalty) / Reward Amount |
|-----------------------------|------------------------|-------------------|-------------|-------------|--------|---------------|---------|------------------------------|
| - | (a) | (b) | (c)=(a)-(b) | (d) | IVIA | (e) | 1.0 * (| $\frac{(b-a)/d)*e+e}{(b-a)}$ |
| Service Quality: | (-) | (-) | (-) (-) (-) | (-) | | (-) | (| ((): -)) |
| Normalized T&D SAIFI | | | | | | | | |
| Without Exclusion | 1.253 | 1.112 | 0.141 | 0.089 | \$ | 2,244,112 | \$ | (1,306,645) |
| With Exclusion | 1.238 | 1.112 | 0.126 | 0.089 | \$ | 2,244,112 | \$ | (929,827) |
| Normalized T&D SAIDI | | | | | | | | |
| Without Exclusion | 111.94 | 99.10 | 12.84 | 9.033 | | 2,244,112 | \$ | (946,492) |
| With Exclusion | 106.41 | 99.10 | 7.31 | 9.033 | | 2,244,112 | \$ | - |
| Call Center Performance (F | Excludes Blocke | d Calls) | | | | | | |
| , | 83.97% | 79.66% | 4.31% | 3.00% | \$ | 897,645 | \$ | 391,972 |
| Phase 1 Renewable Energy RF | | | | | | | | |
| First Allocation | *** | | | | | | \$ | 591,854 |
| | | | | Total | Witho | out Exclusion | ı \$ | (1,269,311) |
| | | | | To | tal Wi | ith Exclusior | \$ | 53,998 |
| | | | | | | | | To Sch A |

Notes:

Exclusion represents 25kV Proactive Work, filed in Transmittal No. 18-05, Hawaiian Electric's Letter Request for Exclusion of 25kV Splice Replacement Work from Performance Incentive Mechanism Provision's SAIDI and SAIFI 2018 Calculation, filed December 18, 2018.

- * See HECO-WP-M-002
- ** See HECO-WP-M-001
- *** See HECO-WP-M-005

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK ON-BILL FINANCING COST RECOVERY

| | | Note 1 | | Cost Pager | ery (excluding | Pov Tov) | Cost Recovery (including Rev Tax) | | | | |
|------|---------|----------|---------------|------------|----------------|-----------|-----------------------------------|----------------|--------------|--|--|
| | | Note 1 | | Cost Recov | ery (excluding | (Rev Tax) | , , | | | | |
| | | | | | | | Total | 2019 | 2020 | | |
| | | Customer | | Total | 2019 | 2020 | Recovery | Recovery | Recovery | | |
| Line | Company | Count | Allocation | Recovery | Recovery | Recovery | with Rev Tax | with Rev Tax | with Rev Tax | | |
| | | a | b = a/total a | c = \$2,3 | 330,408 allowe | ed x b | | d = c * 1.0975 | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 1 | HE | 305,456 | 66% | 1,537,150 | 768,575 | 768,575 | 1,687,022 | 843,511 | 843,511 | | |
| | | , | | To Sch B | To Sch A | , | ,,- | To Sch B1 | ,- | | |
| | | | | To Sen B | 10 Sen A | | | TO SER DI | | | |
| 2. | HL | 85,758 | 19% | 431,561 | 215,780 | 215,781 | 473,638 | 236,819 | 236,819 | | |
| 2 | пь | 03,730 | 1970 | 431,301 | 213,780 | 213,781 | 4/3,036 | 230,019 | 230,819 | | |
| | | | | | | | | | | | |
| _ | | | | | | | | | | | |
| 3 | ME | 71,875 | 16% | 361,697 | 180,849 | 180,848 | 396,963 | 198,481 | 198,482 | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 4 | Total | 463,089 | 100% | 2,330,408 | 1,165,204 | 1,165,204 | 2,557,623 | 1,278,811 | 1,278,812 | | |

Note 1: Statistical Report as of December 31, 2018.

Note 2: See Decision and Order No. 36212, Docket No. 2017-0102, filed March 11, 2019, pages 18-19. The Commission allowed the Companies to recover Program implementation costs over a period of two years, commencing with the 2019 RBA Rate Adjustment which will, if there are no major issues with the standard RBA Review Transmittal process, become effective on June 1, 2019.

Hawaiian Electric Company, Inc. Sales Forecast for June 2019 to May 2020 in GWh

| | | | | 2019 | | | | | | 2020 | | | |
|-------|------------|------------|------------|------------|-------|-------|-------|-------|------------|-------|------------|-------|--------------|
| • | <u>Jun</u> | <u>Jul</u> | <u>Aug</u> | <u>Sep</u> | Oct | Nov | Dec | Jan | <u>Feb</u> | Mar | <u>Apr</u> | May | <u>Total</u> |
| R | 126.7 | 141.7 | 151.2 | 146.2 | 143.0 | 131.9 | 130.4 | 132.1 | 118.6 | 120.1 | 116.7 | 121.7 | 1,580.3 |
| G | 24.2 | 25.6 | 26.5 | 25.3 | 26.0 | 23.9 | 24.1 | 22.6 | 22.8 | 23.9 | 23.7 | 24.6 | 293.2 |
| J | 148.0 | 159.0 | 160.8 | 157.3 | 158.4 | 145.6 | 139.3 | 139.4 | 140.8 | 141.7 | 144.9 | 152.0 | 1,787.2 |
| P | 233.6 | 250.5 | 261.0 | 246.4 | 249.4 | 230.6 | 225.1 | 219.6 | 214.0 | 223.5 | 225.2 | 232.1 | 2,811.0 |
| F | 1.8 | 1.9 | 1.7 | 1.6 | 1.6 | 1.4 | 1.4 | 1.3 | 1.3 | 1.5 | 1.3 | 1.4 | 18.2 |
| Total | 534.3 | 578.7 | 601.2 | 576.8 | 578.4 | 533.4 | 520.3 | 515.0 | 497.5 | 510.7 | 511.8 | 531.8 | 6,489.9 |

Source: Hawaiian Electric Company, Inc. February 2019 Sales Forecast Update.

Hawaiian Electric Company, Inc. Adjustment For Prior Year RBA Accrual Recovery of 12/31/16 RBA Balance

| | | 2018 | | | | | | |
|---|------------|-------------|-------------|--------------|-----------|-------------------|-------------------|--|
| | • | January | February | March | April | May | Total | |
| Billed RBA Revenues | Note 1 | 11,581,297 | 10,784,945 | 5,161,437 | 3,718,306 | 3,653,460 | 34,899,445 | |
| Net Unbilled Revenues | Note 1 | (834) | (3,556,154) | (1,491,331) | 45,447 | 121,360 | (4,881,511) | |
| Total Billed + Unbilled | | 11,580,464 | 7,228,791 | 3,670,106 | 3,763,752 | 3,774,820 | 30,017,934 | |
| x % Share for RBA | Note 2 & 3 | 31.9352% | 63.5519% | 100.0327% | 100.0327% | 100.0327% | | |
| RBA Revenues (Recovery of 12/31/16 RBA balance) | | 3,698,239 | 4,594,033 | 3,671,308 | 3,764,985 | 3,776,056 | 19,504,621 | |
| | | < | S | chedule B2 | | | \longrightarrow | |
| Less: Revenue Taxes | 0.08885 | (328,589) | (408,180) | (326,196) | (334,519) | (335,503) | (1,732,987) | |
| RBA Revenues (Recovery of 12/31/16 RBA balance) | | 3,369,650 | 4,185,853 | 3,345,112 | 3,430,466 | 3,440,553 | 17,771,634 | |
| net of Revenue Taxes | | | | Schedule B - | | \longrightarrow | | |

^{*} Differences are due to rounding

Note 1: RBA rate adjustment revenues per the Billed reports and Unbilled reports include both RBA and RAM revenues. Therefore, an allocation % is utilized to determine RBA revenues.

Note 2: RBA Rate Adjustment Allocation for January 1, 2018 to February 15, 2018 is per Transmittal No. 17-02 (Decoupling) - RBA Rate Adjustment (filed March 31, 2017), Schedule A, Note (1). RBA Rate Adjustment Allocation for February 16, 2018 to May 31, 20018 is per Hawaiian Electric Revised Schedules Resulting from Interim Decision and Order No. 35100 as modified by Order No. 35229, and Order No. 35220, Exhibit 7, filed on January 19, 2018, which was approved by Order No. 35280, issued on February 9, 2018. See Note 3 below for prorated % share for RBA for February 2018.

Note 3: Prorated % Share for RBA by day resulting from 2017 Test Year Interim Rates, effective February 16, 2018, per Docket No. 2016-0328 - Hawaiian Electric 2017 Test Year Rate Case Hawaiian Electric Revised Schedules Resulting from Interim Decision and Order No. 35100 as modified by Order No. 35229 and Order No. 35220, Exhibit 7, filed on January 19, 2018. As approved by the Commission in Order No. 35280, Approving Revised Schedules of Operations and Tariff Sheets, filed on February 9, 2018.

| _ | RBA % | No of Days | Prorated RBA % | ó |
|---------------|-----------|------------|----------------|---|
| Feb 1-Feb 15 | 31.9352% | 53.6% | 17.1081% | |
| Feb 16-Feb 28 | 100.0327% | 46.4% | 46.4438% | |
| | | | 63.5519% | |

Hawaiian Electric Company, Inc. Adjustment For Prior Year RBA Accrual Recovery of 12/31/17 RBA Balance

| | | | | | 20 | 18 | | | |
|---|---------|-------------|-----------|-----------|-------------|-----------|-----------|-------------------|-------------------|
| | | June | July | August | September | October | November | December | Total |
| Billed RBA Revenues | Note 1 | 4,701,823 | 5,771,562 | 6,185,543 | 6,034,935 | 6,400,115 | 5,842,574 | 5,503,361 | 40,439,912 |
| Net Unbilled Revenues | Note 1 | 990,752 | 364,534 | 81,590 | (85,985) | (137,876) | (175,257) | (57,177) | 980,581 |
| Total Billed + Unbilled | | 5,692,575 | 6,136,096 | 6,267,133 | 5,948,950 | 6,262,238 | 5,667,317 | 5,446,183 | 41,420,493 |
| x % Share for RBA | Note 2 | 79.6227% | 79.6227% | 79.6227% | 79.6227% | 79.6227% | 79.6227% | 79.6227% | |
| RBA Revenues (Recovery of 12/31/17 RBA balance) | | 4,532,582 | 4,885,725 | 4,990,061 | 4,736,715 | 4,986,163 | 4,512,471 | 4,336,398 | 32,980,115 |
| | | | | | Schedule B2 | | | | \longrightarrow |
| Less: Revenue Taxes | 0.08885 | (402,720) | (434,097) | (443,367) | (420,857) | (443,021) | (400,933) | (385,289) | (2,930,284) |
| RBA Revenues (Recovery of 12/31/17 RBA balance) | | 4,129,862 | 4,451,628 | 4,546,694 | 4,315,858 | 4,543,142 | 4,111,538 | 3,951,109 | 30,049,831 |
| net of Revenue Taxes | | | | | Schedule B | | | \longrightarrow | |

^{*} Differences are due to rounding

Note 1: RBA rate adjustment revenues per the Billed reports and Unbilled reports include both RBA and RAM revenues. Therefore, an allocation % is utilized to determine RBA revenues.

Note 2: RBA Rate Adjustment Allocation for June 1, 2018 - May 31, 2019 is per Transmittal No. 18-01 (Decoupling) - RBA Rate Adjustment (Filed May, 29, 2018), Schedule A, Note (1).

Hawaiian Electric Company, Inc. Bargaining Unit Wage Increase per Collective Bargaining Agreements

| | Wage Incre | eases: | 1/1/2014 | 3.00% | (Note 1) | | | | |
|------|---|--|--|---|---|----------------------------------|--|--|--|
| | (non-con | npounded) | 1/1/2015 | 3.00% | (Note 1) | | | | |
| | | | 1/1/2016 | 3.25% | (Note 1) | | | | |
| | | | 1/1/2017 | 3.00% | (Note 1) | | | | |
| | | | 1/1/2018 | 3.00% | (Note 1) | | | | |
| | | | 1/1/2010 | 2.000/ | Q1 (Q) | | | | |
| | | | | 1/1/2019 3.00% (Note 2) | | | | | |
| | | | 1/1/2020 | 3.00% | (Note 2) | | | | |
| | | | 1/1/2021 | 3.00% | (Note 2) | | | | |
| | | | | | | | | | |
| | | | Increase | Wage Rate | Labor Cost | | | | |
| _ | Increase effective | | Amount | | | ion Rate | | | |
| | | | | | | | | | |
| _ | | _ | (a) | (b) or | | c) | | | |
| _ | | | (a) | (b) or prev (b) + (a) | , | ev (b) -1 | | | |
| 1.00 | 3 00% | 1/1/2014 | . , | prev (b) + (a) | , | * | | | |
| 1.00 | 3.00% 3.00% | 1/1/2014 1/1/2015 | 0.0300 0.0300 | | , | * | | | |
| 1.00 | | | 0.0300 | prev (b) + (a) 1.0300 | (b) / pro | ev (b) -1 | | | |
| 1.00 | 3.00% | 1/1/2015 | 0.0300 0.0300 | prev (b) + (a) 1.0300 1.0600 | (b) / pro | 2.91% | | | |
| 1.00 | 3.00% 3.25% | 1/1/2015 1/1/2016 | 0.0300 0.0300 0.0325 | prev (b) + (a) 1.0300 1.0600 1.0925 | (b) / pro 0.0291 0.0307 | 2.91% 3.07% | | | |
| | 3.00% 3.25% 3.00% 3.00% | 1/1/2015 1/1/2016 1/1/2017 1/1/2018 | 0.0300 0.0300 0.0325 0.0300 0.0300 | 1.0300 1.0600 1.0925 1.1225 1.1525 | (b) / pro 0.0291 0.0307 0.0275 | 2.91% 3.07% 2.75% | | | |
| 1.00 | 3.00% 3.25% 3.00% 3.00% 3.00% | 1/1/2015 1/1/2016 1/1/2017 1/1/2018 1/1/2019 | 0.0300 0.0300 0.0325 0.0300 0.0300 | prev (b) + (a) 1.0300 1.0600 1.0925 1.1225 1.1525 1.0300 | (b) / pro 0.0291 0.0307 0.0275 0.0267 | 2.91% 3.07% 2.75% 2.67% | | | |
| | 3.00% 3.25% 3.00% 3.00% | 1/1/2015 1/1/2016 1/1/2017 1/1/2018 | 0.0300 0.0300 0.0325 0.0300 0.0300 | 1.0300 1.0600 1.0925 1.1225 1.1525 | (b) / pro 0.0291 0.0307 0.0275 | 2.91% 3.07% 2.75% | | | |

Note 1: Agreement ratified by the IBEW, Local 1260 on November 1, 2012, reflects a 3.00% increase effective 1/1/2014, 1/1/2015, 1/1/2017 and 1/1/2018 and a 3.25% increase effective 1/1/2016, based on 1/1/2013 rates.

Note 2: Agreement ratified by the IBEW, Local 1260 on July 31, 2018, reflects a 3.00% increase effective 1/1/2019, 1/1/2020 and 1/1/2021 based on 1/1/2018 rates. See also HECO-WP-C-003.

Blue Chip Economic Indicators®

Top Analysts' Forecasts of the U.S. Economic Outlook for the Year Ahead Vol. 44, No. 2, February 10, 2019

2019 Real GDP Forecast Drops to 2.5%

| | | D. | . 61 | | | | GDP 1 | | | | | | l m . 1 r | 1 1 2010 | 2010 |
|---|-------------------|--------------|---------------------|---------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|-----------------|---------------------|-------------------------|
| FEBRUARY 2019 | 1 | - Percei | nt Change 3 | 2019 Fro 4 | m 2018 5 | (Full Year- | -Over-Prio 7 | r Year) 8 | 9 | Ave 10 | rage For 2 | 12 | - Total U 13 | Jnits-2019 - 14 | 2019 15 |
| Forecast For 2019 | _ | | | | | | Personal | | | Treas. | | Unempl. | | 14 Auto&Light | Net |
| SOURCE: | (Chained) | | GDP | Price | Prod. | | Cons. Exp. | | | Bills | Notes | Rate | _ | Truck Sales | Exports |
| SOURCE. | (2012\$) | Index | (Cur.\$) | Index | (Total) | | (2012\$) | (2012\$) | (Cur.\$) | 3-mo. | 10-Year | (Civ.) | (Mil.) | (Mil.) | (2012\$) |
| Action Economics | 2.9 H | | 5.0 | 1.9 | 3.5 | 2.8 | 3.1 H | 4.9 | 7.5 | 2.7 | 3.0 | 3.7 | 1.28 | 17.1 | -967.9 |
| Amherst Pierpont Securities | 2.9 H | | 5.4 H | 2.5 H | 3.5 | 2.8 | 3.1 H | | 7.5 | 2.6 | 3.2 | 3.6 | 1.29 | 16.9 | -960.0 |
| MUFG Union Bank | 2.9 H | | 5.3 | 1.8 | 3.2 | na | 2.9 | 3.8 | 5.5 | 2.4 | 3.0 | 3.7 | 1.29 | 17.2 H | -960.0 |
| Barclays, US* RDQ Economics | 2.8 2.8 | 1.9 2.0 | 4.8 4.9 | 1.4 2.1 | 2.8 3.7 H | na [2.5 | 2.9 2.9 | 5.1 5.6 | na 8.5 H | na 2.7 | na 3.1 | 3.7 3.5 | na 1.30 | na 17.2 H | -1024.5 -1021.6 |
| SOM Economics, Inc. | 2.8 | 2.0 | 4.8 | 2.0 | 3.7 | 2.5 | 2.5 | 4.2 | 5.0 | 2.6 | 2.9 | 3.6 | 1.25 | 16.8 | -938.0 |
| U.S. Chamber of Commerce | 2.8 | 2.1 | 4.9 | 2.1 | 3.2 | 2.6 | 2.9 | 5.2 | 4.5 | 2.6 | 2.9 | 3.9 | 1.30 | na | -932.7 |
| Credit Suisse | 2.7 | 2.0 | 4.7 | 1.8 | na | na | 2.9 | 3.0 | na | na | na | 3.7 | na | na | -966.2 |
| Moody's Analytics, US | 2.7 | 2.3 | 5.1 | 2.1 | 2.9 | 2.2 | 2.8 | 5.3 | 6.1 | 2.6 | 3.1 | 3.6 | 1.38 H | | -1080.7 L |
| NatWest Markets PNC Financial Services Group | 2.7 | 2.0 | 4.8 | 1.8 | 2.4 | 2.5 | 3.0 | 5.8 H | 5.0 | 2.7 | 2.8 | 3.5 | 1.20 | 16.5 | -980.0 |
| RBC Capital Markets | 2.7 2.7 | 1.7 2.1 | 4.4 4.8 | 1.8 1.7 | 2.9 na | 1.3 L na | 2.7 2.9 | 4.6 5.2 | na na | 2.5 na | 2.9 3.1 | 3.6 3.6 | 1.30 1.28 | 17.0 17.0 | -1013.0 -980.0 |
| The Conference Board, US* | 2.7 | na | 4.8 | 2.1 | na | 2.5 | 2.8 | 4.4 | 6.2 | 2.5 | 2.8 | 3.7 | 1.24 | 17.0 17.2 H | -1020.3 |
| Comerica** | 2.6 | 2.0 | 4.6 | 1.9 | 3.5 | 2.9 | 2.6 | 4.1 | na | 2.5 | 2.9 | 3.7 | 1.24 | 16.6 | -942.4 |
| Georgia State University* | 2.6 | 2.4 | 5.0 | 2.0 | 2.6 | 2.5 | 2.8 | 5.1 | 4.4 | 2.5 | 3.2 | 4.1 | 1.24 | 16.3 | -1021.3 |
| High Frequency Economics | 2.6 | 2.0 | 4.7 | 1.9 | 2.8 | 2.9 | 3.0 | 3.3 | 1.7 | 2.4 | 2.9 | 3.8 | 1.22 | 16.9 | -953.1 |
| Naroff Economic Advisors* | 2.6 | 2.1 | 4.8 | 2.0 | 2.6 | 2.3 | 2.6 | 2.9 | 4.3 | 2.8 | 3.2 | 3.7 | 1.30 | 16.7 | -977.0 |
| Point72 Asset Management* Regions Financial Corporation | 2.6 2.6 | 1.9 2.5 H | 4.5 5.1 | 1.9 1.7 | 3.1 2.9 | 2.3 2.3 | 2.8 3.0 | 5.4 4.4 | 6.2 4.5 | 2.5 2.6 | 2.8 2.8 | 3.7 3.7 | 1.20 1.25 | 16.7 16.9 | -1058.8 -954.4 |
| Turning Points (Micrometrics) | 2.6 | 2.5 H 2.4 | 5.1 | 2.1 | 2.9 | 2.3 | 2.7 | 4.4 | 2.8 | 2.6 | 2.8 3.4 H | 3.7 | 1.25 1.18 L | 16.9 16.7 | -954.4 -985.0 |
| ACT Research | 2.5 | 2.0 | 4.5 | 1.9 | 2.8 | 3.0 | 2.7 | 5.0 | na | 2.4 | 2.8 | 3.7 | 1.31 | 16.6 | -1012.7 |
| Bank of America-Merrill Lynch, US** | 2.5 | 2.0 | 4.6 | 1.6 | 2.7 | na | 2.6 | 3.4 | na | 2.4 | 2.8 | 3.7 | 1.29 | 16.6 | -969.1 |
| Eaton Corporation | 2.5 | 2.3 | 4.8 | 2.0 | 2.5 | 2.7 | 2.6 | 4.1 | na | 2.6 | 3.0 | 3.7 | 1.30 | 16.8 | -1006.2 |
| Econoclast | 2.5 | 2.0 | 4.5 | 2.0 | 2.8 | 2.2 | 2.8 | 3.5 | 5.2 | 2.4 | 2.8 | 3.8 | 1.25 | 16.3 | -989.0 |
| Fannie Mae FedEx Corporation, US | 2.5 | 2.3 | 4.8 | 2.0 | 2.5 | 2.4 | 2.6 | 3.9 | 1.5 | 2.5 | 2.7 | 3.7 | 1.26 | 16.7 | -1020.9 |
| Ford Motor Company* | 2.5 2.5 | 2.1 2.1 | 4.5 4.5 | 1.9 2.2 | 2.7 2.6 | 2.5 2.5 | 2.6 2.5 | 4.6 3.9 | 3.9 na | 2.6 na | 3.0 2.7 | 3.6 3.7 | 1.27 1.27 | 16.8 na | -1008.0 -1003.0 |
| General Motors Corporation, US | 2.5 | 2.1 | 4.6 | 2.0 | 2.8 | 2.6 | 2.7 | 3.8 | 1.8 | 2.6 | 2.9 | 3.6 | 1.28 | na | -857.3 |
| Inforum - Univ. of Maryland | 2.5 | 2.1 | 4.7 | 2.0 | 2.7 | 2.4 | 2.6 | 4.3 | 4.5 | 2.7 | 3.0 | 3.7 | 1.27 | 16.7 | -980.4 |
| Moody's Capital Markets, US* | 2.5 | 1.9 | 4.5 | 1.6 | 3.5 | 2.6 | 2.8 | 3.8 | 4.3 | 2.4 | 2.8 | 3.6 | 1.28 | 16.9 | -967.7 |
| National Assn. of Home Builders | 2.5 | 2.3 | 4.5 | 2.0 | 1.7 L | | 2.6 | 4.0 | na | 2.7 | 3.0 | 3.6 | 1.27 | 16.8 | -1020.0 |
| UCLA Business Forecasting Proj.* | 2.5 | 2.2 | 4.7 | 2.2 | 2.5 | 2.5 | 2.6 | 4.3 | 4.0 | 2.5 | 3.0 | 3.6 | 1.31 | 16.6 | -1035.0 |
| Wells Fargo, US AIG | 2.5 2.4 | 1.9 2.3 | 4.4 4.7 | 2.1 2.0 | 3.0 2.5 | 2.9 2.7 | 2.9 2.5 | 3.8 3.8 | 4.4 4.8 | 2.6 2.4 | 3.0 2.8 | 3.7 3.5 | 1.30 1.27 | 16.7 16.7 | -1010.7 -1009.2 |
| BMO Capital Markets* | 2.4 | 2.3 | 4.7 | 2.0 | 3.3 | 2.1 | 2.7 | 3.3 | 5.9 | 2.5 | 2.8 | 3.6 | 1.24 | 16.4 | -1009.2 |
| Daiwa Capital Markets America | 2.4 | 2.0 | 4.5 | 1.9 | 2.5 | 2.2 | 2.9 | 3.6 | 5.0 | 2.4 | 2.8 | 3.8 | 1.19 | 16.7 | -1012.0 |
| Goldman Sachs & Co.** | 2.4 | 2.0 | 4.3 | 1.8 | 1.7 L | 3.4 H | 2.8 | 3.3 | na | 2.7 | 2.9 | 3.7 | 1.27 | na | -975.5 |
| Macroeconomic Advisers by IHS Markit** | 2.4 | 2.1 | 4.5 | 2.0 | 2.7 | 2.5 | 2.6 | 3.6 | 1.5 | 2.6 | 2.9 | 3.6 | 1.28 | 16.8 | -1021.1 |
| MacroFin Analytics & Rutgers Bus School | 2.4 | 2.2 | 4.6 | 2.0 | 3.1 | 2.3 | 2.5 | 3.8 | 4.7 | 2.6 | 2.9 | 3.9 | 1.26 | 16.8 | -943.8 |
| Nomura Securities, US Northern Trust Company* | 2.4 2.4 | 2.3 1.8 | 4.7 4.2 | 1.7 2.0 | 2.7 2.7 | 2.1 2.2 | 2.9 2.7 | 2.7 3.1 | na 4.1 | na 2.7 | 2.7 3.2 | 3.4 L 3.6 | 1.25 1.28 | 16.9 16.6 | -1044.3 -989.9 |
| Oxford Economics, US | 2.4 | 1.7 | 4.2 | 1.7 | 2.7 | 2.4 | 2.8 | 3.3 | -2.4 L | 2.7 | 2.8 | 3.7 | 1.29 | 17.0 | -989.9 |
| Societe Generale | 2.4 | 1.9 | 4.3 | 1.6 | na | 2.5 | 2.8 | 4.1 | 3.2 | 2.6 | 2.8 | 3.6 | 1.23 | 16.7 | -1011.4 |
| UBS | 2.4 | 2.0 | 4.5 | 1.5 | 2.4 | 3.2 | 2.4 | 3.0 | na | 2.5 | na | 3.7 | 1.33 | na | -1010.9 |
| Economist Intelligence Unit, UK | 2.3 | 1.8 | 4.1 | 2.2 | 2.6 | 2.0 | 2.3 | 3.0 | na | 2.6 | 2.7 | 4.1 | 1.26 | 16.2 | -915.0 |
| Grant Thorton/Diane Swonk | 2.3 | 2.1 | 4.4 | 1.9 | 2.6 | 2.5 | 2.6 | 3.4 | 1.2 | 2.4 | 2.8 | 3.7 | 1.24 | | -1010.4 |
| JP MorganChase, US MacroPolicy Perspectives | 2.3 2.3 | 1.8 1.7 | 4.1 4.0 | 1.4 1.3 L | 2.0 na | 2.7 na | 2.9 2.9 | 3.4 3.6 | 3.5 2.0 | na 2.6 | 3.1 2.8 | 3.7 3.8 | 1.28 1.22 | 17.0 16.7 | -1058.0 -1051.0 |
| Morgan Stanley, US** | 2.3 | 2.0 | 4.0 | 1.5 L 1.8 | па 3.4 | па 2.6 | 2.5 | 2.6 | na | 2.0 2.9 H | 2.8 | 3.5 | 1.22 | 10.7 na | -1031.0 |
| S&P Global, US* | 2.3 | 2.1 | 4.4 | 2.2 | 2.5 | 1.8 | 2.6 | 3.5 | 0.7 | 2.7 | 3.0 | 3.6 | 1.30 | 16.8 | -1006.3 |
| Swiss Re | 2.2 | 1.6 L | 3.8 L | 1.9 | 2.4 | 2.8 | 2.7 | 3.2 | 4.5 | 2.5 | 3.0 | 3.9 | 1.27 | 16.9 | -1019.1 |
| BNP Paribas North America | 2.1 | na | na | 1.4 | 2.4 | 2.6 | 2.5 | 3.0 | na | 2.8 | 3.4 H | 3.6 | na | na | -1008.0 |
| ACIMA Private Wealth, US | 1.7 L | 2.1 | 3.8 L | 1.8 | 2.0 | 1.5 | 1.5 L | 1.6 L | na | 2.1 L | 2.3 L | 4.2 H | 1.20 | 15.7 L | -832.5 H |
| 2019 Consensus: February Avg. Top 10 Avg. | | 2.1 2.4 | 4.6 5.1 | 1.9 2.2 | 2.8 3.4 | 2.5 2.9 | 2.7 3.0 | 3.9 5.3 | 4.1 6.4 | 2.6 2.8 | 2.9 3.2 | 3.7 3.9 | 1.27 1.31 | 16.7 17.1 | -991.1 -922.9 |
| Bottom 10 Avg. | | 1.8 | 4.1 | 1.5 | 2.2 | 2.0 | 2.4 | 2.8 | 1.4 | 2.4 | 2.7 | 3.5 | 1.21 | 16.4 | -1041.6 |
| January Avg. | | 2.1 | 4.7 | 1.9 | 2.7 | 2.5 | 2.7 | 4.1 | 4.6 | 2.6 | 3.0 | 3.6 | 1.27 | 16.8 | -989.7 |
| , , | | | | | | | | | | | | | | | |
| Historical data 2015 | | 1.0 | 4.0 | 0.1 | -1.0 | 4.1 | 3.7 | 1.8 | -2.9 | 0.1 | 2.1 | 5.3 | 1.11 | 17.4 | -724.9 |
| 2016 | | 1.1 | 2.7 | 1.3 | -1.9 | 1.7 | 2.7 | 0.5 | -1.1 | 0.3 | 1.8 | 4.9 | 1.17 | 17.5 | -786.2 |
| 2017 | | 1.9 2.2 f | 4.2 | 2.1 | 1.6 | 2.6 | 2.5 | 5.3 | 3.2 | 0.9 | 2.3 | 4.4 | 1.20 | 17.1 | -858.7 |
| 2018 | 2.9 f f=Dec 20 | | 5.2 f sensus For | 2.4 | 4.1 | 2.8 f | 2.7 f | 6.8 f | 7.8 f | 2.0 | 2.9 | 3.9 | 1.26 f | 17.2 | -908.4 f |
| Number of Forecasts Changed From a Month | | . o con. | sensus 1 01 | ccusio | | | | | | | | | | | |
| Down | | 17 | 26 | 18 | 10 | 8 | 14 | 19 | 12 | 25 | 26 | 6 | 9 | 13 | 14 |
| Same | | 24 | 26 14 | 17 | 13 | 8 26 | 31 | 20 | 16 | 16 | 26 15 | 23 | 30 | 23 | 21 |
| Up | | 6 | 8 | 14 | 22 | 11 | 4 | 9 | 3 | 2 | 2 | 20 | 6 | 1 | 13 |
| February Median | | 2.0 | 4.6 | 1.9 | 2.7 | 2.5 | 2.7 | 3.8 | 4.5 | 2.6 | 2.9 | 3.7 | 1.27 | 16.8 | -1006.2 |
| February Diffusion Index | | | | 1.9 46 % | 63 % | | 40 % | | | | 2.9 | 5.7 64 % | 47 % | | -1006.2 49 % |
| *E | 33 70 | 23 /0 | 21 /0 | 70 /0 | | | Chi- F | | 23 70 | _3 /0 | -2 /0 | J 1 /0 | ., 70 | 31 /0 | 1,7 /0 |

^{*}Former winner of annual Lawrence R. Klein Award for Blue Chip Forecast Accuracy. **Denotes two-time winner.

HAWAIIAN ELECTRIC COMPANY. INC.

| | E | XHIBIT A | 3.00% | 3.00% | 3.00% |
|--|---|-------------|------------|----------|----------|
| JOB CODE | JOB TITLE | | 1/1/2019 | 1/1/2020 | 1/1/2021 |
| CL829 | CASHIER | | | | |
| | 1st 3 mos. | | 24.19 | 24.89 | 25.59 |
| | Next 3 mos. | | 25.31 | 26.05 | 26.79 |
| | Next 3 mos. | | 26.60 | 27.37 | 28.14 |
| | Next 6 mos. | | 27.91 | 28.72 | 29.53 |
| | Next 6 mos. | | 29.26 | 30.11 | 30.96 |
| | Thereafter | | 30.71 | 31.60 | 32.49 |
| CLC05 CL18 CL20 CL22 CL104 | SR INFORMATION STORAGE SYSTEM OPERATION CLERK TEST AND SUBSTATION CLE DESKTOP PUBLISHING OPER POWER PLANT CLERK | (ERK | T OPERATOR | | |
| CL257 | MOTOR FLEET CLERK | | | | |
| CL328 | METER CLERK | | | | |
| CL21 | PRINT PRODUCTION OPERA | TOR | | | |
| CL684 | COMPUTER SYSTEMS OPER | RATOR TRAIN | NEE | | |
| | 1st 3 mos. | | 24.71 | 25.43 | 26.15 |
| | Next 3 mos. | | 25.95 | 26.71 | 27.47 |
| | Next 3 mos. | | 27.20 | 27.99 | 28.78 |
| | Next 6 mos. | | 28.55 | 29.38 | 30.21 |
| | Next 6 mos. | | 29.99 | 30.86 | 31.73 |
| | Thereafter | | 31.40 | 32.31 | 33.22 |
| | | | | | |
| TL180 | CONDENSER CLEANER | | | | |
| | 1st 6 mos. | | 27.20 | 27.99 | 28.78 |
| | Next 6 mos. | | 28.55 | 29.38 | 30.21 |
| | Next 6 mos. | | 29.99 | 30.86 | 31.73 |
| | Thereafter | | 31.40 | 32.31 | 33.22 |
| CLA49 CLA81 CL12 CL13 CL15 | PROJECT CLERK STANDARDS CLERK JOINT POLE AIDE PROJECT CLERK FIELD SERVICE CLERK | | | | |
| | 1st 3 mos. | | 25.31 | 26.05 | 26.79 |
| | Next 3 mos. | | 26.60 | 27.37 | 28.14 |
| | Next 3 mos. | | 27.91 | 28.72 | 29.53 |
| | Next 6 mos. | | 29.26 | 30.11 | 30.96 |
| | Next 6 mos. | | 30.71 | 31.60 | 32.49 |
| | Thereafter | | 32.27 | 33.21 | 34.15 |
| T335 | TRUCK DRIVER A 1/ | /1/2018 | 32.31 | 33.25 | 34.19 |
| CL406 | METER READER | | | | |
| | | 23.99 | 24.71 | 25.43 | 26.15 |
| | Next 3 mos. | 25.19 | 25.95 | 26.71 | 27.47 |
| | | 27.72 | 28.55 | 29.38 | 30.21 |
| | | 29.12 | 29.99 | 30.86 | 31.73 |
| | | 30.49 | 31.40 | 32.31 | 33.22 |
| | Thereafter | 32.03 | 32.99 | 33.95 | 34.91 |
| | | | x 1.03 | x 1.0291 | x 1.0283 |

CIAC Treatment Resulting from FERC Adoption

Adoption of FERC USOA required a change in presentation change to Contributions in Aid of Construction (CIAC)

Prior to October 2018, and in establishing rates in previous test year rate cases, the Company's presentation of contributions in aid of construction ("CIAC") followed the guidelines of the National Associate of Regulatory Utility Commissioners Uniform System of Accounts (NARUC USOA). Under the NARUC reporting system, CIAC is reported under an exclusive account, account 271, which includes donations or contributions in cash, services or property from states, municipalities, or other governmental agencies, individuals and others for construction purposes. All CIAC was incorporated as a deduction in the calculation of rate base in part because the Companies' systems did not facilitate on-going reporting of CIAC related to plant in service separate from CIAC related to construction work in progress ("CWIP").

The Commission approved the Companies' request to change to Federal Energy Regulatory Commission Uniform System of Accounts (FERC USOA), beginning with the implementation of the Companies' new ERP/EAM, in Decision and Order No. 31757, issued December 19, 2013 in Docket No. 2013-0007.

Beginning in October 2018 with the transition to FERC, the net balance of CIAC in account 271 less the CIAC amortization to be recorded for October to December 2018, was credited against the account balances charged with the cost of construction, i.e., gross plant in service and CWIP, resulting in the account becoming zero (i.e. "0") at December 31, 2018.

Ratemaking treatment for CIAC

The Company's ratemaking treatment of contributions in aid of construction is summarized below:

- CIAC associated with Plant in Service When a utility capital project is placed into service, the plant in service net of the associated CIAC is included as net cost of plant in service in rate base. The plant in service net of the CIAC is included as part of the basis for the depreciation accrual the year after it is placed into service (i.e. January 1 of the year after it is placed into service).
- CIAC associated with CWIP For book purposes, CIAC that is received while projects are still under construction (i.e. in CWIP) will offset the costs incurred and is presented net in CWIP. The CWIP net of the associated CIAC is subject to the AFUDC accrual if there is a net CWIP balance. In the next rate case, the Company will request CIAC associated with CWIP be excluded from the rate base calculation since CWIP net of

CIAC earns AFUDC. CIAC associated with CWIP is however, included in rate base in this RAM calculation for consistency with the 2017 Test Year treatment. See further discussion of Company's requested treatment of CIAC associated with CWIP below.

• Developer Advances - Cash contributions received in advance of construction of a utility capital project that are temporarily not classified as CIAC because the funds received are in excess of the specific project expenditures. The balance of developer advances is presented as funds from non-investors, included in its own exclusive account, and deducted in the calculation of rate base. As project costs are incurred for a utility capital project, an equal portion of developer advances associated with the project will be reclassified as CIAC and credit the accounts charged with the cost of construction. Developer Advances were included as a part of CIAC as a reduction to rate base in the 2017 Test Year.

Treatment of CIAC within the 2019 Annual Decoupling Filing

For the 2019 Decoupling Filing, the Company treated CIAC consistently with prior filings resulting in no impact to rate base.

Schedule D1, Determination of Rate Base RAM Adjustment – Change in Rate Base

Plant in Service - There is no change in rate base for plant in service and CIAC associated with plant in service. Under NARUC, in rate base, plant in service was the gross cost of plant (net of accumulated depreciation), and CIAC was a separate reduction to rate base. Under FERC, the plant in service amounts are net of (i.e., already reduced by) CIAC, and presented net of accumulated depreciation in the calculation of rate base. There is no separate CIAC line item reducing rate base because it is already net in utility plant. Therefore, there is no net rate base impact. The difference between NARUC and FERC for plant in service is a matter of where the costs are classified in rate base, and not a matter of inclusion or exclusion of costs in rate base.

CIAC associated with CWIP - There is no change in rate base for CIAC associated with CWIP. Previously, presentation of CIAC aligned with NARUC and all CIAC, including amounts associated with projects in CWIP, were included as a reduction to rate base under account 271. The 2019 estimated balance continues the treatment of including the CIAC in CWIP to be consistent with the recorded balance at 2018 year-end because all 2019 estimated CIAC additions have been included at Schedule D2 and included as part of net cost of plant at Schedule D1. Although the treatment described above was used in the 2019 annual decoupling filing, see Company's requested treatment to exclude CIAC associated with CWIP from rate base in future filings in the discussion below.

Developer Advances - With the transition to FERC, CIAC is credited when received against the related project costs in CWIP. To the extent funds are not yet expended for a project in

CWIP, the CIAC will be classified as developer advances and deducted in the calculation of rate base at Schedule D1. The recorded balance at 2018 year-end is not adjusted for 2019 activity as it is incorporated in Schedule D2.

Schedule D2, Determination of Baseline Capital Projects Additions

Schedule D2 was revised to incorporate the baseline and major project CIAC (including Developer Advances) for 2014 to 2017 into the baseline average calculation of net plant in service, consistent with the presentation of rate base. The 2018 CIAC additions calculated at HECO-WP-D2-003 includes additions to CIAC from all sources, i.e. Plant, CWIP and Developer Advances, which were used in the 5-year baseline calculation. As a result, the estimated 2019 additions to CIAC in CWIP and Developer Advances balances at Schedule D1 for the Change in Rate Base are not required as they are already included in the net cost of plant line item.

Schedule E, Determination of Depreciation & Amortization RAM Adjustment

FERC Uniform System of Accounts Electric Plant Instructions, 2. Electric Plant To Be Recorded at Cost. D. states, "The electric plant accounts shall not include the cost or other value of electric plant contributed to the company." Therefore, the Recorded Depreciable/ Amortizable Balances at December 31, 2018 in Schedule E represents plant in service net of CIAC which is used as the basis to estimate the 2019 annual accrual amount. In calculating the 2019 RAM Depreciation and Amortization, Depreciation and Amortization in Current Revenues also includes CIAC amortization approved in the 2017 Test Year.

Schedule F & F1, Determination of Change in Deferred Income Taxes & Tax Depreciation

The methodology for computing the deferred taxes related to RAM year tax depreciation was not changed within the 2019 annual decoupling filing. Gross plant additions are used as the basis for calculating tax depreciation. However, see the CIAC impact to ADIT section below for the Company's preferred treatment considering the effects of netting CIAC against plant in service.

Schedule G-series, CIAC

Schedule G, G1 and G2 were removed from the Decoupling filings and instead incorporated into either Plant in Service, CIAC in CWIP or Developer Advances. The December 31, 2018 balances for CIAC associated with CWIP and Developer Advances were extracted from PowerPlan. Additionally, as noted above, the calculation of the 5-year baseline average of CIAC and amortization was incorporated within Schedule D2 and Schedule E, respectively.

The Company will continue to include CIAC associated with CWIP and Developer Advances as a reduction to rate base until the FERC presentation of rate base is approved in the Company's next rate case.

Company's requested CIAC treatment

The Company requests to reflect the following changes to the treatment of CIAC within the annual decoupling filings.

CIAC associated with CWIP

In Mr. Franklin's T-12 direct testimony in Hawaii Electric Light's 2019 Test Year rate case, the Company proposes to remove CIAC associated with CWIP from the calculation of rate base due to the fact that CWIP net of associated CIAC earns AFUDC, therefore the CWIP and its associated CIAC should be excluded from rate base.

Excluding CWIP net of CIAC, to better align the source of funds with its use (i.e. the CIAC funds received were applied against the costs incurred for the project) and is therefore properly excluded from the calculation of rate base. In addition, and as mentioned previously, any material CIAC received in advance of construction expenditures will continue to be deductions in the calculation of rate base as Developer Advances.

CIAC impact to ADIT

ADIT associated with CIAC in CWIP should be divided between nontaxable and taxable CIAC. Nontaxable CIAC (primarily interconnection CIAC) is treated as a reduction in basis for both book and tax purposes. On the other hand, although taxable CIAC is also a reduction in basis for book purposes, for tax purposes, the receipt of taxable CIAC creates tax basis by way of the recognition of taxable income and reverses by way of tax depreciation.

Nontaxable CIAC does not create ADIT since there is no book tax difference. Consequently, the regulatory netting of nontaxable CIAC against the plant assets should not create any issue with respect to the ADIT beginning balance for the rate base RAM calculation

Taxable CIAC generates a Deferred Tax Asset (DTA) as it is received and recorded into CWIP under the new FERC accounting. Prior NARUC accounting treatment with account 271 created DTA as CIAC was booked to 271, which is equivalent to what is now booked to CWIP. The origination and timing of the DTA under the FERC method will be equivalent to the NARUC method. However, under the old method, the DTA was immediately recognized as part of rate base, consistent with the treatment of the account 271 inclusion. However, under the FERC method, the generation of the DTA must be inventoried and tracked to match up with the amount of CIAC in CWIP and the amounts closed to plant in service. This tracking is necessary to ensure that the amount of DTA related to CWIP is excluded from rate base. Once CWIP costs are closed to plant, the related DTA will be included in rate base and will begin reversal through tax depreciation taken on the CIAC tax basis.

FERC accounting imbeds the book treatment of CIAC within CWIP and the ultimate plant and related depreciation. The separation will disappear and the Company asserts that the ADIT

effects will be the same with respect to the beginning balance of ADIT for the annual decoupling filing except to the extent CIAC is still in CWIP. This issue will be addressed along with the rate base treatment of CIAC associated with CWIP as mentioned above.

FERC accounting nets CIAC against Plant in Service for purposes of computing baseline and major plant additions. For RAM year tax depreciation and the related ADIT calculated for the change in RAM year ADIT, adopting the net plant additions as the RAM year tax additions will be a change that will result in a smaller amount of tax depreciation and ADIT "change" since the Company previously has assumed the gross additions to be the RAM year tax depreciable base. The Company asserts this is reasonable for the following reasons:

- 1) Under the old method, to the extent nontaxable CIAC was included in the RAM year numbers (through major projects or baseline projects), tax depreciable basis was overstated since there is no tax basis for assets funded by nontaxable CIAC.
- 2) With respect to taxable CIAC, the funded assets do have depreciable tax basis and it is accounted for in the RAM year additions tax depreciation. However, the receipt of taxable CIAC generates taxable income and deferred tax assets that increase rate base. The effect of this DTA from taxable CIAC was never recognized in the RAM tariff, which resulted in an overstatement of RAM year ADIT change, as it related to the projected plant additions.

For purposes of the 2019 RAM calculation, ADIT has been calculated on gross plant additions, consistent with the 2017 Test Year treatment and prior decoupling filings, however the Company is requesting treatment of CIAC in deferred tax to follow FERC accounting.

Summary

In summary, Hawaiian Electric prepared the 2019 annual decoupling filings in accordance with the historical treatment of CIAC. Historically, due to system constraints, CIAC records were not maintained with matching of the separate components (plant in service, CWIP, developer advances). As a result, the entire amount of CIAC was treated as a reduction to rate base and the Return on Investment was understated. As stated in Mr. Franklin's T-12 direct testimony in Hawaii Electric Light's 2019 Test Year rate case, the Companies propose to exclude the CIAC associated with CWIP in its calculation of rate base in the rate base RAM filings. Should the Commission approve Hawaii Electric Light's proposal, Hawaiian Electric will implement this change in the annual decoupling filing in the year following the Commission's approval.

Hawaiian Electric Company, Inc. Revenue Decoupling - Rate Base RAM 2018 Major Projects and Other Plant Additions, Net of CIAC

| | | | | | NET CALCULATION | | | | | | | | | |
|------------|-----------------|---|--|---|---|-----------------------|---------------------|---------------------|---|---------------------|------|-------------------------------------|------------------------------|-----------|
| | | | | | [1] | [2] 2018 Pla | nt Additions, Net o | of CIAC | | [3] | | | | |
| | Grand parent | Project # | Project | Plant Addition Date | Net Plant Adds Thru 12/31/17 | Total Project Cost | CIAC & Adjs | Net Project Cost | Net Plant Adds Thru 12/31/18 | Net PUC Approved | | Over/(Under) Net PUC Approved | Functional Plant Category | |
| | | | | | (A) | (B) | (C) | (D) = (B) + (C) | (E) = (A) + (D) | (F) | | (E) - (F) | | |
| 2018 1 | Major Pro - | <u>ojects</u> P0001370 | DOT Airport DSG | 2018 straggling | 3,336,179 | (3,516) | (96,602) | (100,118) | 3,236,061 | 3,400,139 | [3a] | (164,078) | Production Other | |
| 2 | - | P0002264 | Pukele 80MVA Tsf#1 | 2018 straggling | 3,846,733 | - | - | - | 3,846,733 | 3,846,733 | [3a] | - | Transmission | |
| 3 | Y00038 | (P0000783) (P0000672) (P0001579) PZ.000001 | Kakaako Makai-Iwilei 25kV DL Kakaako Makai-Kewalo 25kV DL Kakaako Makai DOT Queen-Cook | 2018 straggling 2018 straggling 2018 straggling | 7,243,799 5,023,851 1,969,969 14,237,619 | - - - | - - - | - - - | 7,243,799 5,023,851 1,969,969 14,237,619 | 14,537,623 | [3a] | (300,004) | Distribution | |
| 4 | Y00168 | PZ.000003 (P0003205) | ERP EAM Hardware | 2018 straggling | 2,604,146 | - | - | - | 2,604,146 | 2,590,000 | [3b] | 14,146 | Computers | To Sch D1 |
| 5 | | PE.005155 | Joint Pole Capital Transfer Price | 201812 | - | 24,665,897 | - | 24,665,897 | 24,665,897 | 24,665,897 | [3c] | - | Distribution | |
| Oth | <u>r</u> | PE 000101 | | | | | | | | | | | | |
| 6 | - | PE.000104 (P0003465) | Koolau-Wailupe #1 Str 30 P9 Replace | 2018 straggling | 2,684,387 | 13,203 | - | 13,203 | 2,697,590 | 2,555,619 | [3d] | 141,971 | Transmission | To Sch D1 |
| <u>Maj</u> | or Project i | Interim Recov | very (MPIR) Projects | | | | | | | | | | | |
| 7 | _ | PZ001002 (P0001576) | Schofield Generation Station | 201806 | - | 144,743,542 | - | 144,743,542 | 144,743,542 | - | [4] | 144,743,542 | Production Other | To Sch D1 |

- [1] Transmittal No. 18-01 (Decoupling) Hawaiian Electric Company RBA Rate Adjustment, HECO-WP-D2-001, filed on May 29, 2018.
- [2] Hawaiian Electric Companies' Exemption From and Modification of General Order No. 7 Paragraph No. 2.3(g), Relating to Capital Improvements Capital Projects Completed in 2018, in Docket No. 03-0257, filed on March 27, 2019. See HECO-WP-D2-002
- [3] Per the Final Decision & Order and Dissenting Opinion of Leslie H. Kondo, Commissioner, filed on August 31, 2010, in Docket No. 2008-0274, on page 54, "for purposes of calculating the Rate Base for the RAM, the costs on Major Capital Projects shall be limited to those amounts most recently approved, e.g., when authorized in the commission's decision approving the HECO Companies' application in compliance with General Order No. 7 or in an interim or final decision and order issued by the commission in the HECO companies' rate cases."
- [3a] Net PUC Approved amount was derived from the Hawaiian Electric 2017 Test Year Rate Case, filed in Docket No. 2016-0328, in response to CA-IR-303 and CA-IR-304 which updated 2016 Plant Additions and CIAC for actuals through December 31, 2016 and revised forecast for 2017. See calculation below:

| | Do | OT Airport DSG | | Pu | kele 80MVA Tsf#1 | | Kakaako Makai | | | |
|--|-----------|----------------|-----------|-----------|------------------|-----------|---------------|-------------|------------|--|
| | Gross | CIAC | Net | Gross | CIAC | Net | Gross | CIAC | Net | |
| Gross/Net Plant Adds Thru 12/31/16) - column [1] | 5,235,178 | (1,993,000) | 3,242,178 | 3,839,121 | - | 3,839,121 | 18,338,808 | (2,825,023) | 15,513,785 | |
| 2017 Plant Addition (CA-IR-303, Att 2) | 157,961 | - | 157,961 | 7,612 | - | 7,612 | (76,162) | - | (76,162) | |
| 2017 CIAC Estimate (CA-IR-304, Att 2) | - | - | - | - | - | - | - | (900,000) | (900,000) | |
| Derived PUC Approved | 5,393,139 | (1,993,000) | 3,400,139 | 3,846,733 | - | 3,846,733 | 18,262,646 | (3,725,023) | 14,537,623 | |

- [3b] Per Decision and Order No. 33861, page 4, Docket No. 2014-0170, For Approval of an Enterprise Resource Planning and Enterprise Asset Management System Implementation Project and Related Accounting Treatment, filed August 11, 2016.
- [3c] Per Decision and Order No. 35768, Docket No. 2018-0075, For Approval of the Transfer of Equity Ownership Interest in Certain Joint Poles, to Commit Funds in Excess of \$2,500,000, Accounting and Ratemaking Treatment, Amendments to Joint Pole Agreements Between the Applicants, Asset Transfer Agreement, and Pole Licensing Agreement, file October 16, 2018. The Commission approved the acquisition of Hawaiian Telcom's joint pole equity ownership shares, valued at \$47,970,092, of which \$24,665,897 was related to Hawaiian Electric.
- [3d] In the 2017 Fourth Quarter Capital Projects Status Report filed on February 28, 2018, Hawaiian Electric identified that the project costs had unexpectedly exceeded \$2,500,000 and provided an explanation for the higher costs. Project cost is limited for rate base RAM recovery to the amount identified in Hawaiian Electric's response to CA-IR-303, Attachment 2, page 3 of 7), filed in Docket No. 2016-0328, Hawaiian Electric 2017 Test Year Rate Case.
- [4] Project to be recovered through the MPIR mechanism and therefore the entire project will be removed from the RAM Revenue Adjustment Calculation. See Notice Transmittal to Update Target Revenue for Schofield Generating Station through the Major Project Interim Recovery Adjustment Recovery Mechanism, filed February 7, 2019, Transmittal No. 19-01 effective January 1, 2019. MPIR Recovery calculated at the Schedule L series.

2018 General Order No. 7 (GO7) Report Summary Plant Additions

| | 2018 |
|---------------------------------------|--------------------|
| Projects | Plant Addition (1) |
| Less than \$2.5M | 189,284,505 |
| Greater than \$2.5M | 169,419,126 |
| Total Plant Additions - Gross | 358,703,631 |
| | To Sch D2, line 1 |
| Less: Major Project additions in 2018 | |
| DOT Airport DSG | 3,516 |
| Koolau-Wailupe #1 Str 30 P9 Replace | (13,203) |
| Schofield Generation Station | (144,743,542) |
| Joint Pole Transfer Price | (24,665,897) |
| | (169,419,126) |
| Baseline Plant Additions - Gross | 189,284,505 |

⁽¹⁾ Source: Hawaiian Electric Companies' Exemption From and Modification General Order No. 7 Paragraph No. 2.3(g), Relating to Capital Improvements Capital Projects Completed in 2018, in Docket No. 03-0257 filed on March 27, 2019.

Hawaiian Electric Company, Inc. CIAC Reconciliation

As of December 31, 2018

| - | | |
|-----|------|--|
| - 1 | 1110 | |
| | | |

| No. | Description | Reference | CIAC, Including Devel | oper Advances |
|-----|--------------------------------------|---------------------------------|-----------------------|---------------|
| | (a) | (b) | (c) | |
| 1 | 12/31/17 Balance | 5/29/18 Decoupling, Sch G1 | (366,100,380) | |
| 2 | Exclude: Non-Utility CIAC | | 618,464 | |
| 3 | Add: Developer Advances | _ | (33,883,949) | |
| 4 | 12/31/17 Balance - Utility CIAC | \bigvee | (399,365,865) | |
| 5 | 9/30/18 Balance | GL #271 | (378,238,665) | |
| 6 | Exclude: Non-Utility CIAC | Line 2 | 618,464 | |
| 7 | Add: Developer Advances | GL #2520300 | (34,163,852) | |
| 8 | 9/30/18 Balance - Utility CIAC | Line 4 + Line 5 | (411,784,053) | |
| 9 | CIAC Change Thru 9/30/18 - Utility | Line 6 - Line 3 | | (12,418,188) |
| 10 | Add Back: 2018 CIAC Amortization | 5/29/18 Decoupling, Sch G3 | | |
| | thru 9/30/18 | (8,818,605 x 9/12) | 8,818,605 | (6,613,954) |
| 11 | CIAC Additions Thru 9/30/18 | | | (19,032,141) |
| 12 | Oct to Dec 2018 Activity | | | |
| 13 | CIAC-Cash Tax | GL #60005200 | (6,435,124) | |
| 14 | CIAC-Cash Non-Tax | GL #60005201 | (831,921) | |
| 15 | CIAC-Settlement | GL #60050221 | 174,515 | |
| 16 | CIAC-In-Kind | GL #60005206 | (3,443,756) | |
| 17 | | • | | (10,536,286) |
| 18 | 2018 CIAC Additions, included within | in Plant in Service, CWIP, Deve | eloper Advances | (29,568,427) |
| | | | | To Sch D2 |

Purpose:

Starting October 1, 2018, the Company adopted FERC guidelines resulting in CIAC being netted with Plant via Plant Additions or CWIP. This workpaper calculates the 2018 CIAC additions by summing the CIAC activity from January 1 to September 30, 2018 (per Ellipse) with the CIAC activity from October 1 to December 31, 2018 (per SAP and Powerplan WBS) for inclusion in the Baseline Plant Additions calculation at Schedule D2. Beginning with calendar year 2019, Baseline Plant Additions will be shown net of CIAC.

Note 1:

See HECO-WP-D1-001 for documentation on the treatment of CIAC in the 2019 Decoupling Filing.

EXCERPT: Transmittal 18-01, Schedule G1, filed 5/29/18.

SCHEDULE G1 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK BASELINE CAPITAL PROJECTS CIAC ADDITIONS

Source of CIAC balance and amort.: December Monthly Reports filed (non-confidential basis) with the PUC dated:

| 1 2 3 | Total Net CIAC & Developer Advance Add | | | 25,138,983 | 31,759,325 | 42,125,490 | 33,488,540 | 59,849,268 |
|-------------|--|------------------------|--------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1 | ERP EAW natuwate | | | | | | | |
| / | ERP EAM Hardware | 2014-0170 | Y00168 | | | | | |
|) | 2017 In-Service: | | | | | | | |
| ; | Pukele 80MVA Tsf #1 | 2011-0156 | P0002264 | | | | | |
| | 2016 In-Service: | | | | | | | |
| | DOT Airport DSG | 2008-0329 | P0001370 | | | | | |
| 1 | Pukele 80MVA Tsf #2 | 2011-0156 | P0001492 | | | | | |
| 3 | BPT Tank 133 Improvements | 2010-0318 | P0000900 | | | | ' | |
| 2 | Kakaako Makai DOT Queen-Cook | 2009-0042 | Y00038 | | | | (2,825,023) | Schedule D2 |
| ı | Kakaako Makai-Kewalo 25kV DL | 2009-0042 | Y00038 | | | | | |
| 9 | Kaloi Telecomm Kaloi Sub 12kV Work | 2008-0070 2008-0070 | Y00119 Y00119 | | | | | |
| 3 | Kaloi Sub 46kV & 12kV Distr | 2008-0070 | Y00119 | | | | | |
| 7 | Kaloi Substation | 2008-0070 | Y00119 | | | | | |
| 3 | 2014 In-Service: | | | | | | | |
| 5 | | _500 00.0 | | | | | | |
| 4 | North South Road 46kV Line | 2008-0070 | Y00119 | | | | | |
| 2 3 | Kaloi Substation - Land - NOTE (2) | 2009-0042 | Y00036 Y00119 | | | | | |
| 2 | Kakaako Makai-Iwilei 25kV DL | 2011-0156 | Y0001494 Y00038 | | | | | |
| 0 1 | 2013 In-Service: Pukele 80MVA Tsf #3 | 2011-0156 | P0001494 | | | | | |
| 9 | 0040 la Camilan | | | | | | | |
| 8 | Kapolei Substation | 2011-0026 | Y00127 | | | | | |
| 7 | Mobile Radio Replacement | 2010-0162 | P0001595 | | | | | |
| 6 | BPT Tank 132 Improvements | 2010-0286 | P0000899 | | | | | |
| 5 | K1 Condenser Tube Replace | 2010-0126 | P0000681 | | | | | |
| 4 | 2012 In-Service: | | | | | | | |
| 3 | Wo Main Hansionnei Nepiace | | 1 000 1000 | | | | | |
| 2 | W8 Main Transformer Replace | 2009-0195 | P0001399 | | | | | |
| 1 | W7 Controls Upgrade | 2009-0195 | P7590000 | (07,334) | (+3,723) | (10,202) | (7 10) | Schedule D2 |
| 9 | W8 Boiler Controls Upgrade EOTP Ph. 2 (Subs/Switch Stations) | 2007-0365 2010-0062 | P7650000 Y48500 | (87,994) | (43,725) | (15,232) | (719) | Calcadul - DO |
| 3 | 2011 In-Service: | 2007 0225 | DZCEOOOC | | | | | |
| 7 | | | | | | | | |
| 6 | K3 Biofuel Co-Firing | 2009-0155 | P0001577 | | | | | |
| 5 | 2010 In-service: | | | | | | | |
| 4 | | | | | | | | |
| 3 | CIP Generating Unit | 05-0145 | Y49000 | | | | | |
| 2 | 2008 In-service: | | | | | | | |
| 0 1 | Less Major Projects: | Dkt No. | Item No. | | | | | |
| | | 51.41 | | | | | | |
| 9 | Total Adjusted CIAC & Developer Advance | e Additions | (- / | 25,226,977 | 31,803,050 | 42,140,722 | 36,314,281 | 59,849,268 Schedu |
| 9 | Add Developer Advances: | | NOTE (4) | _ | _ | _ | - | 33,883,949 |
| 3 | Total Adjusted CIAC Additions | (Sum Line 3, 4 & 7 | 7) | 25,226,977 | 31,803,050 | 42,140,722 | 36,314,281 | 25,965,319 |
| | Less: Adjusted CIAC Balance, December 31 | | | 258,084,169 | 283,739,660 | 319,109,234 | 347,020,076 | 365,481,916 To Sch G |
|) , | Less: Non-Utility CIAC | | NOTE (3) | 250,004,460 | - 202 720 660 | (618,464) | (618,464) 347,826,078 | (618,464) |
| ; | CIAC Balance, December 31 (Dec Rpt. pg. 1 | 0) | | 258,084,169 | 283,739,660 | 319,727,698 | 348,444,542 | 366,100,380 |
| | Less. CIAC Amortization (Dec 14pt. pg. 2) | | | 3,032,912 | 0,147,339 | 0,771,140 | 1,551,451 | 0,303,401 |
| 3 1 | Adjusted CIAC Balance, January 1 Less: CIAC Amortization (Dec Rpt. pg. 2) | | | (238,510,104) 5,652,912 | (258,084,169) 6,147,559 | (283,739,660) 6,771,148 | (319,109,234) 7,597,437 | (347,826,078) 8,309,481 |
| | Less: Non-Utility CIAC | | NOTE (3) | | | | 618,464 | 618,464 |
| | CIAC Balance, January 1 (Dec Rpt. pg. 10) | | | (238,510,104) | (258,084,169) | (283,739,660) | (319,727,698) | (348,444,542) |
| | (a | 1) | | (b) | (c) | (d) | (e) | (f) |
|). | Descri | | | 2013 | 2014 | 2015 | 2016 | 2017 |
| ie | | | | | | | | |
| | | | | 2/21/2014 | 2/26/2015 | 2/23/2016 | 2/24/2017 | 3/1/2018 |

NOTE (1): The CIAC amounts of the major projects are reflected in the year that they were received. In previous Decoupling filings these amounts were from the respective year's GO7 plant addition annual reports which reports the CIAC in the year the project closed to plant. In the past, the total CIAC additions, which reflect actual contributions received in the year, may not have included the total major project CIAC from the GO7 report to the extent that the CIAC was received in advance, or in multiple payments over a span of more than one year. Source: UI Planner files: Actuals Scenario.

NOTE (2): CIAC received for this project was not reflected in the 2012 and 2013 Decoupling filings as previous filings reported the CIAC amounts of the major projects from the respective year's GO7 plant addition annual report which reports the CIAC in the year the project closed to plant. See GENERAL NOTE.

NOTE (3): Adjustment to remove non-utility project related CIAC from the general ledger balance. Chapin UG Duct Line is a non-utility asset. It is a contributed asset that was given to the Company. It is not being used and there are currently no plans to use it. See Schedule G3, Line 96. Adjusted CIAC Additions for 2016 was corrected to exclude the non-utility plant balance from the beginning balance.

NOTE (4): In 2017, the Company reclassed the portion of CIAC for projects where the cash balance received was in excess of total incurred costs since the project agreements include provisions which allow for instances that unapplied funds received in advance would be subject to refunds. The true-up provision allows for any excess funds not expended to be refunded back to the developer. Furthermore, between the timing of the cash receipt to the project completion date, the project could be terminated, which would then result in refund of the unapplied funds. See below for a reconciliation of the Customer Advance balance at December 31, 2017:

 Customer Advance (#25200000)
 4,239,163

 Developer Advances (#25203000)
 33,883,949

 Customer Advances
 38,123,112
 SOURCE: HECO Monthly Financial Report - December 2017, page 10, filed March 1, 2018.

The unapplied developer funds received in advance (Developer Advances) are excluded from the CIAC balance subject to amortization until they are reclassified to CIAC as costs are incurred. Developer Advances are included in the calculation of the Last Five-Year Average because they represent funds received in advance and are expected to be reclassified to CIAC as costs are incurred in the current year. Developer advances were also included in the Unamortized CIAC balance (See "Average Rate Base" from HECO Decision and Order No 35280, filed 2/9/2018 of Docket No. 2016-0328).

Hawaiian Electric Company 2019 Plant Additions Net of CIAC - Major Projects Support

| Grand- parent | Project | Functional Category | Plant Addition Date | Net PUC Approved [1] A | Net Plant Adds thru 12/31/18 [2] | 2019 Net Plant Additions [3] | 2019 CIAC Additions [3] | 2019 Net Project Costs F = D + E | Estimated Net Plant Adds thru 12/31/19 $G = C + F$ | Over/ (Under) Net PUC Approved $H = A - G$ | 2019 Net Plant Addition Qualifying for RB RAM (Note A) |
|------------------|--|-----------------------------|---------------------------|------------------------------|--|------------------------------|-------------------------------|------------------------------------|--|--|--|
| | PE.000209 (P0003975): AES CEIP #2 138kV OH Trans Line Relocation | Transmission >=69kV | 2019/02 | 3,007,232 [1a] | - | 4,091,987 | | 4,091,987 | 4,091,987 | 1,084,755 | 3,007,232 |
| | PG.000005/PZ.001001 (P0003966): West Loch Utility Scale PV | Production- Photovoltaic | 2019/05 | 62,400,000 [1b] | - | 52,128,000 | | 52,128,000 | 52,128,000 | (10,272,000) | 52,128,000 |
| | PZ.000015 (P0000974, P0003977): Ala Wai Canal 46kV Relocation | Transmission <69kV | 2019/06 | 13,910,207 [1c] | - | 20,300,268 | | 20,300,268 | 20,300,268 | 6,390,061 | 13,910,207 |
| Y00038 | P0000672: Kakaako Makai- Kewalo 25kV DL P0000783: Kakaako Makai- | | 2014/04 | 7,243,799 | 7,243,799 | | | | | | |
| | Iwilei 25kV DL P0001579: Kakaako Makai | | 2013/07 | 5,023,851 | 5,023,851 | | | | | | |
| | DOT Queen-Cook | Distribution | 2014/04 _ | 1,969,969 14,237,619 [1d] | 1,969,969 14,237,619 | - | (22,683) | (22,683) | 14,214,936 | (22,683) | (22,683) |

69,022,756 To Sch D3

e amount qualifying for 2019

- NOTE A: Amount qualifying for 2019 rate base RAM recovery is limited to the lower of the net plant addition (column D) or the net PUC approved amount (column A). In the case of straggling costs, the amount qualifying for 2019 rate base RAM recovery is limited to the lower of the 2019 net plant addition (column D) or the remaining unused balance of the net PUC approved amount.
 - [1] Per the Final Decision & Order and Dissenting Opinion of Leslie H. Kondo, Commissioner, filed on August 31, 2010, in Docket No. 2008-0274, on page 54, "for purposes of calculating the Rate Base for the RAM, the costs on Major Capital Projects shall be limited to those amounts most recently approved, e.g., when authorized in the commission's decision approving the HECO Companies' application in compliance with General Order No. 7 or in an interim or final decision and order issued by the commission in the HECO companies' rate cases."
 - [1a] Decision and Order No. 35312 in Docket No. 2016-0439, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for the P0003975 AES-CEIP 2 138 kV Overhead Transmission Line Relocation Project, filed March 2, 2018.
 - [1b] Decision and Order No. 34676 in Docket No. 2016-0342, For Approval of Waiver from the Framework for Competitive Bidding and to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for the Purchase and Installation of Item P0003966 West Loch PV Project, filed June 30, 2017.
 - [1c] Decision and Order No. 34788 in Docket No. 2016-0416, For Approval to Commit Funds in Excess of \$2,500,000 for Item P0000974, Ala Wai Canal 46 kV Underground Line Construction and Item P0003977, Ala Wai Canal Easement Acquisition and Related Requests, filed September 1, 2017.
 - [1d] See HECO-WP-D2-001, Note [3a].
 - [2] Source: HECO-WP-D2-001.
 - [3] Source: UIPlanner Budget files. Forecast as of February 15, 2019.

| DEFERRE | D INCOME TAXES | | | | |
|----------------|---|-----------------------------------|-------------------------------|---------------------------------|---|
| EDERAL | | DR / (CR) | DR / (CR) | DR / (CR) | |
| | | HECO | HECO | HECO | |
| | | FEDERAL | STATE | TOTAL | |
| OR / (CR) | | LIABILITY | LIABILITY | LIABILITY | |
| LIAB | DESCRIPTION | 12/31/2018 | 12/31/2018 | 12/31/2018 | |
| | | | | | |
| 28311 | Unearned Lease | - (0.47.004.00) | - (0.4.500.0.4) | (000.050.44) | |
| 28312 | Accrued Vacation | (247,391.60) | (81,566.84) | (328,958.44) | |
| 28313 | Uncollectible Acct | 365,876.81 | 111,502.91 | 477,379.72 | |
| 28314 | Directors Def Comp | 8,117.74 | 1,571.96 | 9,689.70 | |
| 28317 28319 | Discounted Work Comp Cap to Construct (Cost of Removal) | 313,824.26 71,429,406.70 | 95,894.48 21,769,003.09 | 409,718.74 93,198,409.79 | |
| 28321 | Pension | (15.02) | 0.31 | (14.71) | |
| 28323 | Excess Benefit Plan | 566,372.66 | 168,081.11 | 734,453.77 | |
| 28326 | Def Exec Comp (Def EICP<IP) | 35,031.69 | 10,677.39 | 45,709.08 | |
| 28327 | Software (no APPRISE & e business | 88,753.66 | 52,874.74 | 141,628.40 | |
| 28328 | G/L ACRS Retirements | (12,405,681.27) | (4,236,659.06) | (16,642,340.33) | |
| 28330 | EICP | (358,728.30) | (125,497.81) | (484,226.11) | |
| 28331 | CIAC | 20,071,371.03 | 10,206,246.04 | 30,277,617.07 | |
| 28332 | Customer Advances | 1,077,639.88 | 327,760.03 | 1,405,399.91 | |
| 28333 | Capitalized Interest | 9,984,224.16 | 3,836,301.98 | 13,820,526.14 | |
| 28335 | Connection Fees | (9,611.91) | (8,444.14) | (18,056.05) | |
| 28336 | Nondeductible Interest | 19,016.26 | 5,795.04 | 24,811.30 | |
| 28337 | Supplemt Benefits - SERP | 272,295.28 | 72,700.74 | 344,996.02 | |
| 28340 | LTIP | 822,110.82 | 250,548.14 | 1,072,658.96 | |
| 28341 | Waipahu Baseyard Int | 67,116.93 | 20,452.91 | 87,569.84 | |
| 28347 | Waiau Water Well Pmts | 79,910.90 | 24,369.66 | 104,280.56 | |
| 28350 | Outage Loss Adj Exp | - | (24,509.00) | (24,509.00) | 1 |
| 28401 | Genl/Auto (& Accidents) | 248,241.27 | 75,654.04 | 323,895.31 | |
| 28403 | CWIP Debt Transition | (160,324.76) | (48,863.15) | (209,187.91) | |
| 28404 | CWIP Equity Trans | (404,087.01) | (123,151.30) | (527,238.31) | |
| 28405 | Iolani Ct Plaza Sale | 17,071.33 | (6,033.56) | 11,037.77 | |
| 28406 | Kaonohi Sale | (22,651.01) | (6,942.61) | (29,593.62) | |
| 28408 | Plant Transition | (3,997,395.48) | (1,218,288.67) | (5,215,684.15) | |
| 28409 | CWIP Equity Net CWIP Equity Grossup | (17,671,614.37) | (5,385,620.77) | (23,057,235.14) | |
| 28410 28411 | CWIP Equity Grossup CWIP Debt | (10,862,867.25) (9,399,038.35) | (3,310,577.99) (2,868,001.13) | (14,173,445.23) (12,267,039.48) | |
| 28412 | Genl/Auto Liability - Legal | (9,399,036.33) | (2,428.89) | (2,428.68) | |
| 28413 | Post Retirement Ben | (875,563.84) | (246,873.67) | (1,122,437.51) | |
| 28414 | Reg Liab Federal ITC | 172,357.16 | 53,366.18 | 225,723.34 | |
| 28418 | IRP Costs | (25,223.69) | (8,107.96) | (33,331.65) | |
| 28419 | Reg Liab Excess 283 | 115,881.47 | 35,956.40 | 151,837.87 | |
| 28422 | Miscellaneous | 17,106.97 | (16,969.99) | 136.98 | |
| 28427 | Prepaid Expenses | (915,615.83) | (279,043.26) | (1,194,659.09) | |
| 28432 | Coal Gasif Costs | - | (11,273.00) | (11,273.00) | |
| 28434 | EEO Claims | 452.80 | 138.01 | 590.81 | |
| 28435 | Rev Bond Differential | (106,539.65) | (32,468.74) | (139,008.39) | |
| 28436 | TIP/Rewards Programs | 119,814.53 | 36,774.90 | 156,589.43 | |
| 28441 | Sun Power | 12,330.63 | 3,757.91 | 16,088.54 | |
| 28512 | Revenue Bond Cost Amort. | (678,674.71) | (206,833.19) | (885,507.90) | |
| 28514 | Software (APPRISE only) | - | (22,551.00) | (22,551.00) | |
| 28516 | Honolulu Harbor Reserve | 879,610.69 | 268,072.02 | 1,147,682.71 | |
| 28520 | Deferred Comp - restricted stock | 141,231.75 | 43,041.58 | 184,273.33 | |
| 28522 | Perry reserve | 64,996.20 | 19,808.00 | 84,804.20 | |
| 28526 | Emissions Fees | 331,750.98 | 101,105.19 | 432,856.17 | 1 |
| 28530 | AES Hawaii PPA | 26,904.63 | 8,199.90 | 35,104.53 | |
| 28532 | CIS Project | (48,966.54) | (14,316.02) | (63,282.56) | |
| 28538 | Rate Case Costs | (287,342.77) | (87,571.54) | (374,914.31) | |
| 28542 | QUIPS amortization | (140,608.50) | (42,852.44) | (183,460.94) | 1 |
| 28544 | OPEB Exec Life | 2,641,514.13 | 805,101.19 | 3,446,615.32 | 1 |
| 28546 | Percentage Repairs Allowance | (1,466,861.75) | (556,699.86) | (2,023,561.61) | |
| 28548 28550 | Cap interest (D&T) | (2,603,450.33) | (1,054,919.70) | (3,658,370.03) | |
| 28550 | E-Business hardware OMS project costs | (19,730.68) 262,187.44 | (8,206.93) | (27,937.61) | 1 |
| 28552 | Substation Land - Aiea | 202, 107.44 | 81,204.84 (2,073.65) | 343,392.28 (2,073.65) | 1 |
| 28560 | Solar tax credit | 630.40 | 192.12 | 822.52 | 1 |
| 28564 | HR Suites project costs | (213,369.94) | (67,275.43) | (280,645.37) | |
| 28568 | Solar Saver Program | 43,008.71 | 13,107.14 | 56,115.85 | 1 |
| 28570 | Pension Tracker | (18,456,906.96) | (5,624,946.08) | (24,081,853.04) | 1 |
| 28572 | OPEB Tracker | 1,198,564.16 | 365,276.00 | 1,563,840.16 | 1 |
| 28580 | Blue Earth reserve | (2,163.55) | (659.33) | (2,822.88) | 1 |
| 28584 | RO Water Pipeline | 215,900.82 | 65,798.23 | 281,699.05 | |
| 28590 | Repairs Adjustment | (74,909,026.37) | (22,228,032.86) | (97,137,059.23) | |
| 28592 | Stimulus Funds | 200.17 | 60.96 | 261.13 | |
| 28594 | Budget System Replacement | (135,405.78) | (41,265.98) | (176,671.76) | |
| 28596 | EOTP interest / amort | (2,972.01) | (906.02) | (3,878.03) | |
| 28598 | CIP interest | (116,247.60) | (35,427.08) | (151,674.68) | |
| 28600 | ERP project costs | (1,035,960.90) | (315,721.84) | (1,351,682.74) | |

| | ELECTRIC CO., INC. | | | | |
|--|--|--|--|---|----------|
| EDERAL | NCOME TAXES | DB / (CB) | DR / (CR) | DB / (CB) | |
| EDERAL | | DR / (CR) HECO | HECO | DR / (CR) HECO | |
| | | FEDERAL | STATE | TOTAL | |
| DR / (CR) | | LIABILITY | LIABILITY | LIABILITY | |
| | DESCRIPTION | 12/31/2018 | 12/31/2018 | 12/31/2018 | |
| LIAD | DESCRIPTION | 12/31/2010 | 12/31/2010 | 12/31/2010 | |
| 28602 | Reg Liab Federal PV/EV | 192,541.81 | 58,679.74 | 251,221.54 | |
| | IVR project costs | (174,366.73) | (53,140.93) | (227,507.66) | |
| | Franchise Tax | 1,013,344.05 | 308,828.44 | 1,322,172.49 | |
| | RBA revenues | (7.287.568.48) | (2,220,971.56) | (9.508.540.04) | |
| | NOL - charitable | (6,347.36) | (2,220,971.50) | (6,347.36) | |
| | G/L Lauula | 8.240.41 | (41.55) | 8,198.86 | |
| | Reg Asset - 2017 Excess-other | (3,312,656.78) | (5,623,166.16) | (8,935,822.94) | |
| | ŭ | | , | | |
| | Reg Liab - 2017 Excess-other | 7,289,541.76 | 6,835,162.29 | 14,124,704.06 | |
| | Reg Liab - TRA revenues | 965,858.79 | 294,357.59 | 1,260,216.38 | |
| | PSC/PUC tax | 5,781,313.48 | 1,761,927.88 | 7,543,241.36 | |
| | Waianae Solar | 1,774,655.94 | 540,848.68 | 2,315,504.62 | |
| | HT joint pole unbilled | 875,228.59 | 266,736.90 | 1,141,965.49 | |
| | AOCI - NQ Pension | 624,198.92 | 190,228.31 | 814,427.23 | |
| | AOCI - OPEB Exec Life | (538,268.59) | (164,045.19) | (702,313.78) | |
| | FIN 48 tax | 368,936.00 | 661,176.00 | 1,030,112.00 | |
| | FIN 48 interest | 41,253.93 | 12,572.63 | 53,826.56 | |
| 50000 | Rounding | (709.37) | 364.13 | (345.24) | |
| | | | | | |
| ED ACCO | UNT 283, excluding state ITC | (38,254,016.15) | (6,551,668.15) | (44,805,684.30) | |
| 28310 | State ITC | 11,655,223.12 | 3.534.658.68 | 15,189,881.80 | |
| 200.0 | | 11,000,220.12 | 0,001,000.00 | 10,100,001.00 | |
| | TOTAL ACCOUNT 283 | (26,598,793.02) | (3,017,009.47) | (29,615,802.50) | |
| 9210000 | Accelerated Depreciation | (252,669,067.47) | (48,604,627.78) | (201 272 605 25) | |
| | Accelerated Depreciation Accel. Depr Excess | | | (301,273,695.25) | |
| | | 44,073,568.30 | 13,431,888.93 | 57,505,457.23 | |
| 28210200 | Accel. Depr Deficit | (169,370.14) | (51,202.87) | (220,573.02) | |
| | TOTAL ACCOUNT 282 | (208,764,869.31) | (35,223,941.72) | (243,988,811.04) | To Sch E |
| | | (22-22-22-2 | (22.242.254.22) | (0=0 00 (0 (0 =0) | |
| OTAL DEI | F INCOME TAX - UTILITY | (235,363,662.34) | (38,240,951.20) | (273,604,613.53) | |
| 28210300 | Nonutility Depreciation | 555,767.33 | 265,376.64 | 821,143.97 | |
| 28301001 | Nonutility - Other | 1,029,315.35 | 316,263.16 | 1,345,578.51 | |
| | | 1,020,010.00 | 010,200.10 | | |
| | RHI Tax Allocation | _ | _ | _ | |
| 28301002 | RHI Tax Allocation | - | - | - | |
| 28301002 28301003 | UBC Tax Allocation | - (2.67) | | - (2.67) | |
| 28301002 28301003 50001 | UBC Tax Allocation Rounding | (2.67) | - - - | - - (2.67) | |
| 28301002 28301003 50001 | UBC Tax Allocation | - (2.67) 1,585,080.02 | - - - - 581,639.80 | - (2.67) 2,166,719.82 | |
| 28301002 28301003 50001 | UBC Tax Allocation Rounding | , , | 581,639.80 (37,659,311.40) | | |
| 28301002 28301003 50001 OTAL DEF | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX | 1,585,080.02 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 2,166,719.82 | |
| 28301002 28301003 50001 OTAL DEF | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION | 1,585,080.02 (233,778,582.32) | (37,659,311.40) | 2,166,719.82 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX | 1,585,080.02 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 2,166,719.82 | |
| 28301002 28301003 50001 **OTAL DEF **OTAL DEF **OTAL ACC Less: | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 | 1,585,080.02 (233,778,582.32) (26,598,793.02) | (37,659,311.40) | 2,166,719.82 (271,437,893.72) (29,615,802.50) | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL BASI OTAL ACC Less: 28312 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) | (37,659,311.40) (3,017,009.47) (81,566.84) | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 | |
| 28301002 28301003 50001 OTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp | (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF COTAL ACC Less: 28312 28313 28314 28317 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 28317 28323 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan | (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF OTAL ACC Less: 28312 28314 28317 28323 28326 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) | (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 28314 28317 28323 28326 28330 28336 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 28314 28317 28323 28326 28330 28336 28337 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF COTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28337 28340 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF OTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28336 28337 28340 28341 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF CATE BASIOTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28336 28337 28340 28341 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF OTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28336 28337 28340 28341 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF OTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28336 28337 28340 28341 28347 28347 28350 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF CATE BASI OTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28336 28336 28337 28340 28341 28347 28347 28350 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF CATE BASI OTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28336 28337 28340 28341 28341 28341 28341 28341 28341 28341 28341 28341 28341 28341 28341 28341 28341 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 - 248,241.27 0.21 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 | |
| 28301002 28301003 50001 OTAL DEF COTAL DEF COTAL ACC Less: 28312 28312 28314 28317 28323 28326 28330 28336 28337 28340 28341 28347 28340 28341 28347 28350 28412 28418 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) (8,107.96) | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF COTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28337 28340 28341 28347 28340 28341 28341 28341 28342 28340 28340 28401 28418 28412 28418 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 - 248,241.27 0,21 (25,223.69) 17,106.97 | (37,659,311.40) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) (8,107.96) (16,969.99) | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28336 28337 28340 28341 28347 28350 28401 28412 28418 28422 28434 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 - 248,241.27 0.21 (25,223.69) 17,106.97 452.80 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) (8,107.96) (16,969.99) 138.01 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28330 28336 28337 28340 28341 28347 28350 28401 28412 28418 28412 28418 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 | (37,659,311.40) (37,659,311.40) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) (8,107.96) (16,969.99) 138.01 36,774.90 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 | |
| 28301002 28301003 50001 TOTAL DEF TOTAL DEF TOTAL ACC Less: 28312 28312 28314 28317 28323 28326 28330 28336 28337 28340 28341 28347 28350 28401 28412 28418 28422 28434 28436 28516 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs Honolulu Harbor Reserve | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 - 248,241.27 0,21 (25,223.69) 17,106.97 452.80 119,814.53 879,610.69 | (37,659,311.40) (37,659,311.40) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) (8,107.96) (16,969.99) 138.01 36,774.90 268,072.02 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 1,147,682.71 | |
| 28301002 28301003 50001 TOTAL DEF TOTAL DEF TOTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28337 28340 28347 28347 28340 28347 28340 28341 28442 28448 28422 28434 28436 28516 28520 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs Honolulu Harbor Reserve Deferred Comp - restricted stock | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 879,610.69 141,231.75 | (37,659,311.40) (37,659,311.40) (81,566.84) 111,502.91 1,571.96 95,894.48 168,087.19 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) (8,107.96) (16,969.99) 138.01 36,774.90 268,072.02 43,041.58 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 1,147,682.71 184,273.33 | |
| 28301002 28301003 50001 TOTAL DEF TOTAL DEF TOTAL ACC Less: 28312 28313 28314 28317 28323 28336 28337 28340 28337 28340 28341 28347 28350 28441 28412 28418 28422 28434 28436 28520 28522 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs Honolulu Harbor Reserve Deferred Comp - restricted stock Perry reserve | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 879,610.69 141,231.75 64,996.20 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,087.13 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) (8,107.96) (16,969.99) 138.01 36,774.90 268,072.02 43,041.58 19,808.00 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 1,147,682.71 184,273.33 84,804.20 | |
| 28301002 28301003 50001 OTAL DEF COTAL DEF COTAL ACC Less: 28312 28314 28317 28323 28330 28336 28336 28337 28340 28341 28347 28340 28441 28412 28418 28422 28434 28436 28516 28520 28522 28538 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs Honolulu Harbor Reserve Deferred Comp - restricted stock Perry reserve Rate Case Costs | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 879,610.69 141,231.75 64,996.20 (287,342.77) | (37,659,311.40) (37,659,311.40) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.71 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) (8,107.96) (16,969.99) 138.01 36,774.90 268,072.02 43,041.58 19,808.00 (87,571.54) | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 1,147,682.71 184,273.33 84,804.20 (374,914.31) | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF COTAL ACC Less: 28312 28314 28317 28323 28330 28336 28336 28337 28340 28341 28347 28340 28341 28448 28422 28434 28436 28516 28520 28538 28544 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs Honolulu Harbor Reserve Deferred Comp - restricted stock Perry reserve | 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 879,610.69 141,231.75 64,996.20 | (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,087.13 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) (8,107.96) (16,969.99) 138.01 36,774.90 268,072.02 43,041.58 19,808.00 | 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 1,147,682.71 184,273.33 84,804.20 | |

| HAWAIIAN | ELECTRIC CO., INC. | | | | |
|--------------|----------------------------------|------------------|-----------------|------------------|-----------|
| DEFERRED | INCOME TAXES | | | | |
| FEDERAL | | DR / (CR) | DR / (CR) | DR / (CR) | |
| | | HECO | HECO | HECO | |
| | | FEDERAL | STATE | TOTAL | |
| DR / (CR) | | LIABILITY | LIABILITY | LIABILITY | |
| LIAB | DESCRIPTION | 12/31/2018 | 12/31/2018 | 12/31/2018 | |
| | | | | | |
| 28580 | Blue Earth reserve | (2,163.55) | (659.33) | (2,822.88) | |
| 28600 | ERP project costs | (1,035,960.90) | (315,721.84) | (1,351,682.74) | |
| 28608 | Franchise Tax | 1,013,344.05 | 308,828.44 | 1,322,172.49 | |
| 28614 | RBA revenues | (7,287,568.48) | (2,220,971.56) | (9,508,540.04) | |
| 28618 | NOL - charitable | (6,347.36) | - | (6,347.36) | |
| 28630 | Reg Liab - TRA revenues | 965,858.79 | 294,357.59 | 1,260,216.38 | |
| 28632 | PSC/PUC tax | 5,781,313.48 | 1,761,927.88 | 7,543,241.36 | |
| 28634 | Waianae Solar | 1,774,655.94 | 540,848.68 | 2,315,504.62 | |
| AOCINQ | AOCI - NQ Pension | 624,198.92 | 190,228.31 | 814,427.23 | |
| AOCIOPEB | AOCI - OPEB Exec Life | (538,268.59) | (164,045.19) | (702,313.78) | |
| 48000 | FIN 48 tax | 368,936.00 | 661,176.00 | 1,030,112.00 | |
| 48002 | FIN 48 interest | 41,253.93 | 12,572.63 | 53,826.56 | |
| | Adjustment for EOTP, CIS and CIP | (114,827.94) | (34,994.66) | (149,822.60) | |
| Total Exclus | sions | 7,351,657.84 | 2,701,979.21 | 10,053,637.05 | |
| Total 283 D | eferred Taxes for Rate Base | (33,950,450.87) | (5,718,988.68) | (39,669,439.55) | To Sch D4 |
| Total 282 D | eferred Taxes for Rate Base | (208,764,869.31) | (35,223,941.72) | (243,988,811.04) | |
| TOTAL DE | FINCOME TAX - RATE BASE | (242,715,320.18) | (40,942,930.41) | (283,658,250.59) | To Sch D4 |

HAWAIIAN ELECTRIC CO., INC. ADIT ON EXCESS DEPRECIATION DECEMBER 31, 2018

| | | ecutios | ERP/EAM HARDWARF | KOOLAU- WAII IIPF #1 | TOTAL |
|----|---|-------------------|---------------------|-------------------------|---------------------|
| | FEDERAL DEFERRED TAXES | o inoc | | | |
| _ | State Tax Depreciation | page 2, 3 | 7,356 | 14,620 | 21,976 |
| 2 | Book Depreciation | HECO-WP-E-001 | (2,829) | (4,211) | (7,040) |
| 3 | Subtotal | Line 1 + Line 2 | 4,527 | 10,409 | 14,936 |
| 4 | Effective Federal Tax Rate | | 19.7368% | 19.7368% | 19.7368% |
| S | Federal Deferred Tax on State Depreciation | Line 3 * Line 4 | 893 | 2,054 | 2,948 |
| 9 | Addback State Tax Depreciation | Line 3 | (4,527) | (10,409) | (14,936) |
| 7 | Federal Tax Depreciation | page 2, 3 | 10,751 | 71,941 | 82,692 |
| ∞ | Book Depreciation | Line 2 | (2,829) | (4,211) | (7,040) |
| 6 | Federal State Difference | Line 6 + 7 + 8 | 3,395 | 57,321 | 60,716 |
| 10 | Tax Rate on Federal Only Adjustment | | 21% | 21% | 21% |
| 11 | Federal Deferred Tax Adjustment | Line 9 * Line 10 | 713 | 12,037 | 12,750 |
| 12 | Total Federal Deferred Taxes | Line 5 + Line 11 | 1,606 | 14,091 | 15,698 |
| | STATE DEFERRED TAXES | | | | 10 3CH D4 |
| 13 | State Tax Depreciation Book Depreciation | Line 1 Line 2 | 7,356 (2,829) | 14,620 (4,211) | 21,976 (7,040) |
| 15 | | Line 13 + Line 14 | 4,527 | 10,409 | 14,936 |
| 16 | Effective State Tax Rate | | 6.0150376% | 6.0150376% | 6.0150376% |
| 17 | Total State Deferred Taxes | Line 15 * Line 16 | 272 | 979 | 868 |
| 18 | TOTAL DEFERRED TAXES | Line 12 + Line 17 | 1,878 | 14,717 | to Sch D4 16,596 |
| | | | to Sch D1 | to Sch D1 | to Sch D4 |

HAWAIIAN ELECTRIC CO., INC. EXCESS TAX DEPRECIATION KOOLAU-WAILUPE #1

| 2018 | | 4,648 495 | 5,143 71,941 To page 1 | 0 | 9,296 495 | 9,791 14,620 To page 1 |
|--------------------------|----------------|--|------------------------|--------|--|------------------------------|
| 2017 | | 86,798 | 66,798 | | 4,829 | 4,829 |
| Bonus | | 50 | 1 | | 0 0 | 1 |
| Life | | 20 | | | 20 | |
| Plant Acet Life Bonus | | Trans | | | Trans | |
| Disallowed Costs | | 128,768 13,203 | 141,971 | | 128,768 13,203 | 141,971 |
| Less PUC Approved Amt | | 2,555,619 | 2,555,619 | | 2,555,619 | 2,555,619 |
| Total Basis | HECO-WP-D2-001 | 2,684,387 | 2,697,590 | | 2,684,387 13,203 | 2,697,590 |
| Description | | Koolau-Wailupe #1 Koolau-Wailupe #1 | Total Cumulative | | Koolau-Wailupe #1 Koolau-Wailupe #1 | Total Cumulative |
| DIS | | v2017 v2018 | | | v2017 v2018 | |
| Project No. | FEDERAL | PE000104 | | HAWAII | PE000104 | |

HAWAIIAN ELECTRIC CO., INC. EXCESS TAX DEPRECIATION ERP/EAM HARDWARE

| Project No. | DIS | Description | Total Basis | Less PUC Approved Amt | Disallowed Costs | Plant Acct Life Bonus | Life | Bonus | 2017 | 2018 |
|-------------|-------|------------------|----------------|--------------------------|---------------------|-----------------------|------|-------|-------|------------------------|
| FEDERAL | | | UECO WB D2 001 | | | | | | | |
| P0003205 | v2017 | ERP/EAM Hardware | 2,604,146 | 2,590,000 | 14,146 | 14,146 Computer | 8 | 50 | 8,488 | 2,263 |
| | | Total | 2,604,146 | 2,590,000 | 14,146 | | | 1 | 8,488 | 2,263 |
| | | Cumulative | | | | | | | 8,488 | 10,751 To page 1 |
| HAWAII | | | | | | | | | | |
| P0003205 | v2017 | ERP/EAM Hardware | 2,604,146 | 2,590,000 | 14,146 | 14,146 Computer | S | 0 | 2,829 | 4,527 |
| | | Total | 2,604,146 | 2,590,000 | 14,146 | | | | 2,829 | 4,527 |
| | | Cumulative | | | | | | l | 2,829 | 7,356 To page 1 |

HAWAIIAN ELECTRIC CO., INC. MPIR ADIT - SCHOFIELD GENERATING STATION DECEMBER 31, 2018

| DEC | EMIDER 31, 2016 | | | | | | | 2018 |
|-------------|---|-------------------|--------------------------|----------------------------|--------------------------|--------------------------|----------------------|--------------------------|
| | | source | Tax Depreciation | AFUDC | Tax Cap Interest | State ITC | Removal | Total |
| | FEDERAL DEFERRED TAXES |] | (page 2 of 5) | (page 3 of 5) | (page 3 of 5) | (page 3 of 5) | (page 5 of 5) | |
| 1 | State Book/Tax Difference Book Depreciation | HECO-WP-L-001 | (6,856,503) | (11,964,962) | 7,675,319 | 4,216,602 | (185,002) | (7,114,546) |
| 3 | Subtotal | Line 1 + Line 2 | (6,856,503) | (11,964,962) | 7,675,319 | 4,216,602 | (185,002) | (7,114,546) |
| 4 | Effective Federal Tax Rate | | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% |
| 5 | Federal Def Tax on State Book/Tax Diff | Line 3 * Line 4 | (1,353,254) | (2,361,501) | 1,514,862 | 832,222 | (36,513) | (1,404,184) |
| 6 7 8 | Addback State Book/Tax Difference Federal Book/Tax Difference Book Depreciation | Line 3 | 6,856,503 (6,856,502) | 11,964,962 (11,964,962) | (7,675,319) 7,675,319 | (4,216,602) 4,216,602 | 185,002 (185,002) | 7,114,546 (7,114,545) |
| 9 | Federal State Difference | Line $6 + 7 + 8$ | 1 | - | - | - | - | 1 |
| 10 | Tax Rate on Federal Only Adjustment | | 21% | 21% | 21% | 21% | 21% | 21% |
| 11 | Federal Deferred Tax Adjustment | Line 9 * Line 10 | - | - | - | - | - | - |
| 12 | Total Federal Deferred Taxes | Line 5 + Line 11 | (1,353,254) | (2,361,501) | 1,514,862 | 832,222 | (36,513) | (1,404,184) |
| | STATE DEFERRED TAXES |] | | | | | | To Sch D4 |
| 13 14 | | Line 1 Line 2 | (6,856,503) | (11,964,962) | 7,675,319 | 4,216,602 | (185,002) | (7,114,546) |
| 15 | Subtotal | Line 13 + Line 14 | (6,856,503) | (11,964,962) | 7,675,319 | 4,216,602 | (185,002) | (7,114,546) |
| 16 | Effective State Tax Rate | | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% |
| 17 | Total State Deferred Taxes | Line 15 * Line 16 | (412,421) | (719,697) | 461,673 | 253,630 | (11,128) | (427,943) |
| 18 | TOTAL DEFERRED TAXES | Line 12 + Line 17 | (1,765,675) | (3,081,198) | 1,976,535 | 1,085,852 | (47,641) | To Sch D4 (1,832,127) |

To Sch D4

HAWAIIAN ELECTRIC CO., INC. TAX DEPRECIATION SCHOFIELD GENERATION STATION

| | | | Less: | Add: | | | | | |
|-------------|------------------------------|-------------------|---------------------------------------|-----------|-------------|------------|------|-------|----------------|
| Project No. | Description | Book Basis | AFUDC | TCI | Tax Basis | Plant Acct | Life | Bonus | 2018 |
| | | | | | | | | | |
| FEDERAL | | | | | | | | | |
| P0001576 | Schofield Generation Station | 65,512,935 | (5,393,539) | 3,459,864 | 63,579,259 | Oth Prod | 15 | 0% | 3,178,963 |
| P0001576 | Schofield Generation Station | 65,512,935 | (5,393,539) | 3,459,864 | 63,579,259 | Oth Prod | 15 | 0% | 3,178,963 |
| P0001576 | Schofield Generation Station | 5,751,969 | (522,427) | 335,128 | 5,564,670 | Trans | 20 | 0% | 208,675 |
| P0001576 | Schofield Generation Station | 5,751,969 | (522,427) | 335,128 | 5,564,670 | Trans | 20 | 0% | 208,675 |
| P0001576 | Schofield Generation Station | 1,106,868 | (66,514) | 42,668 | 1,083,021 | Comm | 20 | 0% | 40,613 |
| P0001576 | Schofield Generation Station | 1,106,868 | (66,514) | 42,668 | 1,083,021 | Comm | 20 | 0% | 40,613 |
| | Total | 144 742 542 | (11,964,962) | 7 675 210 | 140,453,899 | | | | 6,856,502 |
| | | 144,743,542 | (11,904,902) | 7,675,319 | 140,433,899 | | | | |
| | Cumulative | | | | | | | | To page 1 of 5 |
| HAWAII | Ī | | | | | | | | |
| | _ | | | | | | | | |
| P0001576 | Schofield Generation Station | 131,025,869 | (10,787,079) | 6,919,727 | 127,158,518 | Oth Prod | 15 | 0 | 6,357,926 |
| P0001576 | Schofield Generation Station | 11,503,937 | (1,044,854) | 670,256 | 11,129,339 | Trans | 20 | 0 | 417,350 |
| P0001576 | Schofield Generation Station | 2,213,736 | (133,029) | 85,336 | 2,166,043 | Comm | 20 | 0 | 81,227 |
| | Total | 144,743,542 | (11,964,962) | 7,675,319 | 140,453,899 | | | | 6,856,503 |
| | Cumulative | | · · · · · · · · · · · · · · · · · · · | | | | | | To page 1 of 5 |

Hawaiian Electric Company, Inc. Breakdown of SGS Costs by Major Area Actuals through December 2018

| TOTAL PLANT ADDITIONS: | A | В | C | D | E=SUM(B:D) | F=A+E | |
|-------------------------------|---|-----------|-----------|-----------------------|--------------------------|---------------|------------------|
| Expense Element | Generating Station and Switchyard | 46kV Line | Telecom | Wahiawa Substation | Total Interconnection | Total Project | State ITC |
| Labor | 2,293,428 | 1,712,982 | 305,919 | 741,234 | 2,760,135 | 5,053,564 | |
| Materials | 32,932,285 | 1,523,772 | 545,040 | 512,566 | 2,581,378 | 35,513,663 | 35,513,663 |
| Vehicles | 2,062 | 117,109 | 187 | 563 | 117,859 | 119,921 | |
| Overheads | 12,885,912 | 2,456,221 | 544,975 | 928,736 | 3,929,932 | 16,815,844 | |
| AFUDC | 10,787,079 | 703,160 | 133,029 | 341,694 | 1,177,883 | 11,964,962 | |
| Outside Services-Construction | 69,147,360 | 614,746 | 59,095 | 80,179 | 754,019 | 69,901,379 | 69,901,379 |
| Outside Services-Other | 2,550,389 | 1,421,977 | 621,195 | 348,999 | 2,392,171 | 4,942,560 | |
| Other | 427,354 | - | 4,296 | - | 4,296 | 431,650 | |
| _ | 131,025,869 | 8,549,966 | 2,213,736 | 2,953,971 | 13,717,673 | 144,743,542 | |
| Amount subject to bonus (A) | 50% | 50% | 50% | 50% | 50% | 50% | 105,415,043 |
| - - | 65,512,935 | 4,274,983 | 1,106,868 | 1,476,985 | 6,858,836 | 72,371,771 | 4% |
| - | | | | | | | 4,216,602 |
| Tie out of TCI: | | | 5,751,969 | | | | To page 1 of 5 |
| AFUDC | 10,787,079 | 703,160 | 133,029 | 341,694 | 1,177,883 | 11,964,962 | To page 1 of 5 |
| ratio - 5 year average | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | From page 4 of 5 |
| TCI | 6,919,727 | 451,065 | 85,336 | 219,191 | 755,592 | 7,675,319 | To page 1 of 5 |
| | | | 670,256 | | | | |

Source: Ellipse & SAP

(A) - At year end, no bonus depreciation was taken for Schofield Generation Station. See page 2 for tax depreciation calculation.

Hawaiian Electric Company, Inc. Annual - TCI Closed to AFUDC Closed Ratio

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | 5 Yr Ave |
|-------|-------------|-------------|-------------|-------------|-------------|----------------|
| TCI | 3,820,695 | 4,825,860 | 4,299,588 | 4,056,549 | 5,041,274 | 22,043,966 |
| AFUDC | 5,511,275 | 7,365,025 | 6,668,924 | 6,540,575 | 8,278,273 | 34,364,072 |
| | | | | | | |
| Ratio | 0.693251 | 0.655240 | 0.644720 | 0.620213 | 0.608977 | 0.641483 |
| | | | | | | To page 3 of 5 |

Hawaiian Electric Company, Inc. MPIR Removal Costs Actuals Through December 31, 2018

| Row Labels | Sum of amount |
|--------------------|----------------|
| Labor | 90,530 |
| Materials | 46 |
| Overheads | 94,426 |
| Grand Total | 185,002 |
| | To page 1 of 5 |

SOURCE: Ellipse & SAP

Hawaiian Electric Company, Inc. 2018 Major Projects Excess Cost, Net of CIAC

| [1] | [1] | | [2] | [1] | | | | | [1] | [2] 2017 Net | [1] | [3] | [2] | To Sch D1 | |
|--------------------------|--|---------|------------------------|------------------------|-------|------------------------|-----------------|-----------------|------------|----------------------|-----------------|--------------|-------------------------|----------------------------|-------------------------|
| Grandparent # | | Date In | Net Plant Adds Thru | Net Plant Adds Thru | Plant | Docket No 2010-0053 | | | Net PUC | Cost in Excess of | | Depr Related | 2018 Depr Related to | Cumulative Depr Related | 2019 Depr Related to |
| or Project # | Project | Service | 12/31/17 | 12/31/18 | Acct | Depr Rate | 2018 Depr | 2019 Depr | Approved | Docket | Docket | to Excess | Excess | to Excess | Excess |
| | | | (A) | (B) | | (C) | (D) = (A) * (C) | (E) = (B) * (C) | (F) | (G) | (H) = (B) - (F) | (I) | (J) = (G) / (A) * (D) | (K) = (I) + (J) | (L) = (H) / (B) * (E) |
| PZ.000003/ (P0003205) | ERP EAM Hardware | 2017/06 | 2,604,146 | 2,604,146 | 391.1 | 0.20000 | 520,829 | 520,829 | 2,590,000 | 14,146 | 14,146 | - | 2,829 | 2,829 | 2,829 |
| PE.000104 (P0003465) | Koolau-Wailupe #1 Str 30 P9 Replace | 2017/07 | 2,684,387 | 2,697,590 | 356 | 0.03270 | 87,779 | 88,211 | 2,555,619 | 128,768 | 141,971 | - | 4,211 | 4,211 | 4,642 |
| PZ.000016/ PZ001002 | Schofield Generation | | | | | | | | | | | | | | |
| (P0001576) | Station - Note [4] | 2018/06 | - | 142,147,612 | 343 | 0.03260 | - | 4,634,012 | | | | | | | |
| | | | - | 2,003,490 | 352 | 0.01600 | - | 32,056 | | | | | | | |
| | | | - | 352,190 | 353 | 0.01860 | - | 6,551 | | | | | | | |
| | | | | 240,250 | 397 | 0.06670 | - | 16,025 | | | | | | | |
| | | | - | 144,743,542 | | | | 4,688,643 | - | - | 144,743,542 | - | - | - | 4,688,643 |

^[1] Source: HECO-WP-D2-001

^[2] Source: Transmittal No. 18-01 (Decoupling) - Hawaiian Electric Company RBA Rate Adjustment, HECO-WP-E-001, filed on May 29, 2018.

^[3] Source: Transmittal No. 18-01 (Decoupling) - RBA Rate Adjustment (Filed May 29, 2018), HECO-WP-E-001, column (L), "Cumulative Depr Related to Excess".

^[4] The Schofield Generation Station project is recovered via the Major Project Interim Recovery (MPIR) mechanism at the Schedule L series. As such, the entire project related costs will be excluded from all Decoupling calculations.

Hawaiian Electric Company Calculation of Composite Effective Income Tax Rates Federal and State

Composite Federal and State Effective Income Tax Rate

| | Eff 1/1/2018 | 2017 & Prior |
|-----------------------------------|--------------|--------------|
| Federal Effective Income Tax Rate | 19.7368421% | 32.8947368% |
| State Effective Income Tax Rate | 6.0150376% | 6.0150376% |
| | 25.7518797% | 38.9097744% |

Calculation of Effective Rates

Assumptions:

ST = State Income Tax Expense

FT = Federal Income Tax Expense

Pre-Tax Income = \$1.00 State Statutory Income Tax Rate*

Federal Statutory Income Tax Rate**

 Eff 1/1/2018
 2017 & Prior

 6.4%
 6.4%

 21.0%
 35.0%

Calculation of State Effective Income Tax Rate

State Income Tax Expense = Statutory Rate x (Pre-Tax Income - State Income Tax Expense)

 $ST = .064 \times (1 - ST)$

ST = .064 - .064(ST)

1.064(ST) = .064

ST = .060150376 or 6.0150376% of Pre-Tax Income

Calculation of Federal Effective Income Tax Rate

rederal Income Tax Expense = Statutory Rate x (Pre-Tax Income - State Income Tax Expense)

Effective 1/1/18

 $FT = .21 \times (1 - ST)$

 $FT = .21 \times (1 - .060150376)$

FT = .21 - .01263157896

FT = .197368421 or 19.7368421% of Pre-Tax Income

2017 & Prior

FT = .35 x (1 - ST)

 $FT = .35 \times (1 - .060150376)$

FT = .35 - .01263157896

FT = .328947368 or 32.8947368% of Pre-Tax Income

^{*} Hawaii Revised Statutes §235.71 was amended for tax years beginning after 1986.

^{**} The Tax Cuts and Jobs Act changed the Federal tax rate for tax years ending after December 31, 2017.

HAWAIIAN ELECTRIC COMPANY, INC. TAX REPAIRS ADJUSTMENT 2018

| | LIFE | HECO-WP- F1-002 5 YR AVERAGE | A Plant Adds | B HECO-WP- F1-001, pg 2 Repairs Allocation | C = A x B Repairs Deduction | D = A - C Depreciable Basis |
|----------------------|------|---------------------------------------|--------------|--|------------------------------|-------------------------------|
| Computers/PV | 5 | 6,092 | | | | |
| Communication | 20 | 5,920 | | | | |
| Off/Furn/Tools | 7 | 5,022 | | | | |
| Distribution | 20 | 130,472 | 130,472,000 | 19.67% | 25,659,352 | 104,812,648 |
| Land | - | 816 | | | | |
| Non-Steam Production | 15 | 3,713 | 3,713,000 | 0.04% | 1,582 | 3,711,418 |
| Steam Production | 20 | 22,905 | 22,905,000 | 28.28% | 6,477,859 | 16,427,141 |
| Structural | 39 | 3,265 | | | | |
| Transmission | 20 | 21,834 | 21,834,000 | 4.49% | 980,382 | 20,853,618 |
| Transmission | 15 | 34,674 | 34,674,000 | 4.49% | 1,556,918 | 33,117,082 |
| Vehicles | - | 5,209 | | | | |
| TOTAL | | 239,922 | 213,598,000 | | 34,676,093 | 178,921,907 |
| | | | | = | To Sch F1 | |

NOTE 1> This schedule computes the estimated amount of deductible tax repairs related to the baseline plant additions for the RAM year. The deductible tax repairs amounts are carried forward to Schedule F1 and serve to reduce the depreciable tax basis for the baseline plant additions. The repairs percentages (Column B) are calculated on HECO-WP-F1-001, page 2.

NOTE 2> The numbers (excluding %s) are rounded to the nearest thousand.

HAWAIIAN ELECTRIC COMPANY, INC. REPAIRS DEDUCTION

| | | Distribution | Non Steam | Steam | Transmission |
|--------------|----------------|--------------|-------------|-------------|--------------|
| Repairs %: | | | | | |
| - | basis repairs | | | | |
| 2014 | _ | 40,010,784 | | 8,698,003 | 1,620,540 |
| 2015 | | 28,855,969 | | 8,823,262 | 3,152,508 |
| 2016 | | 19,906,067 | | 6,512,311 | 2,697,168 |
| 2017 | | 24,350,324 | 71,857 | 5,491,680 | 4,271,225 |
| 2018 | | 23,503,387 | | 4,894,363 | 1,396,139 |
| | | | | | |
| | , | 136,626,531 | 71,857 | 34,419,619 | 13,137,580 |
| Total book l | basis adds | | | | |
| 2014 | HECO-WP-F1-002 | 139,366,000 | 12,311,000 | 30,119,000 | 57,957,000 |
| 2015 | HECO-WP-F1-002 | 150,513,000 | 5,613,000 | 25,823,000 | 48,871,000 |
| 2016 | HECO-WP-F1-002 | 117,566,000 | 268,000 | 24,812,000 | 79,269,000 |
| 2017 | HECO-WP-F1-002 | 147,966,000 | 1,658,000 | 22,867,000 | 73,183,000 |
| 2018 | HECO-WP-F1-002 | 139,304,000 | 148,783,000 | 18,083,000 | 33,306,000 |
| | | 694,715,000 | 168,633,000 | 121,704,000 | 292,586,000 |
| | | | | | |
| AVERAGE | 2 % | 19.666558% | 0.042611% | 28.281420% | 4.490160% |

NOTE 1> With the assistance of Price Waterhouse Coopers, the repairs deduction analysis was performed in 2010, 2012, 2015 and 2016 in connection with changing HECO's method of identifying deductible repairs for tax accounting purposes. The repairs percentage for each functional group represents the five year weighted average of the identified repairs costs.

NOTE 2> The numbers (excluding %s) are rounded to the nearest thousand.

HAWAIIAN ELECTRIC COMPANY, INC. BASELINE PLANT ADDS

| | | | | | | | LESS: MAJOR | | | % |
|----------------------|------|---------|---------|---------|---------|---------|----------------|-----------|---------|---------|
| | LIFE | 2014 | 2015 | 2016 | 2017 | 2018 | PROJECTS | TOTAL | AVERAGE | AVERAGE |
| Computers/PV | 5 | 6,681 | 8,980 | 5,219 | 7,587 | 4,596 | (2,604) | 30,459 | 6,092 | 2.54% |
| Communication | 20 | 5,340 | 5,183 | 5,870 | 7,349 | 6,611 | (754) | 29,599 | 5,920 | 2.47% |
| Off/Furn/Tools | 7 | 8,242 | 4,315 | 2,964 | 5,204 | 4,384 | . , | 25,109 | 5,022 | 2.09% |
| Distribution | 20 | 139,366 | 150,513 | 117,566 | 147,966 | 139,304 | (42,353) | 652,362 | 130,472 | 54.38% |
| Land | - | 1,729 | 1,233 | 11 | 262 | 847 | | 4,082 | 816 | 0.34% |
| Non-Steam Production | 15 | 12,311 | 5,613 | 268 | 1,658 | 148,783 | (150,069) | 18,564 | 3,713 | 1.55% |
| Steam Production | 20 | 30,119 | 25,823 | 24,812 | 22,867 | 18,083 | (7,178) | 114,526 | 22,905 | 9.55% |
| Structural | 39 | 2,899 | 5,468 | 1,647 | 5,217 | 1,092 | | 16,323 | 3,265 | 1.36% |
| | | | | | | | | | | |
| Transmission | 20 | 13,295 | 21,461 | 38,676 | 29,442 | 8,994 | (2,698) | 109,170 | 21,834 | 9.10% |
| Transmission > 69kv | 15 | 44,662 | 27,410 | 40,593 | 43,741 | 24,312 | (7,349) | 173,369 | 34,674 | 14.45% |
| | | 57,957 | 48,871 | 79,269 | 73,183 | 33,306 | (10,047) | 282,539 | 56,508 | 23.55% |
| | | | | | | | | | | |
| Vehicles | - | 4,682 | 10,540 | 3,665 | 5,460 | 1,697 | | 26,044 | 5,209 | 2.17% |
| | | | | | | | | | | |
| TOTAL | | 269,326 | 266,539 | 241,291 | 276,753 | 358,703 | (213,005) | 1,199,607 | 239,921 | 100.00% |

To WP-F1-001

HAWAIIAN ELECTRIC CO., INC. PRORATION ADJUSTMENT FOR NORMALIZATION COMPLIANCE FEDERAL ADIT DR/(CR)

| ADIT account 282 Federal accelerated depreciation | Federal ADIT DR/(CR) | January | February | March | April | May | June | July | August | September | October | November | December | |
|---|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------|
| Beginning balance Sch D4 | (208,749,171) | | | | | | | | | | | | | |
| Federal Tax Depreciation Effective Federal Tax Rate Net ADIT accrued 2019 | (20,239,341) 19.7368% (3,994,598) | | | | | | | | | | | | | |
| Monthly Accrued evenly over 12 month | (332,883) | | | | | | | | | | | | | |
| WITHOUT PRORATION Federal 282 ADIT Balance | Beg of Yr | January | February | March | April | May | June | July | August | September | October | November | December | End of Yr |
| Monthly Additions Cumulative Balance | (208,749,171) (208,749,171) | (332,883) (209,082,054) | (332,883) (209,414,937) | (332,883) (209,747,821) | (332,883) (210,080,704) | (332,883) (210,413,587) | (332,883) (210,746,470) | (332,883) (211,079,353) | (332,883) (211,412,237) | (332,883) (211,745,120) | (332,883) (212,078,003) | (332,883) (212,410,886) | (332,883) (212,743,769) | (3,994,598) (212,743,769) |
| | | | | | | | | | | | Simple Yea | ar Average - Wit | hout Proration | (210,746,470) |
| WITH PRORATION Days new rates in effect 6/1/2019 Prorated additions Cumulative ADIT balance with proratio | | (332,883) (209,082,054) | (332,883) (209,414,937) | (332,883) (209,747,821) | (332,883) (210,080,704) | (332,883) (210,413,587) | (287,773) (210,701,360) | (239,551) (210,940,911) | (191,330) (211,132,241) | (144,664) (211,276,905) | (96,443) (211,373,348) | (49,777) (211,423,125) | (1,556) (211,424,681) | (2,675,510) (211,424,681) |
| | | | | | | | | | | | Simple | Year Average - V | With Proration | (210,086,926) |
| | | | | | | | | | | | A | djustment to rat | | 659,544 To Schedule F |
| Days new rate in effect | | 335 | 307 | 276 | 246 | 215 | 185 | 154 | 123 | 93 | 62 | 32 | 1 | |
| Days in the month | | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 30 | 31 | 365 |

Note: Methodology based on IRS Private Letter Ruling 9313008

HAWAIIAN ELECTRIC COMPANY, INC. AVERAGE RATE BASE AND RATE OF RETURN (\$ Thousands)

| INVESTMENTS IN ASSETS SERVING CUSTOMERS NETCOST OF PLANT IN SERVICE Total Unliny Plant 3,330,923 3,523,249 Note 2 Adjustments: Construction Work in Progress (245,995) (550,571) Note 2 (37,480) (37,283) (37,480) (37,483) (| | Month-End | | |
|--|--|-----------|-----------|------------------------|
| NET COST OF PLANT IN SERVICE Total Utility Plant Adjustments: | RATE BASE | Dec 2017 | Dec 2018 | REFERENCE |
| NET COST OF PLANT IN SERVICE Total Utility Plant Adjustments: | INVESTMENTS IN ASSETS SERVING CHSTOMERS | | | |
| Total Utility Plant Adjustments: Construction Work in Progress Regulatory Asset - ARO Regulatory Lability for Cost of Removal Regulatory Lability for Cost Regulatory Regula | | | | |
| Adjustments: Construction Work in Progress Regulatory Asset: ARO Asset Retirement Obligation Regulatory Lisability for Cost of Removal Regulatory Lisability for Cost of Regulatory Regulatory Lisability for Cost of Removal Regulatory Lisabil | | 2 220 022 | 2 522 240 | Note 2 |
| Construction Work in Progress C45.995 C550,571 Note 2 Regulatory Asset - ARO - 331 GLF18870151 C151870151 C152301000 C1523010000 C152301000 C1523010000 C1523010000 C1523010000 C1523010000 C1523010000 C1523010000 C1523010000000 C1523010000000000000000000000000000000000 | • | 3,330,923 | 3,323,249 | Note 2 |
| Regulatory Assert - ARO | • | (245.005) | (550,551) | N. 4. 2 |
| Asset Retirement Obligation C,3539 (4,780) GL#25301000 Regulatory Liability for Cost of Removal (327,225) (356,926) (356 | | (245,995) | | |
| Regulatory Liability For Cost of Removal (327,225) (356,926) GL#25400001 Plant - Tenant Allowance (14,088) (14,132) | | (2.520) | | |
| Plant - Tenant Allowance | | | | |
| Acc Amort - Tenant Allowance 8,662 9,824 GLJ 1160000 Unbilled Pole Credits 2,749,768 2,602,560 Note 1 FUEL INVENTORY 64,972 54,262 Note 2 FUEL INVENTORY 64,972 54,262 Note 2 MATERIALS & SUPPLIES INVENTORIES (excl Stores Expense) 26,517 27,953 GLJ 810400, Note 2 UNAMORT NET ASC 740 REG ASSET 115,531 96,993 GLJ 81676040 OPEB TRACKING REG ASSET 115,531 96,993 GLJ 81677040 OPEB TRACKING REG ASSET 3,112 - GLJ 18677040 PENION NON-SERVICE COST REG ASSET 89 20 GLJ 81677045 EOFP REG ASSET 89 20 GLJ 8167104/5/6 CIP CT-I REG ASSET 89 20 GLJ 8167102/12/12 DEFERRED SYSTEM DEVELOPMENT COSTS 31,22 795 GLJ 8167012/2/12/2 DEFERRED SYSTEM DEVELOPMENT COSTS 746 445 GLJ 81607004 HR Suites-Phase 1 1,307 951 GLJ 81606004 HR Suites-Phase 2 512 384 GLJ 81606004 HR Suites-Phase 2 512 384 GLJ 81606004 HR Suites-Phase 3 1,400 883 GLJ 81606004 HR Suites-Phase 6 1,207 951 GLJ 81606004 GIS 9,046 7,827 Acctg Dept Amort Sch CIS 9,046 11,229 RO WATER PIPELINE REG ASSET 4,842 4,725 GLJ 8670152 RO WATER PIPELINE REG ASSET 4,842 4,725 GLJ 8670152 RO WATER PIPELINE REG ASSET 4,842 4,725 GLJ 8670152 RO WATER PIPELINE REG ASSET 3,064,95 2,876,885 FUNDS FROM NON-INVESTORS 3,064,95 2,876 | | | | |
| Unbilled Pole Credits | | | | |
| FUEL INVENTORY MATERIALS & SUPPLIES INVENTORIES (excl Stores Expense) MATERIALS & SUPPLIES INVENTORIES (excl Stores Expense) LUNAMORT NET ASC 740 REG ASSET PENSION TRACKING REG ILIAB PENSION TRA | | 8,662 | | |
| FUEL INVENTORY 64,972 | Unbilled Pole Credits | | | |
| MATERIALS & SUPPLIES INVENTORIES (excl Stores Expense) 26,517 27,953 GL#90154000, Note 2 UNAMORT NET ASC 740 REG ASSET 78,576 77,465 ADIT Tax Sch PENSION TRACKING REG ASSET 115,531 96,993 GL#1867040 OPEB TRACKING REG ASSET 3,112 - GL#1867040 PENION NON-SERVICE COST REG ASSET - 883 GL#1867045 PENION NON-SERVICE COST REG ASSET - 889 20 GL#18670124/5/6 CIP CT-1 REG ASSET - 1,352 795 GL#18670124/5/6 CIP CT-1 REG ASSET - 1,352 795 GL#18670124/5/6 CIP CT-1 REG ASSET - 1,307 951 GL#18607004 HR Suites-Phase 1 - 1,307 951 GL#18607004 HR Suites-Phase 2 512 384 GL#18606104 Budget System Replacement Project 885 739 GL#1860704 IVR - 1,000 883 GL#18670400 CIS - 9,046 7,827 Acctg Dept Amort Sch CIS - 9,046 7,827 Acctg Dept Amort Sch CONTRIB IN EXCESS OF NPPC 2,240 - GL#18670152 CONTRIB IN EXCESS OF NPPC 2,240 - GL#18676030 TOTAL INVESTMENTS IN ASSETS 365,482 30,110 Note 5 CUSTOMER ADVANCES - GL#18676030 UNAMORTIZED CIAC 365,482 30,110 Note 5 CUSTOMER ADVANCES - GL#18676030 Developer Advances 4,239 6,392 GL#25200000 Developer Advances 33,884 21,345 Note 3 ACCUMULATED DEF INCOME TAXES 283,136 28,695 Schedule D4 EXCESS ACCUMULATED DEF INCOME TAXES 278,582 278,156 GL#255200002000 UNAMORTIZED CIC (CROSS) 57,594 58,897 GL#255200002000 UNAMORTIZED GAIN ON SALE 182 116 GL#25500000 UNAMORTIZED FEDERALE V CREDIT 750 724 GL#25500000 UNAMORTIZED FEDERALE | | | | |
| UNAMORT NET ASC 740 REG ASSET 78,576 77,465 ADIT Tax Sch | | | | |
| PENSION TRACKING REG ASSET 115,531 96,993 GL#18676040 OPEB TRACKING REG ASSET 3,112 - | MATERIALS & SUPPLIES INVENTORIES (excl Stores Expense) | 26,517 | 27,953 | GL#90154000, Note 2 |
| OPEB TRACKING REG ASSET 3,112 - GL#18677040 PENION NON-SERVICE COST REG ASSET - 88 GL#18670124/5/6 CIP CT-1 REG ASSET 1,352 795 GL#18670124/5/6 CIP CT-1 REG ASSET 1,352 795 GL#18670124/5/6 CIP CT-1 REG ASSET 1,352 795 GL#18607004 DMS 746 445 GL#18607004 HR Suites-Phase 1 1,307 951 GL#18607004 HR Suites-Phase 2 512 384 GL#1860704 Budget System Replacement Project 885 739 GL#1860704 IVR 1,000 883 GL#1860704 IVR 1,004 7,827 Acctip Dept Amort Sch | UNAMORT NET ASC 740 REG ASSET | 78,576 | 77,465 | ADIT Tax Sch |
| PENION NON-SERVICE COST REG ASSET EOTP REG ASSET EOTP REG ASSET EOTP REG ASSET 1,352 795 GL#18670124/5/6 CIP CT-I REG ASSET OMS OMS 746 HR Suites-Phase 1 1,307 951 GL#18607004 HR Suites-Phase 2 512 384 GL#18606104 Budget System Replacement Project 1VR 1,000 883 GL#1860704 IVR 1,000 883 GL#18607704 IVR 1,000 CIS 9,046 7,827 Acetg Dept Amort Sch CONTRIB IN EXCESS OF NPPC 2,240 TOTAL INVESTMENTS IN ASSETS 3,060,495 TOTAL INVESTMENTS IN ASSETS 3,3844 2,1345 CUSTOMER ADVANCES CUSTOMER DEPOSITS ACCUMULATED DEF INCOME TAXES 283,136 283,659 EXCESS ACCUMULATED DEF INCOME TAXES 278,582 EXCESS ACCUMULATED DEF INCOME TAXES 278,582 EXCESS ACCUMULATED DEF INCOME TAXES 182 CUNAMORTIZED TEC (GROSS) 57,594 EXCESS ACCUMULATED DEF INCOME TAXES 182 CUNAMORTIZED TEC (GROSS) 5,75,94 CL#25000002004 CUNAMORTIZED TEC (GROSS) 5,75,94 CL#250000020004 CUNAMORTIZED TEC (GROSS) 5,75,94 CL#25000002004 CUNAMORTIZED TEDERAL EV CREDIT CUNAMORTIZED TEC (GROSS) 5,75,94 CL#250000020004 CUNAMORTIZED GAIN ON SALE 182 CL#25400002 CL#25400004 CL#25400002 CL#25400002 CL#25400004 CL#25400002 CL#25400002 CL#25400004 CL#25400002 CL#25400004 CL#25400005 CL#25400004 CL#25400004 CL#25400005 CL#2540005 CL#25400005 CL#2540005 CL#2 | PENSION TRACKING REG ASSET | 115,531 | 96,993 | GL#18676040 |
| EOTP REG ASSET | OPEB TRACKING REG ASSET | 3,112 | - | GL#18677040 |
| CIP CT-1 REG ASSET 1,352 795 GL#18670120/21/22 | PENION NON-SERVICE COST REG ASSET | - | 883 | GL#18676045 |
| DEFERRED SYSTEM DEVELOPMENT COSTS OMS | EOTP REG ASSET | 89 | 20 | GL#18670124/5/6 |
| OMS 746 445 GL#18607004 HR Suites-Phase 1 1,307 951 GL#18606004 HR Suites-Phase 2 512 384 GL#18606104 Budget System Replacement Project 885 739 GL#18607704 IVR 1,000 883 GL#18670400 CIS 9,046 7,827 Acctg Dept Amort Sch IVR 13,496 11,229 Acctg Dept Amort Sch RO WATER PIPELINE REG ASSET 4,842 4,725 GL#18670152 CONTRIB IN EXCESS OF NPPC 2,240 - GL#18676030 TOTAL INVESTMENTS IN ASSETS 3,060,495 2,876,885 FUNDS FROM NON-INVESTORS UNAMORTIZED CIAC 365,482 30,110 Note 5 CUSTOMER ADVANCES 33,884 21,345 Note 3 Note 3 CUSTOMER ADVANCES 38,123 27,737 Note 3 GL#25200000 Developer Advances 4,239 6,392 GL#25200000 GL#25500000 ACCUSTOMER DEPOSITS 11,113 10,409 GL#25500000 GL#25500000 | CIP CT-1 REG ASSET | 1,352 | 795 | GL#18670120/21/22 |
| HR Suites-Phase 1 | DEFERRED SYSTEM DEVELOPMENT COSTS | | | |
| HR Suites-Phase 2 512 384 GL#18606104 Budget System Replacement Project 885 739 GL#18607704 IVR 1,000 883 GL#18670400 CIS 9,046 7,827 Acctg Dept Amort Sch 13,496 11,229 RO WATER PIPELINE REG ASSET 4,842 4,725 GL#18670152 CONTRIB IN EXCESS OF NPPC 2,240 - GL#18676030 TOTAL INVESTMENTS IN ASSETS 3,060,495 2,876,885 FUNDS FROM NON-INVESTORS UNAMORTIZED CIAC 365,482 30,110 Note 5 CUSTOMER ADVANCES 2,240 - GL#18676030 CUSTOMER ADVANCES 33,884 21,345 Note 3 CUSTOMER DEPOSITS 11,113 10,409 GL#23501000 ACCUMULATED DEF INCOME TAXES 283,136 283,659 Schedule D4 EXCESS ACCUMULATED DEF INCOME TAXES 278,582 278,156 GL#2550000/230/24, Note 4 UNAMORTIZED FEDERAL EV CREDIT 750 724 GL#2550000/20004 UNAMORTIZED GAIN ON SALE 182 116 GL#2550000/20004 UNAMORTIZED GAIN ON SALE 182 116 GL#2550000/20004 UNAMORTIZED GAIN ON SALE 182 116 GL#25500000/20004 UNAMORTIZED GAIN ON SALE 182 116 GL#25500000/20004 UNAMORTIZED FEDERAL EV CREDIT 750 724 GL#25500000/20004 UNAMORTIZED GAIN ON SALE 182 116 GL#25500000/20004 UNAMORTIZED FEDERAL EV CREDIT 750 724 GL#25500000/20004 UNAMORTIZED FEDERAL EV CREDIT 750 724 GL#25500000/20004 UNAMORTIZED FEDERAL EV CREDIT 750 724 GL#25500000/20004 UNAMORTIZED GAIN ON SALE 182 116 GL#25400101/02/09 PENSION TRACKING REG LIAB 5,443 1,858 GL#25400004 OPEB TRACKING REG LIAB 5,443 1,858 GL#254000004 OPED TRACKING REG LIAB 5,443 1,858 GL#254000004 OPE | OMS | 746 | 445 | GL#18607004 |
| Budget System Replacement Project 100 | HR Suites-Phase 1 | 1,307 | 951 | GL#18606004 |
| Budget System Replacement Project 100 | HR Suites-Phase 2 | 512 | 384 | GL#18606104 |
| IVR | Budget System Replacement Project | 885 | 739 | GL#18607704 |
| CIS 9,046 7,827 Acetg Dept Amort Sch 13,496 11,229 11,229 12,240 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1,229 1 | | 1.000 | 883 | GL#18670400 |
| RO WATER PIPELINE REG ASSET 4,842 4,725 GL#18670152 CONTRIB IN EXCESS OF NPPC 2,240 - GL#18676030 TOTAL INVESTMENTS IN ASSETS 3,060,495 2,876,885 FUNDS FROM NON-INVESTORS | | | | Acctg Dept Amort Sch |
| RO WATER PIPELINE REG ASSET 4,842 4,725 GL#18670152 CONTRIB IN EXCESS OF NPPC 2,240 - GL#18676030 TOTAL INVESTMENTS IN ASSETS 3,060,495 2,876,885 FUNDS FROM NON-INVESTORS UNAMORTIZED CIAC 365,482 30,110 Note 5 CUSTOMER ADVANCES Customer Advances 4,239 6,392 GL#25200000 Developer Advances 33,884 21,345 Note 3 CUSTOMER DEPOSITS 11,113 10,409 GL#23501000 ACCUMULATED DEF INCOME TAXES 283,136 283,659 Schedule D4 EXCESS ACCUMULATED DEF INCOME TAXES 278,582 278,156 GL#25400023/24, Note 4 UNAMORTIZED ITC (GROSS) 57,594 58,897 GL#25520000/20004 UNAMORTIZED GAIN ON SALE 182 116 GL#2540011/02/09 PENSION TRACKING REG LIAB - 3,478 GL#25500004 OPEB TRACKING REG LIAB 5,443 1,858 GL#25400004 OPEB TRACKING REG LIAB 5,443 1,858 GL#25400004 OPEB TRACKING REG LIAB 5,443 1,858 GL#25400004 WORKING CASH 7,068 11,027 HECO-WP-H-008 RATE BASE 2,027,158 2,192,768 | | | | 8 1 |
| CONTRIB IN EXCESS OF NPPC | RO WATER PIPELINE REG ASSET | | | GI #18670152 |
| TOTAL INVESTMENTS IN ASSETS 3,060,495 2,876,885 | | | -,,,25 | |
| FUNDS FROM NON-INVESTORS UNAMORTIZED CIAC CUSTOMER ADVANCES Customer Advances Developer Advances CUSTOMER DEPOSITS ACCUMULATED DEF INCOME TAXES EXCESS ACCUMULATED DEF INCOME TAXES UNAMORTIZED ITC (GROSS) UNAMORTIZED FEDERAL EV CREDIT UNAMORTIZED GAIN ON SALE PENSION TRACKING REG LIAB OPEB TRACKING REG LIAB TOTAL DEDUCTIONS RATE BASE 236,3482 30,110 Note 5 61,425200000 A(2,23501000) A(3,24) A(4,24) A(5,24) A(4,24) A(4,04) A(4,04) A(5,24) A(6,24) A(7,068) A(7, | | . ———— - | 2,876,885 | 32/100/0000 |
| UNAMORTIZED CIAC CUSTOMER ADVANCES Customer Advances | | ,,,,,,, | ,, | |
| CUSTOMER ADVANCES Customer Advances | | | | |
| Customer Advances 4,239 6,392 GL#25200000 Developer Advances 33,884 21,345 Note 3 CUSTOMER DEPOSITS 11,113 10,409 GL#23501000 ACCUMULATED DEF INCOME TAXES 283,136 283,659 Schedule D4 EXCESS ACCUMULATED DEF INCOME TAXES 278,582 278,156 GL#25400023/24, Note 4 UNAMORTIZED ITC (GROSS) 57,594 58,897 GL#2550000/20004 UNAMORTIZED FEDERAL EV CREDIT 750 724 GL#25503000 UNAMORTIZED GAIN ON SALE 182 116 GL#25400101/02/09 PENSION TRACKING REG LIAB - 3,478 GL#25400004 OPEB TRACKING REG LIAB 5,443 1,858 GL#25400002 TOTAL DEDUCTIONS 1,040,405 695,144 WORKING CASH 7,068 11,027 HECO-WP-H-008 RATE BASE 2,027,158 2,192,768 | | 365,482 | 30,110 | Note 5 |
| Developer Advances 33,884 21,345 Note 3 | | | | |
| 38,123 27,737 | | | | |
| CUSTOMER DEPOSITS 11,113 10,409 GL#23501000 ACCUMULATED DEF INCOME TAXES 283,136 283,659 Schedule D4 EXCESS ACCUMULATED DEF INCOME TAXES 278,582 278,156 GL#25400023/24, Note 4 UNAMORTIZED ITC (GROSS) 57,594 58,897 GL#25520000/20004 UNAMORTIZED FEDERAL EV CREDIT 750 724 GL#25503000 UNAMORTIZED GAIN ON SALE 182 116 GL#25400101/02/09 PENSION TRACKING REG LIAB - 3,478 GL#25400004 OPEB TRACKING REG LIAB 5,443 1,858 GL#25400002 TOTAL DEDUCTIONS 1,040,405 695,144 WORKING CASH 7,068 11,027 HECO-WP-H-008 RATE BASE 2,027,158 2,192,768 | Developer Advances | | | Note 3 |
| ACCUMULATED DEF INCOME TAXES EXCESS ACCUMULATED DEF INCOME TAXES EXCESS ACCUMULATED DEF INCOME TAXES UNAMORTIZED ITC (GROSS) UNAMORTIZED ITC (GROSS) UNAMORTIZED FEDERAL EV CREDIT UNAMORTIZED GAIN ON SALE PENSION TRACKING REG LIAB OPEB TRACKING REG LIAB TOTAL DEDUCTIONS TOTAL DEDUCTIONS 1,040,405 EXCESS ACCUMULATED DEF INCOME TAXES 283,659 Schedule D4 6L#25400023/24, Note 4 6L#25520000/20004 6L#25520000/20004 6L#25520000/20004 6L#25503000 6L#25503000 6L#25503000 6L#25503000 6L#25400101/02/09 6L#25400101/02/09 6L#25400004 | | 38,123 | 27,737 | |
| EXCESS ACCUMULATED DEF INCOME TAXES 278,582 278,156 GL#25400023/24, Note 4 UNAMORTIZED ITC (GROSS) 57,594 58,897 GL#25520000/20004 UNAMORTIZED FEDERAL EV CREDIT 750 724 GL#25503000 UNAMORTIZED GAIN ON SALE 182 116 GL#25400101/02/09 PENSION TRACKING REG LIAB - 3,478 GL#25400004 OPEB TRACKING REG LIAB 5,443 1,858 GL#25400002 TOTAL DEDUCTIONS 1,040,405 695,144 WORKING CASH 7,068 11,027 HECO-WP-H-008 RATE BASE 2,027,158 2,192,768 | CUSTOMER DEPOSITS | | | GL#23501000 |
| UNAMORTIZED ITC (GROSS) 57,594 58,897 GL#25520000/20004 UNAMORTIZED FEDERAL EV CREDIT 750 724 GL#25503000 UNAMORTIZED GAIN ON SALE 182 116 GL#25400101/02/09 PENSION TRACKING REG LIAB - 3,478 GL#25400004 OPEB TRACKING REG LIAB 5,443 1,858 GL#25400002 TOTAL DEDUCTIONS 1,040,405 695,144 WORKING CASH 7,068 11,027 HECO-WP-H-008 RATE BASE 2,027,158 2,192,768 | | 283,136 | 283,659 | Schedule D4 |
| UNAMORTIZED FEDERAL EV CREDIT 750 724 GL#25503000 UNAMORTIZED GAIN ON SALE 182 116 GL#25400101/02/09 PENSION TRACKING REG LIAB - 3,478 GL#25400004 OPEB TRACKING REG LIAB 5,443 1,858 GL#25400002 TOTAL DEDUCTIONS 1,040,405 695,144 WORKING CASH 7,068 11,027 HECO-WP-H-008 RATE BASE 2,027,158 2,192,768 | EXCESS ACCUMULATED DEF INCOME TAXES | 278,582 | 278,156 | GL#25400023/24, Note 4 |
| UNAMORTIZED GAIN ON SALE 182 116 GL#25400101/02/09 PENSION TRACKING REG LIAB - 3,478 GL#25400004 OPEB TRACKING REG LIAB 5,443 1,858 GL#25400002 TOTAL DEDUCTIONS 1,040,405 695,144 WORKING CASH 7,068 11,027 HECO-WP-H-008 RATE BASE 2,027,158 2,192,768 | UNAMORTIZED ITC (GROSS) | 57,594 | 58,897 | GL#25520000/20004 |
| PENSION TRACKING REG LIAB - 3,478 GL#25400004 OPEB TRACKING REG LIAB 5,443 1,858 GL#25400002 TOTAL DEDUCTIONS 1,040,405 695,144 WORKING CASH 7,068 11,027 HECO-WP-H-008 RATE BASE 2,027,158 2,192,768 | UNAMORTIZED FEDERAL EV CREDIT | 750 | 724 | GL#25503000 |
| OPEB TRACKING REG LIAB TOTAL DEDUCTIONS 5,443 1,858 GL#25400002 WORKING CASH 7,068 11,027 HECO-WP-H-008 RATE BASE 2,027,158 2,192,768 | UNAMORTIZED GAIN ON SALE | 182 | 116 | GL#25400101/02/09 |
| TOTAL DEDUCTIONS 1,040,405 695,144 WORKING CASH 7,068 11,027 HECO-WP-H-008 RATE BASE 2,027,158 2,192,768 | PENSION TRACKING REG LIAB | - | 3,478 | GL#25400004 |
| WORKING CASH 7,068 11,027 HECO-WP-H-008 RATE BASE 2,027,158 2,192,768 | OPEB TRACKING REG LIAB | 5,443 | 1,858 | GL#25400002 |
| RATE BASE 2,027,158 2,192,768 | TOTAL DEDUCTIONS | 1,040,405 | 695,144 | |
| | WORKING CASH | 7,068 | 11,027 | HECO-WP-H-008 |
| SIMPLE AVERAGE RATE BASE 2,109,963 To Schedule H | RATE BASE | 2,027,158 | 2,192,768 | |
| | SIMPLE AVERAGE RATE BASE | Г | 2,109,963 | To Schedule H |

Footnotes:

- * Amounts may not add up due to rounding.
- 1 Includes Property Held for Future Use balance of \$0 for 2018 and 2017.
- 2 See Hawaiian Electric Company Inc. Monthly Financial Report December 2018, filed February 28, 2019.
 Note that Materials & Supplies Inventory include an adjustment of (\$1,116) and (\$1,489) representing payment lags in 2017 and 2018, respectively.
- 3 The Company reclassified cash received from Developers, subject to refund, to Customer Advances. Amount has been isolated for greater transparency within the rate base calculation. See further discussion at Schedule G.
- 4 As a result of the 2017 Tax Reform Act, Regulatory Liability accounts were created to isolate the impact of the 2017 excess accumulated deferred taxes effective in actuals as of December 2017. These Regulatory Liabilities have been included as a reduction to Rate Base. Deferred tax asset related to excess accumulated deferred taxes is included in Unamortized Net ASC 740 Reg Asset.
- 5 For 2018, CIAC is netted with Plant In Service, CWIP and Developer Advances, resulting from the Company's transition to FERC treatment in October 2018. See further discussion of the Company's treatment of CIAC at HECO-WP-D1-001.

HAWAIIAN ELECTRIC COMPANY, INC.

Ratemaking Adjustments For Incentive Compensation And Other Non-Recoverable Expenses $2018\,$

| Line | Account/Order No. | Description | | 2018 | Tax @ 25.75% | Net of Tax | Rounded (000s) |
|------|--------------------------------|---|------------|-----------|-----------------|---------------|----------------|
| 1 | Executive Compensation | and Incentive Compensation | | | | | |
| 2 | 70025/26/#60003110 | LTIP and EICP expense | (a) | 3,310,738 | | | |
| 3 | 70027/ #60004000 | Other incentive awards | () | 828,135 | | | |
| 4 | Provided by HEI | HEI charges for incentive compensation | (a) | 692,751 | | | |
| 5 | Non-Executive Incentive | | () | ĺ | | | |
| | Wksht | Non-executive incentive programs | (a) | 457,781 | | | |
| 6 | 70028/ #60003110 | Manager award plan | (a) | 195,785 | | | |
| 7 | | | | 5,485,190 | 1,412,540 | 4,072,650 | 4,073 |
| | | | | | | To Sc | h H, Line 2A |
| 8 | Discretionary and Other | Expenses Not Recoverable | | | | | |
| 9 | #60004009 | Executive life insurance(COLI) expense (credit) - | | | | | |
| | | not tax deduct | | (442,516) | | | |
| 10 | Provided by HEI | EEI Dues (allowed portion) - not tax deduct | | 47,722 | | | |
| 11 | 70014/ #60004034 | OPEB (Executive life portion only) | | 440,216 | | | |
| | 70016 | HEIRS | | 7,902 | | | |
| 13 | Provided by HEI | HEI charges for non-incentive comp (salaries/benefits - | | | | | |
| | | Executives (labor) | (a) | 524,810 | | | |
| 14 | Provided by HEI | HEI charges for outside services (plan admin, legal fees, | | | | | |
| | | audit fees) - Executives (non-labor) | | 74,279 | | | |
| 15 | 70014/24/ #60004035/36 | Non-qualified pension expense | | 475,342 | | | |
| 16 | #60018015 | Payroll taxes related to incentive compensation | | 173,390 | | | |
| 17 | 70011/70012 | Service awards program | | 63,045 | | | |
| 18 | Various | Community service admin - AUW (labor) | (a) | 90,346 | | | |
| 19 | 50100 | Community service admin - AUW (non-labor) | _ | 99,926 | | | |
| 20 | | | | 1,554,462 | 501,970 | 1,052,492 | 1,052 |
| | | | | | | To Sc | h H, Line 2B |
| 21 | Total Adjustmnent to Op | perating Income | - | 7,039,652 | 1,914,510 | 5,125,142 | |
| | • | | = | | To HECO-WI | P-H-008, Pg 1 | |
| | | | | | | | |
| | | Labor | \sum (a) | 5,272,211 | To HECO-WI | , 0 | |
| | | Non-labor | _ | 1,767,441 | To HECO-WI | P-H-008, Pg 1 | |
| | | Total adjustment to operating income | _ | 7,039,652 | - | | |

$\begin{array}{c} \text{HAWAIIAN ELECTRIC COMPANY, INC.} \\ \text{Income Tax On Items To Be Replaced By Synchronized Interest} \\ 2018 \end{array}$

| | Source | YTD | Rounded (000s) |
|--------------------------------|---------------------|----------------------|----------------------------|
| Total Interest Charges | GL# RONE70 | 52,180,277 | |
| Remove: RBA Interest Income | GL# 41900002 | 776,680 | |
| Less: Int on Customer Deposits | GL# 60016050 | (631,778) | |
| AFUDC-Debt | GL# RONE69 | (4,018,998) | |
| Amort of Inv Inc Differential | within GL# 60001010 | 184,971 | 185 To Sch H, Line 2C |
| Equity in net income of trust | GL# 42107000 | (100,516) | |
| | Tax rate | 48,390,636 25.75% | |
| | | 12,460,589 | (12,461) To Sch H, Line 2D |

HAWAIIAN ELECTRIC COMPANY, INC. Ratemaking Capitalization 2018

| | Simple Average Balance* | Ratios | Cost Rate | Weighted Cost of Debt |
|-----------------------------------|----------------------------|-------------------|----------------|--------------------------|
| Chart Tarra Dalit | 00 060 | 3.68% | 2.540/ | 0.000/ |
| Short-Term Debt | 88,868 | 38.92% | 2.54% 5.03% | 0.09% |
| Long-Term Debt | 939,810 | 38.92% 1.19% | 3.03% 7.16% | 1.96% |
| Hybrid Securities Preferred Stock | 28,758 | 0.88% | | 0.09% |
| | 21,192 | | 5.36% | 0.05% |
| Common Equity | 1,335,921 2,414,549 | 55.33% 100.00% | 9.50%_ | 5.26% 7.45% |
| | 2,414,349 | 100.0076 | | 7.4370 |
| | NARUC/ | YTD | Rounded | Cost |
| | GL Code | Dec 2018 | (000s) | Rate |
| Short-Term Debt: | | | | |
| Interest on Debt Assoc Co | 60016060/61 | 2,108,154 | | |
| Less: Interest on QUIDS | QUIDS (see below) | (2,050,516) | | |
| Int Exp-Commercial Paper | within 60016100 | 2,305,290 | | |
| Int Exp-SCF Loans | | 0 | | |
| Int Inc-Assoc Cos. | 41908000 | (176,391) | | |
| Int Exp-Short Term | within 60016000 | 69,531 | | |
| | _ | 2,256,068 | 2,256 | 2.54% |
| Long-Term Debt: | | | | |
| Amort of Debt Disc & Exp | 60002100 | 1,641,364 | | |
| Less: Hybrid Sec Amort of Iss Exp | see a below | (109,414) | | |
| Interest on Long-Term Debt | 60016000 | 45,646,755 | | |
| Less: Int Exp-Short Term | see above | (69,531) | | |
| Amort Inv Inc Differential | within 60001010 | 184,970 | | |
| | - | 47,294,144 | 47,294 | 5.03% |
| | | | | |
| Hybrid Securities: | (001(000 | 2 050 516 | | |
| Interest on QUIDS | 60016060 | 2,050,516 | | |
| Amort Exp-QUID1 Iss Exp | within 60002100 | 40,416 | 100 414 | |
| Amort Exp-QUID2 Iss Exp | within 60002100 | 37,899 | sum = 109,414 | a |
| Amort Exp-QUID3 Iss Exp | within 60002100 | 31,099 | | |
| Equity in Net Inc of Trust | 42107000 | (100,516) | | |
| | | 2,059,414 | 2,059 | 7.16% |
| Preferred Stock: | | | | |
| Amort of Pfd Stk Iss Exp | 60002000 | 55,086 | | |
| Preferred Stock dividends | 60016500 | 1,079,907 | | |
| Titleria Stock dividends | | 1,134,993 | 1,135 | 5.36% |
| | | 1,137,993 | 1,133 | 3.30/0 |

^{*} Short-Term Debt based on a 12 month average.

HAWAIIAN ELECTRIC COMPANY, INC. Special Medical Needs Program Discount (net of tax) 2018 Amounts in (\$000s)

| Special Medical Needs Program Discount | 151 |
|--|-----------------------|
| Revenue Taxes @ 8.885% | (13) |
| | 138 |
| Income Taxes @ 25.75% | (35) |
| Reduction to operating income | 102 To Sch H, Line 2e |

Source: CIS Special Medical Needs (SMN) report

HAWAIIAN ELECTRIC COMPANY, INC. Performance Incentive Mechanism 2018 Amounts in (\$000s)

| Gross (Reward) / Penalty Amount | GL#25400030 | 532 |
|---------------------------------|-------------|-----------------------|
| Revenue Taxes @ 8.885% | | (47) |
| | | 485 |
| Income Taxes @ 25.75% | | (125) |
| Reduction to operating income | | 360 To Sch H, Line 2f |

Note:

Subsequent to the December 2018 financial close, Hawaiian Electric revised its PIMS Regulatory Liability of \$531,871 to PIMS Regulatory Asset of \$537,856 as shown at Schedule M. The recorded PIMS Regulatory Liability balance of \$531,871 as of 12/31/18 was used to determine the 2018 Earnings Sharing Calculations at Schedule H.

The Company trued-up the Regulatory Liability balance with the February 2019 financial close.

HAWAIIAN ELECTRIC COMPANY, INC. Final Test Year Refund 2018 Amounts in (\$000s)

| 2017 Test Year Rate Case Final D&O Refund | Note 1 | 48 |
|---|--------|----------------------|
| Revenue Taxes @ 8.885% | | (4)_ |
| | | 44 |
| Income Taxes @ 25.75% | | (11) |
| Reduction to operating income | | 32 To Sch H, Line 2g |

Note 1:

2017 Final Test Year Rate Case Final D&O Refund calculation, filed in Docket No. 2016-0328 HECO Letter to the PUC, Exhibits 4 & 5, filed on July 23, 2018, and approved in Order No. 35661, filed August 30, 2018.

HAWAIIAN ELECTRIC COMPANY, INC. WORKING CASH 2018

(Note 1)

| | | | | | (Note 1) | |
|------|---|----|-------------|-----------|------------------------------|----------------------------|
| | W. I. G. I.E. | | 2010 | | Net Collection | |
| Line | Working Cash Items | | 2018 | | Lag Days | Amount |
| | A | | В | | С | D = B/365xC |
| 1 | Fuel | | 523,706 | | 19.1 | 27,405 |
| 2 | Purchased Power | | 494,450 | B2 | -5.4 | (7,315) |
| 3 | O&M Labor | | 137,959 | B3 | 25.5 | 9,638 |
| 4 | O&M Non-Labor | | 165,521 | B4 | 8.6 | 3,900 |
| 5 | Revenue Taxes | | 160,276 | B5 | -50.9 | (22,351) |
| 6 | Income Taxes | | 35,031 | B6 | -2.6 | (250) |
| 7 | Working Cash | | | | | 11,027 To HECO-WP-H-001 |
| 8 | Fuel Oil | B1 | 523,706 | | GL #90501000, 90 | 0547000, 90547100 |
| 9 | Purchased Power | B2 | 494,450 | | GL #90555000 | |
| 10 | O&M Labor | | | | | |
| 11 | O&M Labor | | 145,473 | | Acct. Dept. O&M | report |
| 12 | Fuel O&M Labor | | (2,242) | | Acct. Dept. O&M | report |
| 13 | O&M Labor Excl Fuel Labor | | 143,231 | | | |
| 14 | Disallowed O&M | | (5,272) | | HECO WP-H-002 | |
| 15 | Total | В3 | 137,959 | | | |
| 16 | O&M Non-Labor | | | | | |
| 17 | O&M Expense | | 1,333,535 | | PUC Monthly Rep | ort |
| 18 | Less: Fuel Oil & PP Expense | | (1,018,156) | | Lines 8 + 9 | |
| 19 | O&M Labor Excl Fuel Labor | | (143,231) | | (see O&M Labor I | Excl Fuel Labor above) |
| 20 | Disallowed O&M Non-Labor | | (1,767) | | HECO WP-H-002 | , |
| 21 | Bad Debt Expense | | (1,388) | | GL #60010000 | |
| 22 | Pension Reg Asset/Liab Amort | | (11,456) | | HECO WP-H-008 | pg. 2 |
| 23 | OPEB Reg Asset/Liab Amort | | 376 | | | 10 |
| 24 | System Develop Amort | | (2,267) | | | |
| 25 | Other Deferred Projects Amort | | (742) | | \downarrow | |
| | | | (, :=) | | GL #60018000/00 | 1/015, 60019100, 60050001, |
| 26 | Payroll Taxes | | 9,985 | | | /245/251, 70000010/20/30 |
| 27 | Interest on Customer Deposits | | 632 | | GL #60016050 | , |
| 28 | Total | B4 | 165,521 | | | |
| 29 | Revenue Taxes | | | | | |
| 30 | Franchise | | 44,708 | | GL #60017000 | |
| 31 | PSC | | 106,518 | | GL #60017000 GL #60017002 | |
| 32 | PUC Fee | | 9,050 | | GL #60017002 GL #60017001 | |
| 33 | Total | B5 | 160,276 | | GL #00017001 | |
| | | = | | | | |
| 34 | Current Income Taxes | | | | | |
| 35 | Income Tax | | 32,067 | | Dec. 2018 PUC M | |
| 36 | Inc Tax on Disallowed Items | | 1,915 | | HECO WP-H-002 | |
| 37 | Reversal of Tax Related to Interest Sync Replacement | | 12,461 | | Sch H, Line 2d | |
| 38 | Tax Eff of AFUDC Equity | | (3,189) | | GL #60020060 | |
| 39 | Income Tax Adjustments | | 3,404 | | HEI worksheet | |
| 40 | Tax Related to Int Synch | | (11,627) | | Sch H, Line 13 - 1 | 3a |
| 41 | Total | B6 | 35,031 | | , | |

Note 1: See Final Decision and Order No. 35545, For Approval of General Rate Case and Revised Schedules/Rules, filed on June 22, 2018 in Docket No. 2016-0328, Exhibit B, Page 2 of 2.

HAWAIIAN ELECTRIC COMPANY, INC. O&M Non-Labor Amortization 2018

| Pension | Regulatory | Asset Amortizat | inn |
|------------|-------------|-----------------|------|
| 1 61121011 | Kegulatoi v | Asset Amortizat | IUII |

| i cusion regulato | ı y Asset Amort | izativii | | | |
|-------------------|-----------------|-------------|-----------------|----------------|----------------|
| | | | (TY17) - Note 1 | | |
| Standard Jou | rnal Entry No. | | O&M % | | |
| PAA202 | PAA219 | • | Portion | Annual Rous | ded |
| Jan 2018 | Feb-Dec 2018 | Total | 57.43% | 2018 00 | Os |
| | | | | | |
| (45,851) | 19,994,484 | 19,948,633 | 11,456,500 | 11.456.500 11. | 456 To Page 1 |
| (10,001) | 12,22 ., | 15,5 .0,055 | 11,100,000 | 11,100,000 | 101 mgc 1 |
| OPEB Regulator | y Asset Amortiz | ation | | | |
| | | | (TY17) - Note 1 | | |
| Standard Jou | rnal Entry No. | | O&M % | | |
| PAA203 | PAA220 | • | Portion | Annual Roun | ded |
| Jan 2018 | Feb-Dec 2018 | Total | 57.43% | | <u>Os</u> |
| | | | | | |
| (159,067) | (495,069) | (654,136) | (375,670) | (375,670) | 376) To Page 1 |
| (,) | (, , , , , , | (,) | (=,-,-,-, | (2,2,0,0) | , |

System Development Amortization

| | | Standard . | Journal Entry No. | | | | |
|----------|-----------|------------|-------------------|------------|-----------|-----------|-----------------|
| PAA109 | PAA133 | PAA143 | PAA163 | PAA195 | PAA177 | | |
| 18607004 | 18606004 | 18606104 | 18607704 | 18670400 | 18605005 | | |
| | HR Suites | HR Suites | | IVR System | | | |
| OMS | Phase 1 | Phase 2 | Budget Replace | Replace | CIS | 2018 | Rounded |
| 300,940 | 356,462 | 127,940 | 145,469 | 116,500 | 1,219,715 | 2,267,026 | 2,267 To Page 1 |

Other Deferred Projects Amortization

| | - • j • • • • • • • • • • • • • • • • • • • | Stor | dard Journal Enti | ry No | | | | |
|---------------|--|---------------|-------------------|---------------|---------------|---------------|---------|---------------|
| | | | | 3 | | | | |
| <i>PAA166</i> | <i>PAA166</i> | <i>PAA166</i> | <i>PAA176</i> | <i>PAA176</i> | <i>PAA176</i> | <i>PAA132</i> | | |
| 18670124 | 18670125 | 18670126 | 18670120 | 18670121 | 18670122 | 18670152 | | |
| EOTP | EOTP | EOTP AFUDC | CIP CT-1 | CIP CT-1 | CIP CT-1 | RO | Annual | Rounded |
| Depreciation | AFUDC Debt | Equity | Depreciation | AFUDC Debt | AFUDC Equity | Pipeline | 2018 | 000s |
| 18,219 | 15,342 | 35,441 | 146,605 | 123,526 | 286,584 | 116,436 | 742,153 | 742 To Page 1 |

NOTE:

¹ See Parties' Stipulated Settlement Letter, filed November 15, 2017, in Docket No. 2016-0328, HECO T-16 Attachment 4, page 1. Approved in Final Decision and Order No. 35545, filed on June 22, 2018.

HAWAIIAN ELECTRIC COMPANY, INC. MONTHLY FINANCIAL REPORT December 2018

TO THE PUBLIC UTILITIES COMMISSION OF THE STATE OF HAWAII OPERATING INCOME BEFORE RATEMAKING ADJUSTMENTS TO BE USED FOR THE EARNINGS SHARING CALCULATION (in thousands)

Page 2a

| Operating income per Monthly Financial Report Less: Interest on Customer Deposits Add: Adjustment to federal income tax to offset the DPAD benefit recognized at MECO *2 Add: Gain on Sale Amortization | 138,084 * ³ (632) 66 66 * ⁴ |
|--|---|
| Operating income before ratemaking adjustments & synchronized interest - earnings sharing calculation | 137,585 |
| Income Tax Adjustments Adjusted Operating income before ratemaking adjustments & synchronized interest - earnings sharing calculation | (3,404) 134,181 To Sch H |

^{*1} Amounts may not add up due to rounding.

Note:

Included to support Operating Income on Schedule H since PUC Page 2a was excluded from the December 2018 Monthly PUC Report submitted on February 27, 2019.

An adjustment made to offset the benefit of the Domestic Production Activities Deduction (DPAD) recognized on a standalone basis at Maui Electric Company, Ltd. (MECO) and excluded the impact from the operating income before ratemaking adjustments & synchronized interest for Hawaiian Electric Company. This adjustment was made to eliminate the impact of the MECO's tax benefit from the Hawaiian Electric Company consolidated net income, and therefore should not have any impact on a standalone basis at Hawaiian Electric Company.

^{*3} Starting October 2018, Operating Income per the Monthly Financial Report includes income tax on AFUDC Equity.

^{*4} Included within Other Income and added back for ratemaking purposes.

Hawaiian Electric Company, Inc. Schofield Generating Station Plant Addition As of December 31, 2018

| Utility Account | (Note 1) PUC Approved Accrual Rate | (Note 2) Balance at 12/31/18 | Depreciation 2019 | Allocation % | (Note 3) Subject to Cap | Depreciation 2019 (at Cap) |
|--------------------|------------------------------------|------------------------------------|-------------------|--------------|-------------------------------|----------------------------|
| | a | b | $c = a \times b$ | d | $e = d \times Cap$ | $f = a \times e$ |
| 343 | 0.03260 | 142,147,612 | 4,634,012 | 98.2% | 139,030,987 | 4,532,410 |
| 352 | 0.01600 | 2,003,490 | 32,056 | 1.4% | 1,959,563 | 31,353 |
| 353 | 0.01860 | 352,190 | 6,551 | 0.2% | 344,468 | 6,407 |
| 397 | 0.06670 | 240,250 | 16,025 | 0.2% | 234,983 | 15,673 |
| | _ | 144,743,542 | 4,688,643 | 100.0% | 141,570,000 | 4,585,844 |
| | = | | | | To Sch L1 | To Sch L1 |

Source: SAP and Powerplan WBS.

Note 1:

Depreciation rates approved in Docket No. 2010-0053, Decision and Order, filed May 12, 2011.

Note 2:

See details at HECO-WP-D2-001.

Note 3:

Decision and Order No. 33178, p. 84-85, Docket No. 2014-0113, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for the Purchase and Installation of Item P0001576, Schofield Generating Station Project, filed 09/29/2015. The Commission approved a cap on the amount of the total costs that may be recovered through any cost recovery mechanism other than base rates at 90% of the \$167 million cap. The \$167 million cap shall further be adjusted downward due to a reduction in the foreign exchange rate.

In the Letter to Commission Re: Docket No. 2014-0113, Schofield Generating Station; Notification of Euro Exchange Rate and Adjusted Project Cap, filed 01/27/2016, the Company locked in the foreign exchange rate at \$1.0928/euro which adjusted the project cap down from \$167 million to \$157.3 million. Revised cap on the amount of total costs allowed to be recovered through any cost recovery mechanism other than base rates is \$141.57 million (\$157.3 million x 90%).

(1,540,061) To Sch L1

| HAWAIIAN ELECTRIC CO., INC. | SCHOFIELD GENERATING STATION - NO BONUS | RER 31 2019 |
|-----------------------------|---|------------------|
| HAWAIIAN ELI | SCHOFIELD GI | DECEMBER 31 2019 |

| | | Source | Tax Denreciation | AFUDC | Tax Can Interest | State ITC | Removal | 2018 Total | Book/Tax Denr | State ITC | 2019 Total |
|--------------|---|-------------------|------------------|---------------|------------------|-------------------------|---------------|----------------|---------------------------|-------------------------|---------------------------|
| | FEDERAL DEFERRED TAXES | | (page 2 of 5) | (page 3 of 5) | (page 3 of 5) | (page 3 of 5) | (page 5 of 5) | | <u>.</u> | | |
| 1 S 2 E | State Book/Tax Difference Book Depreciation | HECO-WP-L-001 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (12,753,951) 4,585,844 | (412,415) | (19,716,566) 4,173,428 |
| | Subtotal | Line 1 + Line 2 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (8,168,107) | (412,415) | (15,543,137) |
| 4 H | Effective Federal Tax Rate | | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% |
| S F | Federal Def Tax on State Book/Tax Diff | Line 3 * Line 4 | (1,323,584) | (2,309,724) | 1,481,649 | 813,976 | (36,513) | (1,374,197) | (1,612,123) | (81,398) | (3,067,718) |
| 9 1 | Addback State Book/Tax Difference | Line 3 | 6,706,173 | 11,702,627 | (7,507,036) | (4,124,152) | 185,002 | 6,962,615 | 8,168,107 | 412,415 | 15,543,137 |
| - × | rederal Book 1 ax Difference Book Depreciation | Line 2 | (167,575,651) | (11,/02,627) | 050,/05, | 4,124,132 | (102,002) | (57,0,629,673) | (9,303,403) 4,585,844 | (412,415) | (49,193,136) 4,173,428 |
| 9 F | Federal State Difference | Line 6+7+8 | (32,667,058) | 1 | • | 1 | 1 | (32,667,058) | 3,188,488 | | (29,478,570) |
| 10 1 | 10 Tax Rate on Federal Only Adjustment | | 21% | 21% | 21% | 21% | 21% | 21% | 21% | 21% | 21% |
| 11 F | 11 Federal Deferred Tax Adjustment | Line 9 * Line 10 | (6,860,082) | | | | ı | (6,860,082) | 669,582 | | (6,190,500) |
| 12 1 | 12 Total Federal Deferred Taxes | Line 5 + Line 11 | (8,183,666) | (2,309,724) | 1,481,649 | 813,976 | (36,513) | (8,234,279) | (942,541) | (81,398) | (9,258,218) |
| 9 2 | STATE DEFERRED TAXES | | | | | | | | | | |
| 13 S 14 H | State Book/Tax Difference Book Denreciation | Line 1 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (12,753,951) | (412,415) | (19,716,566) |
| 15 S | Subtotal | Line 1 + Line 2 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 To Sch I 1 | (185,002) | (6,962,615) | (8,168,107) | (412,415) To Seb I 1 | (15,543,137) |
| 16 E | 16 Effective State Tax Rate | | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% |
| 17 1 | 17 Total State Deferred Taxes | Line 15 * Line 16 | (403,379) | (703,917) | 451,551 | 248,069 | (11,128) | (418,804) | (491,315) | (24,807) | (934,926) |
| 18 | 18 TOTAL DEFERRED TAXES | Line 12 + Line 17 | (8,587,045) | (3,013,641) | 1,933,200 | 1,062,045 | (47,641) | (8,653,083) | (1,433,856) | (106,205) | (10,193,144) |
| | | | | | | | | To Sch L1 | | | To Sch L1 |

HAWAIIAN ELECTRIC CO., INC. TAX DEPRECIATION SCHOFIELD GENERATION STATION

| Project No. | Description | Book Basis | Less: AFUDC | Add: TCI | Tax Basis | Plant Acct Life Bonus | Life Bo | snu | 2018 | 2019 | Net Book Value |
|------------------|---------------------------------------|-------------|----------------|-------------|-------------|-----------------------|---------|-------|---------------------------------------|------------|-------------------|
| FEDERAL | | | | | | | | | | | |
| P0001576 Schofie | P0001576 Schofield Generation Station | 64,076,545 | (5,275,285) | 3,384,005 | 62,185,266 | Oth Prod | 15 5(| 50% 3 | 32,647,265 | 2,953,800 | 28,475,480 |
| P0001576 Schofie | P0001576 Schofield Generation Station | 64,076,545 | (5,275,285) | 3,384,005 | 62,185,266 | Oth Prod | 15 0 | %0 | 3,109,263 | 5,907,600 | 55,059,682 |
| P0001576 Schofie | P0001576 Schofield Generation Station | 5,625,855 | (510,973) | 327,780 | 5,442,663 | Trans | 20 50 | 20% | 2,823,381 | 196,453 | 2,606,021 |
| P0001576 Schofie | P0001576 Schoffeld Generation Station | 5,625,855 | (510,973) | 327,780 | 5,442,663 | Trans | 20 0 | % | 204,100 | 392,906 | 5,028,849 |
| P0001576 Schofie | Schoffeld Generation Station | 1,082,599 | (65,056) | 41,732 | 1,059,276 | Comm | 20 50 | 20% | 549,499 | 38,235 | 494,865 |
| P0001576 Schofie | P0001576 Schoffeld Generation Station | 1,082,599 | (65,056) | 41,732 | 1,059,276 | Comm | 20 0 | %0 | 39,723 | 76,469 | 966,407 |
| Total | | 141,570,000 | (11,702,627) | 7,507,036 | 137,374,409 | | | 8 | 39,373,231 | 9,565,463 | 92,631,306 |
| Cumulative | ative | | | | | | | | | 48,938,694 | |
| | | | | | | | | | To page 1 of 5 | 1 of 5 | |
| HAWAII | | | | | | | | | | | |
| P0001576 Schofie | P0001576 Schoffeld Generation Station | 128,153,091 | (10,550,569) | 6,768,010 | 124,370,532 | Oth Prod | 15 | 0 | 6,218,527 | 11,815,201 | 110,119,363 |
| P0001576 Schofie | P0001576 Schofield Generation Station | 11,251,710 | (1,021,945) | 655,561 | 10,885,325 | Trans | 20 | 0 | 408,200 | 785,812 | 10,057,698 |
| P0001576 Schofie | P0001576 Schoffeld Generation Station | 2,165,199 | (130,112) | 83,465 | 2,118,551 | Comm | 20 | 0 | 79,446 | 152,938 | 1,932,815 |
| Total | | 141,570,000 | (11,702,627) | 7,507,036 | 137,374,409 | | | | 6,706,173 | 12,753,951 | 122,109,876 |
| Cumulative | ative | | | | | | | | 19,4 <mark>6</mark> To page 1 of 5 | 19,460,124 | |

Hawaiian Electric Company, Inc. Breakdown of SGS Costs by Major Area Actuals through December 2018

| TOTAL PLANT ADDITIONS: | A | В | C | D | E=SUM(B:D) | F=A+E | | (Note 1) |
|-------------------------------|---|-----------|-----------|-----------------------|--------------------------|---------------|--------------|-------------------|
| Expense Element | Generating Station and Switchyard | 46kV Line | Telecom | Wahiawa Substation | Total Interconnection | Total Project | Allocation % | Subject to Cap |
| Labor | 2,293,428 | 1,712,982 | 305,919 | 741,234 | 2,760,135 | 5,053,564 | 3.5% | 4,942,763 |
| Materials | 32,932,285 | 1,523,772 | 545,040 | 512,566 | 2,581,378 | 35,513,663 | 24.5% | 34,735,016 |
| Vehicles | 2,062 | 117,109 | 187 | 563 | 117,859 | 119,921 | 0.1% | 117,292 |
| Overheads | 12,885,912 | 2,456,221 | 544,975 | 928,736 | 3,929,932 | 16,815,844 | 11.6% | 16,447,152 |
| AFUDC | 10,787,079 | 703,160 | 133,029 | 341,694 | 1,177,883 | 11,964,962 | 8.3% | 11,702,627 |
| Outside Services-Construction | 69,147,360 | 614,746 | 59,095 | 80,179 | 754,019 | 69,901,379 | 48.3% | 68,368,772 |
| Outside Services-Other | 2,550,389 | 1,421,977 | 621,195 | 348,999 | 2,392,171 | 4,942,560 | 3.4% | 4,834,193 |
| Other | 427,354 | - | 4,296 | - | 4,296 | 431,650 | 0.3% | 422,186 |
| _ | 131,025,869 | 8,549,966 | 2,213,736 | 2,953,971 | 13,717,673 | 144,743,542 | 100.0% | 141,570,000 |

| BREAKDOWN SUBJECT TO | A1 | B1 | C1 | D1 | E1=SUM(B1:D1) | F1=A1+E1 | |
|-------------------------------|---|-----------|-----------|-----------------------|--------------------------|---------------|------------------|
| Expense Element | Generating Station and Switchyard | 46kV Line | Telecom | Wahiawa Substation | Total Interconnection | Total Project | State ITC |
| Labor | 2,243,144 | 1,675,424 | 299,212 | 724,982 | 2,699,618 | 4,942,763 | |
| Materials | 32,210,236 | 1,490,363 | 533,090 | 501,328 | 2,524,781 | 34,735,016 | 34,735,016 |
| Vehicles | 2,017 | 114,541 | 183 | 551 | 115,275 | 117,292 | |
| Overheads | 12,603,385 | 2,402,368 | 533,026 | 908,373 | 3,843,767 | 16,447,152 | |
| AFUDC | 10,550,569 | 687,743 | 130,112 | 334,202 | 1,152,058 | 11,702,627 | |
| Outside Services-Construction | 67,631,285 | 601,267 | 57,799 | 78,421 | 737,487 | 68,368,772 | 68,368,772 |
| Outside Services-Other | 2,494,471 | 1,390,800 | 607,576 | 341,347 | 2,339,722 | 4,834,193 | |
| Other | 417,984 | - | 4,202 | - | 4,202 | 422,186 | L |
| _ | 128,153,091 | 8,362,506 | 2,165,199 | 2,889,204 | 13,416,909 | 141,570,000 | (Note 1) |
| Amount subject to bonus | 50% | 50% | 50% | 50% | 50% | 50% | 103,103,789 |
| _ | 64,076,545 | 4,181,253 | 1,082,599 | 1,444,602 | 6,708,455 | 70,785,000 | 4% |
| = | | | | | | | 4,124,152 |
| | | | 5,625,855 | | | | To page 1 of 5 |
| Tie out of TCI: | | | | | | | |
| AFUDC | 10,550,569 | 687,743 | 130,112 | 334,202 | 1,152,058 | 11,702,627 | To page 1 of 5 |
| ratio - 5 year average | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | From page 4 of 5 |
| TCI | 6,768,010 | 441,175 | 83,465 | 214,385 | 739,025 | 7,507,036 | To page 1 of 5 |
| = | | _ | | | | | |

655,561

Source: Ellipse & SAP

Note 1:

 $Allocated\ 12/31/18\ Plant\ Addition\ subject\ to\ the\ cap\ of\ \$141.57M.\ \ See\ further\ discussion\ at\ HECO-WP-L1-001.$

Hawaiian Electric Company, Inc. Annual - TCI Closed to AFUDC Closed Ratio

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | 5 Yr Ave |
|-------|-------------|-------------|-------------|-------------|-------------|----------------|
| TCI | 3,820,695 | 4,825,860 | 4,299,588 | 4,056,549 | 5,041,274 | 22,043,966 |
| AFUDC | 5,511,275 | 7,365,025 | 6,668,924 | 6,540,575 | 8,278,273 | 34,364,072 |
| | | | | | | |
| Ratio | 0.693251 | 0.655240 | 0.644720 | 0.620213 | 0.608977 | 0.641483 |
| | | | | | | To page 3 of 5 |

Hawaiian Electric Company, Inc. MPIR Removal Costs Actuals Through December 31, 2018

| Row Labels | Sum of amount |
|--------------------|----------------|
| Labor | 90,530 |
| Materials | 46 |
| Overheads | 94,426 |
| Grand Total | 185,002 |
| | Ta maga 1 af 5 |

To page 1 of 5

SOURCE: Ellipse & SAP

Schedule L exhibit, with additional supporting workpapers

Excerpt from Docket No. 2017-0213 - Schofield Generating Station Cost Recovery through the Major Project Interim Recovery Adjustment Mechanism Hawaiian Electric's Update of Target Revenues and Updated Responses to the Commission's Information Requests, filed July 18, 2018. Approved in Order No. 35647, issued August 15, 2018. Effective July 1, 2018. Pages 1 through 9.

SCHEDULE B1 PAGE 1 OF 1

\$000\$

\$35,971 0.46429 -\$603 -\$2,143 0.60000

| Docket No. 2016-0328 Amounts (m) | \$ 1,529,709 \$. \$ | \$ (327,609) \$ (466,211) \$ (135,915) | \$ 599,974 | တ မာ မာ | \$ 13,828 \$ (1,229) \$ 12,599 | \$ 6,600 \$ (586) \$ 6,014 | | - | \$ 618,587 | 2019 | \$50,662,296 \$54,950,773 \$54,363,268 \$51,961,329 \$51,961,329 |
|---|---|--|--|--|--|---|---|--|--|---|--|
| Docket No. 2016-0328 Amounts (I) | \$ 1,529,709 \$. | \$ (327,609) \$ (466,211) \$ (135,915) | \$ 599,974 | | \$ 13,828 \$ (1,229) \$ 12,599 | \$ 6,600 \$ (586) \$ 6,014 | | • | \$ 618,587 | 2018 | \$53.817,081 \$55.301,701 \$33.507,798 \$54.085,317 \$51,096,307 \$51,219,025 |
| Docket No. 2016-0328 Amounts (K) | \$ 1,529,709 \$ - \$ | \$ (327,609) \$ (466,211) \$ (135,915) | \$ 599,974 | & & & | \$ 13,828 \$ (1,229) . | 999 | | 69 | \$ 612,574 | 2018 | \$49,434,694 |
| Docket No. 2016-0328 Amounts (i) | 1,529,709 | (327,609) (466,211) (135,915) | 599,974 | | | . | (16) | | 299,960 | Note (8) 2018 | \$28,726,095 \$50,396,658 |
| Docket No. 2016-0328 Amounts (i) | 1,581,445 \$ (5,000) \$ (6,000) \$ | (327,609) \$ (466,211) \$ (139,534) \$ | \$ 160,759 | * * * * * * * * * * * * * * * * * * * | s solo | | (16) \$ 1 \$ (14) \$ | \$ | \$ 770'128 | Note (6), (8) 2018 | \$22,450,132 \$51,603,222 \$20,335,492 |
| Docket No. 2010-0080 Amounts (h) | 1,765,954 \$ \$ \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | 101,131 \$ (8,986) \$ 92,146 \$ | s s s | so so so | (16) \$ | ٠ | 604,302 | _ | \$48,948,443 |
| Docket No. 2010-0080 Amounts (g) | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | 101,131 \$ (8,986) \$ 92,146 \$ | • • • • | | (16) \$ | \$ | 604,302 \$ | 2017 | \$51,184,359 \$52,997,285 \$54,658,879 \$52,453,939 \$53,057,695 \$49,915,326 \$49,915,326 |
| Docket No. 2010-0080 Amounts (f) | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | · · · | - | s s s | | · | φ | 2017 | \$48,009,623 |
| Docket No. 2010-0080 Amounts (e) | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | | | s s s | \$ \$ \$ | \$ | | 2016 | \$50,202,656 \$51,980,790 \$55,581,111 \$51,447,350 \$52,040,061 \$48,957,962 \$48,957,962 \$3557,167,892 |
| | \$000\$ \$000\$ | \$ \$000\$ \$ \$000\$ | \$0008 | \$000s \$000s \$000s | \$0008 \$0008 \$0008 | \$0008 \$0008 \$0008 | \$ \$000\$ \$ \$000\$ | \$ \$000\$ | \$000\$ \$000\$ \$000\$ \$000\$ | Note (4) | 8 8 19% 7.59% 8 10% 8 10% 8 40% 8 10% 8 10% 8 10% 8 10% 8 10% 8 10% 8 100% 9 100.00% 9 100.00% |
| Reference (b) | Note (1), (5), (7), (7a) Note (5) Note (5) | Note (1), (5), (7), (7a) Note (1), (5), (7), (7a) | Sum Lines 14 | Note (2) Lines 6 + 7 | Note (9) Lines 9 + 10 | Schedule L Lines 12 + 13 | Note (2), (9) Lines 15 + 16 | Note (2), (9) | Col (g), lines (5+8+17+18) Col (l), lines (5+8+17+18) Col (l), lines (5+8+17+18) Col (k), lines (5+9+17+18) Col (k), lines (5+9+17+18) (Col (l), lines (5+8+17+18) | | 8.10% 6.10% 7.26% 7.84% 8.44% 8.47% 9.04% 8.26% 8.26% 8.26% |
| Description (a) | Last Rate Case Annual Electric Revenue at Approved Rate Levels Less: Holdback of Interim Revenues Less: Customer Benefit Adjustment | s: Fuel Expense Purchased Power Expense Revenue Taxes on Line 1 to 1b (8.885% statutory rates) | Last Rate Order Target Annual Revenues | Authorized RAM Revenues Less: Revenue Taxes on Line 12 at 8.885% Net RAM Adjustment - Test Year +6 | Authorized RAM Revenues Less: Revenue Taxes on Line 12 at 8.885% Net RAM Adjusiment - Test Year +1 | Authorized MPIR Revenues Less: Revenue Taxes on Line 12 at 8.885% Net MPIR Adjustment | s: EARNINGS SHARING REVENUE CREDITS Less: Revenue Taxes on Line 15 at 8.885% Net Earnings Sharing Revenue Credits | PUC-ORDERED MAJOR OR BASELINE CAPITAL CREDITS: | Total Annual Target Revenues June 1, 2017 Amualized Revenues w/RAM Increase February 16, 2018 Annualized Revenues w/Indirntin Increase April 13, 2018 Annualized Revenues w/Znd Interim Increase June 1, 2018 Annualized Revenues w/RAM Increase | Distribution of Target Revenues by Month: | January February March April April May June July August September October November Total Distributed Targe Revenues |
| Line No. | 1 Last 1a Less 1b Less | 2 Less: 3 4 | 5 Last | 9 / 8 | e 6 ± | 12 13 | 15 Less: 16 17 | 18 | 19 Tota 21 22 23 24 24 25 | | 27 28 33 33 34 34 36 39 10a |

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

Docket No. 2010-0080 amounts derived from Order No. 30576, filed August 9, 2012, effective September 1, 2012, which implemented Decision and Order No. 30505, Exhibit A, page 1, filed June 29, 2012. Transmittal 7.02 filed March 51, 2017 to relect 2017 target revenue effective June 1, 2017.

RBA Tariff Revised July 2, 2011 to relified 2017 test year.

RBA Tariff Revised July 2, 2011 to relified 2017 test year.

RBA Tariff Effective February 16, 2018 to relified 2017 test year.

RBA Tariff Effective February 16, 2018 to relified 2017 test year.

Fet Year 2017 melm Increase provided for in Inferim Decision and Order 35100, issued December 15, 2017 in Docket No. 2016-0328:

For the month of the infail implementation (Feb 2018), adjust the monthly allocation by the number of effective days in the month of the infail implementation (April 2018), adjust the monthly allocation by the number of effective days in the month of the infail implementation (April 2018), adjust the monthly allocation by the number of effective days in the month of the infail implementation (April 2018), adjust the monthly allocation by the number of effective days in the month over the total number of days:

For the month of the infail implementation (April 2018), adjust the monthly allocation by the number of effective days in the month over the total number of days:

SCHEDULE L PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK REVENUE REQUIREMENT AND DETERMINATION OF MAJOR PROJECT INTERIM RECOVERY MPIR PROJECT \$ in thousands

| Line No. | Description | Reference | Recorded at 12/31/2017 | Recorded at In Service Date (June 2018) | Ending Balance as of 6/30/18 | Average Balance | | //PIR |
|---|---|--|------------------------|---|------------------------------------|-------------------------------|------------|-----------------------|
| | (a) | (b) | (c) | (d) | (e) | | | (f) |
| 1 2 | Return on Investment Gross Plant in Service (not to exceed PUC approved amount) Accum Depreciation | HECO-WP-L-001 Schedule TBD | - | 141,275 | 141,275 | 70,638 | | |
| 3 | Net Cost of Plant in Service | | - | 141,275 | 141,275 | 70,638 | | |
| 4 5 6 | Fuel Inventory - Avoided M&S Inventory Total Additions | Note 3 Note 3 | - | (1,534) 100 (1,434) | (1,534) 100 (1,434) | (767) 50 (717) | | |
| 7 8 9 10 | CIAC ADIT State ITC Total Deductions | Schedule TBD, if needed HECO-WP-L-002 HECO-WP-L-002 | | (8,689) (4,147) (12,836) | (8,689) (4,147) (12,836) | (4,344) (2,074) (6,418) | | |
| 11 | Total Rate Base | | \$ - | \$ 127,005 | \$ 127,005 | 63,502 | | |
| 12 | Average Rate Base | | | | | \$ 63,502 | | |
| 13 | Rate of Return (grossed-up for income taxes, before revenue taxes) | Note 4 | | | _ | 9.47% | | |
| 14 | Annualized Return on Investment (before revenue taxes) | | | | _ | - | \$ | 6,014 |
| 15 16 16a 17 18 19 20 | Depreciation Expense (Note 1) Operating & Maintenance Expense Prior year reconciliation of O&M to actuals Amortization of State ITC Lease Rent Expense Other Expense Total Expenses | Schedule E Note 2 Note 2 see line 6 Schedule TBD, if needed Schedule TBD, if needed | | | - | : : : | \$ | |
| 21 | Total Major Project Interim Recovery | | | | | | \$ | 6,014 |
| 22 | Revenue Tax Factor (1/(1-8.885%)) | • | | | | | | 1.0975 |
| 23 | 2019 Annualized Revenue for Major Project Interim Recovery | | | | | - | \$ To £ | 6,600.0 Sch B & B1 |

Reconciliation to Schedule B1 (Info Only)
Sum of Monthly Factors for Jul-Dec 2018 51.67%
Prorated MPIR for Year 1 \$ 3,410

| Prorated MPIR for Year 1 \$ 3,410 | Rev Tax Adj \$ (303) | Prorated MPIR for Year 1 excl Rev Tax \$ 3,107

Note 1: Depreciation expense is recorded beginning in the year after an asset is placed in service, therefore, depreciation expense is zero in year 1. The revenue requirement for year 2 and thereafter will include depreciation expense at existing, approved depreciation accrual rates at the time of filling.

Note 2: Per Order No. 35556, page 74, Docket No. 2017-0213, For Approval to Recover Costs for Schofield Generating Station through the Major Project Interim Recovery Adjustment Mechanism, filed on June 27, 2018. Total estimated annual O&M expense will be excluded from the MPIR calculation until an acceptable business case study has been reviewed and approved by the Commission.

Note 3: Difference in fuel inventory and difference in materials & supplies inventory derived from the "with Schofield" and "without Schofield" rate bases in the HECO 2017 test year rate cases. See Docket No. 2016-0328 HECO-3201 p. 3 and HECO-3203 p. 3.

Note 4: Transmittal No. 18-01 (Decoupling) - Hawaiian Electric's RBA Rate Adjustment, Schedule D, filed May 29, 2018.

HECO-WP-L-001 PAGE 1 OF 1

Hawaiian Electric Company, Inc. MPIR Plant Additions Actuals Through June 30, 2018

| Indicator Code | NI |
|----------------------------|---------------|
| Row Labels | Sum of amount |
| 150: Labor Cost | 4,542,416 |
| 155: Labor True-up | 284,309 |
| 201: Matl-Issues/Purchases | 33,529,637 |
| 205: Matl-Purchasing Card | 63,740 |
| 301: Vehicles | 112,180 |
| 404: Energy Delivery | 1,758,310 |
| 405: Power Supply | 10,752,643 |
| 406: Corp Admin Expense | 929,503 |
| 421: Non-Productive Wages | 610,417 |
| 422: Employee Benefits | 1,348,674 |
| 423: Payroll Taxes | 403,436 |
| 430: AFUDC-Debt | 3,260,337 |
| 431: AFUDC-Equity | 8,704,625 |
| 501: Outside Svcs-General | 1,461,336 |
| 502: Outside Svcs-Legal | 177,774 |
| 503: Outside Svcs-TempHire | 2,916 |
| 505: Outside Svcs-Constr | 70,093,402 |
| 506: Outside Svcs-Engr | 1,596,895 |
| 508: Outside Svcs-Environ | 1,213,832 |
| 520: Mainland Travel | 90,358 |
| 522: Interisland Travel | 1,706 |
| 570: Rents | 9,300 |
| 521: Meals | 13,202 |
| 900: Fin Stmt Items | 314,048 |
| Grand Total | 141,274,996 |

SOURCE: UIPlanner Actual Data

HECO-WP-L-002 PAGE 1 OF 5 Nd 20:18102/81/2

HAWAIIAN ELECTRIC CO., INC. SCHOFIELD GENERATING STATION DECEMBER 31, 2018 (Based on Actuals Through June 30, 2018)

| | | sonice | Tax Depreciation | AFUDC | Tax Cap Interest | State ITC | Removal | Total |
|-------|--|-------------------|---------------------------|----------------------------|--------------------------|--------------------------|----------------------|---------------------------|
| | FEDERAL DEFERRED TAXES | | | | | | | |
| - 0 | State Book/Tax Difference | | (6,714,039) | (11,964,962) | 7,673,560 | 4,147,471 | (185,002) | (7,042,972) |
| 7 K | Subtotal | Line 1 + Line 2 | (6,714,039) | (11,964,962) | 7,673,560 | 4,147,471 | (185,002) | (7,042,972) |
| 4 | Effective Federal Tax Rate | | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% |
| 8 | Federal Def Tax on State Book/Tax Diff | Line 3 * Line 4 | (1,325,136) | (2,361,501) | 1,514,515 | 818,578 | (36,513) | (1,390,057) |
| 9 / 8 | Addback State Book/Tax Difference Federal Book/Tax Difference | Line 3 | 6,714,039 (39,452,276) | 11,964,962 (11,964,962) | (7,673,560) 7,673,560 | (4,147,471) 4,147,471 | 185,002 (185,002) | 7,042,972 (39,781,209) |
| 9 6 | Federal State Difference | Line 6 + 7 + 8 | (32,738,237) | | , | : | ŧ | (32,738,237) |
| 10 | Tax Rate on Federal Only Adjustment | | 21% | 21% | 21% | 21% | 21% | 21% |
| Ξ | Federal Deferred Tax Adjustment | Line 9 * Line 10 | (6,875,030) | 1 | 1 | | | (6,875,030) |
| 12 | Total Federal Deferred Taxes | Line 5 + Line 11 | (8,200,166) | (2,361,501) | 1,514,515 | 818,578 | (36,513) | (8,265,087) |
| | STATE DEFERRED TAXES | | | | | | | |
| 13 | State Book/Tax Difference | Line 1 | (6,714,039) | (11,964,962) | 7,673,560 | 4,147,471 | (185,002) | (7,042,972) |
| 15 | Subtotal | Line 1 + Line 2 | (6,714,039) | (11,964,962) | 7,673,560 | 4,147,471 | (185,002) | (7,042,972) |
| 16 | Effective State Tax Rate | | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% |
| 17 | Total State Deferred Taxes | Line 15 * Line 16 | (403,852) | (719,697) | 461,568 | 249,472 | (11,128) | (423,637) |
| 18 | TOTAL DEFERRED TAXES | Line 12 + Line 17 | (8,604,018) | (3,081,198) | 1,976,083 | 1,068,050 | (47,641) | (8,688,724) |

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HAWAIIAN ELECTRIC CO., INC. TAX DEPRECIATION SCHOFIELD GENERATION STATION (Based on Actuals Through June 30, 2018)

| Project No. | Description | Book Basis | Less: AFUDC | Add: TCI | Tax Basis | Plant Acct Life | | (Note 1) Bonus | 2018 | Net Book Value |
|----------------------|---|-------------|------------------------|------------------------|--------------------------|----------------------|----------|-------------------|-------------------------|---------------------------|
| FEDERAL | | | | | | | | | | |
| P0001576 P0001576 | 20001576 Schofield Generation Station P0001576 Schofield Generation Station | 63,995,593 | (5,393,539) | 3,459,071 3,459,071 | 62,061,124 62,061,124 | Oth Prod Oth Prod | 15 | 50% 0% | 32,582,090 3,103,056 | 31,413,503 60,892,537 |
| | | 5,661,768 | (180,733) | 335,052 | 5,816,087 | Trans | 70 | 20% | 3,017,095 | 2,644,673 |
| P0001576 | P0001576 Schofield Generation Station | 5,661,768 | (180,733) | 335,052 | 5,816,087 | Trans | 20 | %0 | 218,103 | 5,443,665 |
| P0001576 | 20001576 Schofield Generation Station | 980,137 | (66,514) | 42,658 | 956,281 | Comm | 20 | 20% | 496,071 | 484,066 |
| P0001576 | Schofield Generation Station | 980,137 | (66,514) | 42,658 | 956,281 | Comm | 20 | %0 | 35,861 | 944,276 |
| | Total | 141,274,996 | (11,281,574) | 7,673,560 | 137,666,982 | | | | 39,452,276 | 101,822,720 |
| HAWAII | | | | | | | | | | |
| P0001576 | P0001576 Schofield Generation Station P0001576 Schofield Generation Station | 127,991,185 | (10,787,079) (361,466) | 6,918,141 670.103 | 124,122,248 | Oth Prod Trans | 15 20 | 0 0 | 6,206,112 436,206 | 121,785,073 10,887,330 |
| P0001576 | Schofield Generation Station | 1,960,274 | (133,029) | 85,316 | 1,912,561 | Comm | 70 | 0 | 71,721 | 1,888,553 |
| | Total | 141,274,996 | (11,281,574) | 7,673,560 | 137,666,982 | | | | 6,714,039 | 134,560,957 |

The Tax Technical Corrections Act of 2018 made changes to the phase down rules of §168(k) as it existed just prior to the enactment of the 2017 Tax pursuant to a written binding contract entered into prior to September 28, 2017 but placed into service in 2018. Based on this statutory revision, the Reform Act. These changes indicated that 50% bonus depreciation (under the old law) would apply to longer production period property that was current best assessment is that one-half of the Schofield project components should meet the written binding contract requirements and will be grandfathered under the old law, which allowed 50% bonus depreciation on public utility property. The Company continues to monitor the tax developments for further guidance.

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Hawaiian Electric Company, Inc. Breakdown of SGS Costs by Major Area Actuals through June 2018

SOURCE: PUC-HECO-IR-7 (Update of CA-IR-19)

| | | A | В | υ | ۵ | E = SUM(B:D) | F = A + E | |
|----|-------------------------------|--------------------|-----------|-----------|------------|-----------------|---------------|-------------|
| | | Oth Prod | Trans | Comm | Trans | | | |
| | | Generating Station | | | Wahiawa | Total | | |
| 2 | Row Expense Element | and Switchyard | 46kV Line | Telecom | Substation | Interconnection | Total Project | State ITC |
| 7 | 150: Labor Cost | 2,036,413 | 1,505,621 | 301,845 | 698,537 | 2,506,003 | 4,542,416 | |
| 7 | 155: Labor True-up | 99,413 | 149,735 | (2,583) | 37,744 | 184,896 | 284,309 | |
| m | 201: Mati-Issues/Purchases | 31,024,176 | 1,466,766 | 543,716 | 494,978 | 2,505,461 | 33,529,637 | 33,529,637 |
| 4 | . 205: Matl-Purchasing Card | 5,329 | 39,500 | 1,323 | 17,588 | 58,411 | 63,740 | 63,740 |
| 2 | 301: Vehicles | 1,213 | 110,407 | • | 260 | 110,967 | 112,180 | |
| 9 | 404: Energy Delivery | 52,075 | 1,108,794 | 238,053 | 359,388 | 1,706,235 | 1,758,310 | |
| 7 | 405: Power Supply | 10,442,252 | 190,953 | 36,356 | 83,082 | 310,392 | 10,752,643 | |
| ∞ | 406: Corp Admin Expense | 414,446 | 310,795 | 63,083 | 141,180 | 515,057 | 929,503 | |
| 6 | 421: Non-Productive Wages | 265,486 | 210,398 | 43,543 | 90,990 | 344,931 | 610,417 | |
| 1 | .0 422: Employee Benefits | 627,481 | 441,079 | 94,973 | 185,141 | 721,193 | 1,348,674 | |
| 1; | 1 423: Payroll Taxes | 181,698 | 133,734 | 25,350 | 62,654 | 221,738 | 403,436 | |
| ij | 2 430: AFUDC-Debt | 2,940,954 | 190,052 | 36,432 | 92,899 | 319,383 | 3,260,337 | |
| ij | .3 431: AFUDC-Equity | 7,846,125 | 513,108 | 96,597 | 248,795 | 858,500 | 8,704,625 | |
| 17 | .4 501: Outside Svcs-General | 453,275 | 775,828 | 169,466 | 62,767 | 1,008,061 | 1,461,336 | |
| 1; | .5 502: Outside Svcs-Legal | 136,675 | 41,099 | • | • | 41,099 | 177,774 | |
| 16 | .6 503: Outside Svcs-TempHire | 2,916 | | | | • | 2,916 | |
| 1, | 7 505: Outside Svcs-Constr | 69,339,679 | 614,746 | 59,095 | 79,883 | 753,723 | 70,093,402 | 70,093,402 |
| 18 | .8 506: Outside Svcs-Engr | 483,431 | 580,122 | 248,729 | 284,614 | 1,113,464 | 1,596,895 | |
| 15 | .9 508: Outside Svcs-Environ | 1,213,832 | | | | • | 1,213,832 | |
| 7 | 20 520: Mainland Travel | 86,254 | 1 | 4,104 | , | 4,104 | 90,358 | |
| 2, | 1 522: Interisland Travel | 1,706 | | | | • | 1,706 | |
| 22 | 2 570: Rents | 9,300 | | | | • | 9,300 | |
| 23 | 3 521: Meals | 13,010 | | 192 | • | 192 | 13,202 | |
| 24 | 4 900: Fin Stmt Items | 314,048 | | | | • | 314,048 | |
| 25 | 5 Grand Total | 127,991,185 | 8,382,735 | 1,960,274 | 2,940,801 | 13,283,810 | 141,274,996 | 103,686,779 |
| | Bonus Depr | 20% | 20% | 20% | 20% | | | 4% |
| | To Tax Depr | 63,995,593 | 4,191,368 | 980,137 | 1.470.400 | | | 4.147.471 |

Note 1: Project was placed into service on June 7, 2018.

Note 2: To arrive at direct costs per categories listed in PUC-HECO-IR-7 Attachment 2:

| 96 | 34 | 22 | 0.0 | e 5 |
|------------------------|---|---------------------------|----------------------------------|--------|
| 141,274,99 | 15,802,98 | 11,964,96 | 113,507,050 | Note |
| 13,283,810 | 3,819,546 | 1,177,883 | 8,286,381 | Note 4 |
| 2,940,801 | 922,436 | 341,694 | 1,676,671 | |
| | 501,358 | ١ | | |
| 8,382,735 | 2,395,752 | 703,160 | 5,283,823 | |
| 127,991,185 | 11,983,438 | 10,787,079 | 105,220,669 | Note 3 |
| Grand Total per Row 25 | Less: Overheads (rows 6, 7, 8, 9, 10, 11) | Less: AFUDC (rows 12, 13) | Total Direct Costs by Major Area | |
| 56 | 27 | 78 | 29 | |
| | | | | |

Note 3: Agrees to 'Total Generating Station' per PUC-HECO-IR-7 Attachment 2 row 5

Note 4: Agrees to 'Total Interconnection' per PUC-HECO-IR-7 Attachment 2 row 10 (minor difference in total for 46kV, Telecom, and Wahiawa Sub due to Project Management costs being allocated in Attachment 1 vs. not allocated in Attachment 2).

Note 5: Agrees to 'Subtotal Direct Costs' per PUC-HECO-IR-7 Attachment 2 row 11.

| ie out of TCI: | | | | | | |
|-----------------------|------------|---------|-----------------|---------|-----------|------------|
| VFUDC | 10,787,079 | 703,160 | 60 133,029 341, | 341,694 | 1,177,883 | 11,964,962 |
| atio - 5 year average | 64.13% | 64.13% | 64.13% | 64.13% | 64.13% | 64.13% |
| ם | 6,918,141 | 450,962 | 85,316 | 219,141 | 755,419 | 7,673,560 |

HECO-WP-L-002 PAGE 4 OF 5

Hawaiian Electric Company, Inc. Annual - TCI Closed to AFUDC Closed Ratio

| 5 Yr Ave | 22,038,913 | 34,364,072 | 0.641336 |
|----------|------------|------------|----------|
| 2017 | 5,036,221 | 8,278,273 | 0.608366 |
| 2016 | 4,056,549 | 6,540,575 | 0.620213 |
| 2015 | 4,299,588 | 6,668,924 | 0.644720 |
| 2014 | 4,825,860 | 7,365,025 | 0.655240 |
| 2013 | 3,820,695 | 5,511,275 | 0.693251 |
| | TCI | AFUDC | Ratio |

Hawaiian Electric Company, Inc. MPIR Removal Costs Actuals Through June 30, 2018

| Indicator Code | NR |
|---------------------------|---------------|
| Row Labels | Sum of amount |
| 150: Labor Cost | 83,369 |
| 155: Labor True-up | 7,161 |
| 205: Matl-Purchasing Card | 46 |
| 404: Energy Delivery | 38,302 |
| 406: Corp Admin Expense | 15,495 |
| 421: Non-Productive Wages | 10,390 |
| 422: Employee Benefits | 22,600 |
| 423: Payroll Taxes | 7,639 |
| Grand Total | 185,002 |

SOURCE: UIPlanner Actual Data

Exhibit C

Updated Schedule L

Excerpt from Docket No. 2017-0213 - Schofield Generating Station MPIR Adjustment Mechanism Cost Recovery Request Hawaiian Electric's Business Case Analysis Supporting Net O&M Project Costs and Update of Target Revenues, filed September 6, 2018. Approved in Order No. 35953, issued December 14, 2018. Effective October 1, 2018. Pages 10 through 13.

SCHEDULE L PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK REVENUE REQUIREMENT AND DETERMINATION OF MAJOR PROJECT INTERIM RECOVERY MPIR PROJECT \$ in thousands

| Line No. | Description | Reference | Recorded at 12/31/2017 | Recorded at In Service Date (June 2018) | Ending Balance as of 6/30/18 | Average Balance | MPIR | |
|----------|---|-------------------------|------------------------|---|------------------------------------|---------------------------------------|---------------------|-----|
| | (a) | (b) | (c) | (d) | (e) | | (f) | |
| 1 | Return on Investment Gross Plant in Service (not to exceed PUC approved amount) | HECO-WP-L-001 | _ | 141,275 | 141,275 | 70,638 | | |
| 2 | Accum Depreciation | Schedule TBD | - | - | - | 70,030 | | |
| 3 | Net Cost of Plant in Service | | - | 141,275 | 141,275 | 70,638 | | |
| 4 | Fuel Inventory - Avoided | Note 3 | _ | (1,534) | (1,534) | (767) | | |
| 5 | M&S Inventory | Note 3 | - | 100 | 100 | 50 | | |
| 6 | Total Additions | | - | (1,434) | (1,434) | (717) | | |
| 7 | CIAC | Schedule TBD, if needed | - | - | - | - | | |
| 8 | ADIT | HECO-WP-L-002 | - | (8,689) | (8,689) | (4,344) | | |
| 9 | State ITC | HECO-WP-L-002 | | (4,147) | (4,147) | (2,074) | | |
| 10 | Total Deductions | | - | (12,836) | (12,836) | (6,418) | | |
| 11 | Total Rate Base | | \$ - | \$ 127,005 | \$ 127,005 | 63,502 | | |
| 12 | Average Rate Base | | | | | \$ 63,502 | | |
| 13 | Rate of Return (grossed-up for income taxes, before revenue taxes) | Note 4 | | | - | 9.47% | | |
| 14 | Annualized Return on Investment (before revenue taxes) | | | | | | \$ 6,0 | 014 |
| 15 | Depreciation Expense (Note 1) | Schedule E | | | | - | | |
| 16 | Operating & Maintenance Expense | Note 2 | | | | 1,787 | | |
| 16a | Prior year reconciliation of O&M to actuals | Note 2 | | | | - | | |
| 17 | Amortization of State ITC | see line 6 | | | | - | | |
| 18 | Lease Rent Expense | Schedule TBD, if needed | | | | | | |
| 19 | Other Expense | Schedule TBD, if needed | | | - | - | | |
| 20 | Total Expenses | | | | | | \$ 1,7 | 787 |
| 21 | Total Major Project Interim Recovery | | | | | | \$ 7,8 | 301 |
| 22 | Revenue Tax Factor (1/(1-8.885%)) | | | | | | 1.0 | 975 |
| 23 | Annualized Revenue for Major Project Interim Recovery | | | | | | \$ 8,56 To Sch B | |
| | | | | | Decensiii-# | n to Cabadul - Di | 1 (Info Onlin) | |
| | | | | Sum of | Monthly Factors | on to Schedule Br for Jul-Dec 2018 | | 37% |

| Reconciliation to Schedule B1 (Info Only) | | | | | | |
|---|----|--------|--|--|--|--|
| Sum of Monthly Factors for Jul-Dec 2018 | | 51.67% | | | | |
| Prorated MPIR for Year 1 | \$ | 4,424 | | | | |
| Rev Tax Adj | \$ | (393) | | | | |
| Prorated MPIR for Year 1 excl Rev Tax | \$ | 4,031 | | | | |

Note 1: Depreciation expense is recorded beginning in the year after an asset is placed in service, therefore, depreciation expense is zero in year 1. The revenue requirement for year 2 and thereafter will include depreciation expense at existing, approved depreciation accrual rates at the time of filing.

Note 2: Total O&M expense is estimated to cost \$1.787 million annually for year 1 (\$2.087 million annually during the interim period thereafter), as referenced within Attachment 1 - SGS Business Case Revenue Requirement Update.

Note 3: Difference in fuel inventory and difference in materials & supplies inventory derived from the "with Schofield" and "without Schofield" rate bases in the HECO 2017 test year rate cases. See Docket No. 2016-0328 HECO-3201 p. 3 and HECO-3203 p. 3.

Note 4: Transmittal No. 18-01 (Decoupling) - Hawaiian Electric's RBA Rate Adjustment, Schedule D, filed May 29, 2018.

Exhibit D

Updated Schedule B1

SCHEDULE B1 PAGE 1 OF 1

\$000\$ \$000\$

\$35,971 0.46429 -\$603 -\$2,143 0.60000

| Docket No. 2016-0328 Amounts | (m) | \$ 1,529,709 \$ - \$ | \$ (327,609) \$ (466,211) \$ (135,915) | \$ 599,974 | | \$ 13,828 \$ (1,229) \$ 12,599 | \$ 8,561 \$ (761) \$ 7,801 | | · • | \$ 620,374 | 2019 | \$50,808,650 \$47,086,404 \$50,250,313 \$49,505,864 \$52,111,435 | \$249,762,666 |
|---|--------|---|---|--|--|--|---|--|--|---|--|--|---|
| Docket No. 2016-0328 Amounts | () | \$ 1,529,709 \$ - \$ - | \$ (327,609) \$ (466,211) \$ (135,915) | \$ 599,974 | · · · | \$ 13,828 \$ (1,229) \$ 12,599 | \$ 8,561 \$ (761) \$ 7,801 | | · & | \$ 620,374 | 2018 | \$53,972,558 \$55,461,456 \$55,662,371 \$54,841,082 \$51,242,912 | \$320,547,365 |
| Docket No. 2016-0328 Amounts | (k) | 1,529,709 | (327,609) (466,211) (135,915) | 599,974 | | 13,828 (1,229) 12,599 | | | | 612,574 | 2018 | \$49,434,694 | \$49,434,694 |
| Docket No. 2016-0328 Amounts | (0) | 1,529,709 \$ | (327,609) \$ (466,211) \$ (135,915) \$ | 599,974 \$ | | | | (16) \$ 1 \$ (14) \$ | | \$ 096'669 | Note (8) 2018 | \$28,726,095 | \$79,122,753 |
| Docket No. C 2016-0328 2 Amounts | (i) | 1,581,445 \$ (5,000) \$ (6,000) \$ | (327,609) \$ (466,211) \$ (139,534) \$ | 637,091 \$ | . | ωω | . | (16) \$ | ٠ | \$ | Note (6), (8) 2018 | \$22,450,132 \$51,603,222 \$20,335,492 | \$94,388,846 |
| Docket No. Do 2010-0080 20 Amounts |]] | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | 101,131 \$ (8,986) \$ 92,146 \$ | ∞ ∞ | ⇔ ⇔ | (16) \$ 1 \$ (14) \$ | · | 604,302 | Note (6) No 2018 | ,022 | \$72,451,465 |
| Docket No. Do 2010-0080 20 Amounts A |]] | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | 101,131 \$ (8,986) \$ 92,146 \$ | өө | <i></i> | (16) \$ 1 \$ (14) \$ | ٠ | 604,302 \$ | A 2017 | | \$364.152.243 |
| Docket No. Do 2010-0080 20: Amounts Ar |] [| 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | өө | . | ₩₩ | ⇔ | 49 | 2017 | 7,623 7,848 7,623 7,574 1,842 | \$235,543,510 \$36 |
| Docket No. Doc 2010-0080 201 Amounts An |] [| 1,765,954 \$ 1 | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | ∞ ∞ | өө | <i></i> | 6 69 69 | 9 | | 2016 | \$4 \$4 \$4 \$50 \$51 \$61 \$61 \$61 \$61 \$61 \$61 \$61 \$61 \$61 \$6 | |
| Doct 2010 | | \$000s \$000s \$000s |) \$ 8000\$) \$ 8000\$) \$ 8000\$ | \$ \$000\$ | \$ \$000\$ \$ \$000\$ | \$ \$000\$ \$ \$000\$ | \$000\$ \$000\$ \$ | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | \$ \$000\$ | \$000\$ \$000\$ \$000\$ | Note (4) 2 | - | l. |
| Reference | (q) | Note (1), (5), (7), (7a) \$ Note (5) \$ Note (5) \$ | Note (1), (5), (7), (7a) \$ Note (1), (5), (7), (7a) \$ | Sum Lines 14 | Note (2) \$ \$ Lines 6 + 7 | Note (9) \$ | Schedule L \$ | Note (2), (9) \$ | Note (2), (9) | 118) 118) 118) | (81+ | 8 1.10% 7 7.84% 8 4.44% 9 6.47% 9 6.64% 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | |
| Description | (a) | Last Rate Case Annual Electric Revenue at Approved Rate Levels Less: Holdback of Interim Revenues Less: Customer Benefit Adjustment | Less: Fuel Expense Purchased Power Expense Revenue Taxes on Line 1 to 1b (8.885% statutory rates) | Last Rate Order Target Annual Revenues | Authorized RAM Revenues Less: Revenue Taxes on Line 12 at 8.885% Net RAM Adjustment - Test Year +6 | Authorized RAM Revenues Less: Revenue Taxes on Line 12 at 8.885% Net RAM Adjustment - Test Year +1 | Authorized MPIR Revenues Less: Revenue Taxes on Line 12 at 8.885% Net MPIR Adjustment | Less: EARNINGS SHARING REVENUE CREDITS Less: Revenue Taxes on Line 15 at 8.885% Net Earnings Sharing Revenue Credits | PUC-ORDERED MAJOR OR BASELINE CAPITAL CREDITS: | Total Annual Target Revenues June 1, 2017 Annualized Revenues w/RAM Increase February 16, 2018 Annualized Revenues w/Interim Increase April 13, 2018 Annualized Revenues w/RAM increase June 1, 2018 Annualized Revenues w/RAM increase June 1, 2018 Annualized Revenues w/RAM increase | MPIK eff //1/18 Distribution of Target Revenues by Month: | January February March April May June July September October November | December Total Distributed Target Revenues |
| e E | | 13 - Las | 2 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 5 La | 9 ~ 8 | 6 2 7 | 25 14 | 15 Les 16 17 | 18 | 19 Tol | | 27. 28. 29. 39. 39. 39. 39. 39. 39. 39. 39. 39. 3 | |

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

Footnotes:

ATTACHMENT 1

Schedule B1, Schedule L and Supporting Workpapers

HAWAIIAN ELECTRIC COMPANY, INC.

Excerpt from Transmittal No. 19-01 - Notice Transmittal to Update Target Revenue for Schofield Generating Station through the Major Project Interim Recovery Adjustment Mechanism, filed February 7, 2019 and effective January 1, 2019. Pages 14 through 22.

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SCHEDULE B1 (REVISED 02/07/19) PAGE 1 OF 1

\$000\$ \$000\$

\$35,971 0.46429 -\$603 -\$2,143 0.60000

| Last Rate Case Ann | | | | | | | Silbolic | SIIID | AIIIOUIIIS | 1 | *** | | ŀ | | | Singilia | | 2 | SIIDOILL |
|--|---|---|---|--|----------------------------|--|----------------------------|--|--|--------------------------|--|---------------------|-------------------------------|--|----------------------------|--|------------------------------|--|--|
| ast Rate Case Ann | (a) | (q) | | (e) | | € | (a) | - | Ē) | | Ξ | - | 9 | <u>\$</u> | | € | E) | | Ē |
| Less: Holdback of Interim Revenues Less: Customer Benefit Adjustment | Last Rate Case Annual Electric Revenue at Approved Rate Levels Less: Holdback of Interim Revenues Less: Customer Benefit Adjustment | Note (1), (5), (7), (7a) Note (5) Note (5) | \$000\$ \$000\$ | \$ 1,765,954 | | \$ 1,765,954 | \$ 1,765,954 | | \$ 1,765,954 | \$ \$ \$ | 1,581,445 (5,000) (6,000) | \$ \$ \$ | 1,529,709 | \$ 1,529,709 \$ - \$ - | \$ \$ \$ 60 | 1,529,709 | \$ 1,529,709 \$ - \$ - | \$ 602, | 1,529,709 |
| Less: Fuel Expense Purchased Po Revenue Taxe | Fuel Expense Purchased Power Expense Revenue Taxes on Line 1 to 1b (8.885% statutory rates) | Note (1), (5), (7), (7a) Note (1), (5), (7), (7a) | \$000\$ \$000\$ | \$ (658,172) \$ (438,707) \$ (156,905) | 72) \$ 07) \$ 05) \$ | (658,172) (438,707) (156,905) | \$ (65 \$ (43 \$ (15 | (658,172) \$ (438,707) \$ (156,905) \$ | \$ (658,172) \$ (438,707) \$ (156,905) | (2) (2) (5) (5) | (327,609) (466,211) (139,534) | \$ \$ \$ | (327,609) (466,211) (135,915) | \$ (327,609) \$ (466,211) \$ (135,915) | 09) \$ 11) \$ 15) \$ | (327,609) (466,211) (135,915) | 6 6 6 6 | (327,609) \$ (466,211) \$ (135,915) \$ | (327,609) (466,211) (135,915) |
| ast Rate Order Tar | Last Rate Order Target Annual Revenues | Sum Lines 14 | \$000\$ | \$ 512,170 | \$ 02 | 512,170 | \$ 51 | 512,170 \$ | \$ 512,170 | \$ 0. | 637,091 | € | 599,974 | \$ 599,974 | 74 \$ | 599,974 | \$ 296 | 599,974 \$ | 599,974 |
| Authorized R Less: Revent Net RAM Adj | Authorized RAM Revenues Less: Revenue Taxes on Line 6 at 8.885% Net RAM Adjustment - Test Year +6 | Note (2) Lines 6 + 7 | \$000\$ \$000\$ | · · · · · · · · · · · · · · · · · · · | ↔ ↔ | | 8 8 8 | (8,986) (92,146 | \$ 101,131 \$ (8,986) \$ 92,146 | 31 86) 8 8 | | ↔ ↔ | | · · · · · · · · · · · · · · · · · · · | မ မ | | ω ω | φ φ φ | |
| Authorized R Less: Revent Net RAM Adj | Authorized RAM Revenues Less: Revenue Taxes on Line 9 at 8.885% Net RAM Adjustment - Test Year +1 | Note (9) Lines 9 + 10 | \$000\$ \$000\$ | φ φ φ | မ မ | | & & & | | 9 9 9 | မ မ မ | | • • • | | \$ 13,828 \$ (1,229) \$ 12,599 | 28 29 99 \$ | 13,828 (1,229) 12,599 | • • • | 13,828 \$ (1,229) \$ 12,599 \$ | 13,828 (1,229) 12,599 |
| Authorized MPIR Reve Less: Revenue Taxes Net MPIR Adjustment | Authorized MPIR Revenues Less: Revenue Taxes on Line 12 at 8.885% Net MPIR Adjustment | Schedule L Lines 12 + 13 | \$000\$ \$000\$ | φ φ φ | ∞ ∞ | | \$ \$ \$ | | · · · · · · · · · · · · · · · · · · · | မှ မှ | | & & & | | φ φ φ | မ မ မ | 6,600 (586) 6,014 | & & & | 8,561 \$ (761) \$ 7,800 | 19,811 (1,760) 18,051 |
| Less: EARNINGS S Less: Revent Net Earnings | EARNINGS SHARING REVENUE CREDITS Less: Revenue Taxes on Line 15 at 8.885% Net Earnings Sharing Revenue Credits | Note (2), (9) Lines 15 + 16 | \$000\$ \$000\$ | φ φ φ | \$ \$ \$ | | \$ \$ \$ | (16) \$ | 5 8 8 | (16) \$ (14) \$ | (16) | \$ \$ \$ | (16) 8 | 9 9 9 | မ မ မ | | өө | φ φ φ | |
| PUC-ORDER | PUC-ORDERED MAJOR OR BASELINE CAPITAL CREDITS: | Note (2), (9) | \$000\$ | € | ₩. | | ₩. | * | · \$ | ↔ | | €9 | | \$ | ₩. | , | € | φ. | ' |
| Total Annual Target Revenues June 1, 2017 Annualized February 16, 2018 Annualized April 13, 2018 Annualized June 1, 2018 Annualized June 1, 2018 Annualized June 1, 2018 Annualized June 1, 2018 Annualized | Innual Target Revenues June 1, 2017 Amualizad Revenues w/RAM Increase Petubary 16, 2018 Amualizad Revenues w/RAM Increase April 13, 2018 Amualizad Revenues w/RAM Increase June 1, 2018 Amualizad Revenues w/RAM Increase Ment, 2018 Amualizad Revenues w/RAM Increase Ment, 2018 Amualizad Revenues w/RAM Increase & Mel Ref 71/18 Mel 2, 2018 Amualizad Revenues w/RAM Increase & Mel Ref 71/18 | Col (g), lines (5+8+17+18) Col (l), lines (5+8+17+18) Col (k), lines (5+8+17+18) Col (k), lines (5+9+17+18) Col (l), lines (5+11+14+17+18) Col (l), lines (c) (l), lines (c) (l), lines | \$000\$ \$000\$ \$000\$ \$000\$ | | | | 9 | 604,302 \$ | \$ 604,302 | \$ | 637,077 | ₩ | 299,960 | \$ 612,574 | 4 ⁷ | 618,587 | \$ 620 | 620,374 | |
| June 1, 2018 Annua MPIR eff 1/1/19 | June 1, 2018 Annualized Revenues w/RAM Increase & MPIR eff 1/1/19 | Col (m), lines (5+11+14+17+18) | \$000\$ | | | | | | | | | | | | | | | 63 | 630,624 |
| istribution of Targe | Distribution of Target Revenues by Month: | Note (3) | Note (4) | 2016 | | 2017 | 2017 | 17 | Note (6) 2018 | | Note (6), (8) 2018 | ў % | Note (8) 2018 | 2018 | _ | Note (10) 2018 | Note (10a) 2018 | 0a) | Note (10b) 2019 |
| January February March April May | | 8.10% 7.26% 8.10% 7.84% 8.44% | 8.19% 7.59% 8.10% 7.98% 8.40% | | ļ | \$48,009,623 \$43,030,848 \$48,009,623 \$46,468,574 \$50,024,842 | l | | \$48,948,443 \$23,503,022 | l | \$22,450,132 \$51,603,222 \$20,335,492 | | \$28,726,095 \$50,396,658 | | | | | | \$51,648,125 \$47,864,379 \$51,080,563 \$50,323,814 \$52,972,435 |
| June July August September October November | | 8.47% 9.04% 9.04% 8.68% 8.78% 8.26% | 8.07% 8.70% 8.65% 8.85% 8.26% | \$50,202,656 \$51,980,790 \$53,581,111 \$51,447,350 \$52,040,061 \$48,957,962 | | | | \$51,184,359 \$52,997,265 \$54,628,879 \$52,453,393 \$53,057,695 \$49,915,326 | | | | | | \$49,434,694 | | \$53,817,090 \$55,301,700 \$53,507,797 | \$54,841,062 \$51,242,893 | | |
| December Total Distributed Target Revenues | det Revenues | 8.26% | 100.00% | \$48,957,962 | | \$235,543,510 | \$364.1 | \$49,915,326 \$364,152,243 | \$72.451.465 | ļ | \$94,388,846 | \$79 | \$79.122.753 | \$49,434,694 | U | \$162,626,587 | \$51,366,968 | | \$253,889,316 |

Docket No.

HAWAIIAN ELECTRIC COMPANY, INC, DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

Docket No. 2010-0080 amounts derived from Order No. 30576, filed August 9, 2012, effective September 1, 2012, which implemented Decision and Order No. 30505, Exhibit A, page 1, filed June 29, 2012. Transmitted 17-20 filed March 31, 2017 establishing 2017 target revenue effective June 1, 2017.

RBA Tariff Revised July 26, 2011 to reflect 2011 test) year.

RBA Tariff Elecuye February 18, 2018 to reflect 2017 test year.

RBA Tariff Elecuye February 18, 2018 to reflect 2017 test year.

RBA Tariff Elecuye February 18, 2018 to reflect 2017 test year.

Test Year 2017 Interim Increase provided for in Interim Decision and Order 3510.0 issued December 15, 2017 in Docket No. 2016-0328.

For the month of the Interim Increase provided for in Interim Decision and Order 3510.0 issued December 15, 2018, in accordance with Order No. 35335, issued March 2018 decision and Order 3510.0 issued December 15, 2018, in accordance with Order No. 35335, issued March 2018 decision and Order 3510.0 issued December 16, 2018, in accordance with Order No. 35335, issued August 17, 2018 approved in Order No. 3545, target revenue effective June 1, 2018.

MPIR Revenues effective October 1, 2018 approved in Order No. 3545, issued December 14, 2018 in Docket No. 2017-0213.

MPIR Revenues effective Lanuary 1, 2019 approved in Order No. 3545, issued December 14, 2018 in Docket No. 2017-0213.

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SCHEDULE L (REVISED 02/07/19) PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK REVENUE REQUIREMENT AND DETERMINATION OF MAJOR PROJECT INTERIM RECOVERY MPIR PROJECT \$ in thousands

| | | | | | | | Ending | | | |
|----------|--|--------------------|------|----------|----------|---------|---------------|-------------------|------|--------------|
| | | | Reco | rded at | 2019 | | Balance | Average | | |
| Line No. | Description | Reference | 12/3 | 1/2018 | Activity | a | s of 12/31/19 | Balance | | MPIR |
| | (a) | (b) | | (c) | (d) | | (e) | (f) = ((c)+(e))/2 | | (g) |
| | Return on Investment - Schofield Generating Station | () | | ` ' | () | | ` ' | () (() ()) | | (3) |
| 1 | Gross Plant in Service (not to exceed PUC approved amount) | HECO-WP-L-001 | | 141,570 | | _ | 141,570 | 141,570 | | |
| 2 | Accum Depreciation | HECO-WP-L-001 | | - | (4 | 586) | (4.586) | (2,293) | | |
| 3 | Net Cost of Plant in Service | | - | 141,570 | | 586) | 136,984 | 139,277 | | |
| _ | | | | , | (- , | , | , | , | | |
| 4 | Fuel Inventory - Avoided | Note 3 | | (1,534) | | _ | (1,534) | (1,534) |) | |
| 5 | M&S Inventory | Note 3 | | 100 | | _ | 100 | 100 | | |
| 6 | Total Additions | 11010 0 | - | (1,434) | | | (1,434) | (1,434) | | |
| Ū | Total / taditions | | | (1,404) | | | (1,404) | (1,404) | , | |
| 7 | CIAC | Not Applicable | | _ | | _ | _ | _ | | |
| 8 | ADIT | HECO-WP-L-002 | | (8,653) | (1 | 540) | (10,193) | (9,423) | ١ | |
| 9 | State ITC | HECO-WP-L-002 | | (4,124) | | 412 | (3,712) | (3,918) | | |
| 10 | Total Deductions | 11200 111 2 002 | | (12,777) | | 128) | (13,905) | (13,341) | | |
| 10 | Total Deductions | | | (12,111) | (1, | 120) | (13,303) | (10,041) | , | |
| 11 | Total Rate Base | | \$ | 127,359 | ¢ (5 | 713) \$ | 121,646 | 124,502 | | |
| | Total Nate Base | | Ψ | 121,000 | Ψ (5, | /10) ψ | 121,040 | 124,502 | | |
| 12 | Average Rate Base | | | | | | | \$ 124,502 | | |
| | /// sage rate base | | | | | | | | | |
| 13 | Rate of Return (grossed-up for income taxes, before revenue taxes) | Note 4 | | | | | | 9.47% | | |
| | (9 , | | | | | | | | - | |
| 14 | Annualized Return on Investment (before revenue taxes) | | | | | | | | \$ | 11,790 |
| | , | | | | | | | | | , |
| 15 | Depreciation Expense (Note 1) | HECO-WP-L-001 | | | | | | 4,586 | | |
| 16 | Operating & Maintenance Expense | Note 2 | | | | | | 2,087 | | |
| 16a | Prior year reconciliation of O&M to actuals | Note 2 | | | | | | - | | |
| 17 | Amortization of State ITC | see line 6 | | | | | | (412) |) | |
| 18 | Lease Rent Expense | Not Applicable | | | | | | `- ' | , | |
| 19 | Other Expense | Not Applicable | | | | | | _ | | |
| 20 | Total Expenses | . tot / tppilodbio | | | | | | | - \$ | 6,260 |
| | · · · · · · · · · · · · · · · · · · · | | | | | | | | * | -, |
| 21 | Total Major Project Interim Recovery | | | | | | | | \$ | 18,051 |
| | , , | | | | | | | | | ,,,,, |
| 22 | Revenue Tax Factor (1/(1-8.885%)) | | | | | | | | | 1.0975 |
| | , | | | | | | | | | |
| 23 | Annualized Revenue for Major Project Interim Recovery | | | | | | | | \$ | 19,810.8 |
| | | | | | | | | | Т | o Sch B & B1 |

| | | Reconciliation | on to | Schedule B | 1 (Ir | fo Only) |
|---------------------------------------|-----|----------------|-------|------------|-------|----------|
| | Jul | - Sep 2018 | Oct | - Dec 2018 | | 2019 |
| Annualized Revenue for MPIR | \$ | 6,600 | \$ | 8,561 | \$ | 19,811 |
| Rev Tax Adj | \$ | (586) | \$ | (761) | \$ | (1,760) |
| Prorated MPIR for Year 1 excl Rev Tax | \$ | 6,014 | \$ | 7,800 | \$ | 18,051 |
| Incremental | \$ | 6,014 | \$ | 1,787 | \$ | 10,250 |
| | | Note 5 | | Note 6 | | |

Note 1: Depreciation expense is recorded beginning in the year after an asset is placed in service, therefore, depreciation expense is zero in year 1. The revenue requirement for year 2 and thereafter will include depreciation expense at existing, approved depreciation accrual rates at the time of filing.

Note 2: Total O&M expense is estimated to cost \$1.787 million annually for year 1 (\$2.087 million annually during the interim period thereafter), as referenced within Attachment 1 - SGS Business Case Revenue Requirement Update and approved in Order No. 35953, filed December 14, 2018.

- Note 3: Decision and Order No. 35556 dated June 27, 2018 in Docket No. 2017-0213.
- Note 4: Transmittal No. 18-01 (Decoupling) Hawaiian Electric's RBA Rate Adjustment, Schedule D, filed May 29, 2018.
- Note 5: MPIR Revenues effective July 1, 2018 approved in Order No. 35647, issued August 15, 2018 in Docket No. 2017-0213.
- Note 6: MPIR Revenues effective October 1, 2018 filed December 21, 2018 in Docket No. 2017-0213.

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4,585,844

Schofield Generating Station Plant Addition As of December 31, 2018

| | (Note 1) | | | | (Note 2) | |
|--------------------|---------------------------|------------------------|----------------------|--------------|----------------|-------------------------------|
| Utility Account | PUC Approved Accrual Rate | Balance at 12/31/18 | Depreciation 2019 | Allocation % | Subject to Cap | Depreciation 2019 (at Cap) |
| Account | a | b | c = a x b | d | e = d x Cap | f = a x e |
| 343 | 0.03260 | 142,147,612 | 4,634,012 | 98.2% | 139,030,987 | 4,532,410 |
| 352 | 0.01600 | 2,003,490 | 32,056 | 1.4% | 1,959,563 | 31,353 |
| 353 | 0.01860 | 352,190 | 6,551 | 0.2% | 344,468 | 6,407 |
| 397 | 0.06670 | 240.250 | 16.025 | 0.2% | 234.983 | 15.673 |

4,688,643

100.0%

141,570,000

Source: SAP and Powerplan WBS.

Note 1:

Depreciation rates approved in Docket No. 2010-0053, Decision and Order, filed May 12, 2011.

144,743,542

Note 2:

Decision and Order No. 33178, p. 84-85, Docket No. 2014-0113, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for the Purchase and Installation of Item P0001576, Schofield Generating Station Project, filed 09/29/2015. The Commission approved a cap on the amount of the total costs that may be recovered through any cost recovery mechanism other than base rates at 90% of the \$167 million cap. The \$167 million cap shall further be adjusted downward due to a reduction in the foreign exchange rate.

In the Letter to Commission Re: Docket No. 2014-0113, Schofield Generating Station; Notification of Euro Exchange Rate and Adjusted Project Cap, filed 01/27/2016, the Company locked in the foreign exchange rate at \$1.0928/euro which adjusted the project cap down from \$167 million to \$157.3 million. Revised cap on the amount of total costs allowed to be recovered through any cost recovery mechanism other than base rates is \$141.57 million (\$157.3 million x 90%).

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| HAWAIIAN ELECTRIC CO., INC. SCHOFIELD GENERATING STATION - WITH BONUS DECEMBER 31, 2019 | VITH BONUS | | | | | | | 2019 Add | ppv | |
|---|-------------------|---------------------------|-------------------------|--------------------------|--------------------------|----------------------|---------------------------|---------------------------------------|--------------------|---|
| FEDERAL DEFERRED TAXES | source | Tax Depreciation | AFUDC | Tax Cap Interest | State ITC | Removal | 2018 Total | Book/Tax Depr | State ITC Amort | 2019 Total |
| 1 State Book/Tax Difference | HECO.WP.I001 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (12,753,951) | (412 415) | (19,716,566) |
| 2 Door Depocation 3 Subtotal | Line 1 + Line 2 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (8,168,107) | (412,415) | (15,543,137) |
| 4 Effective Federal Tax Rate | | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% |
| 5 Federal Def Tax on State Book/Tax Diff | Line 3 * Line 4 | (1,323,584) | (2,309,724) | 1,481,649 | 813,976 | (36,513) | (1,374,197) | (1,612,123) | (81,398) | (3,067,718) |
| 6 Addback State Book/Tax Difference 7 Federal Book/Tax Difference 8 Rook Demeciation | Line 3 | 6,706,173 (39,373,231) | 11,702,627 (11,702,627) | (7,507,036) 7,507,036 | (4,124,152) 4,124,152 | 185,002 (185,002) | 6,962,615 (39,629,673) | 8,168,107 (9,565,463) 4,585,844 | 412,415 | 15,543,137 (49,195,136) 4 173 428 |
| | Line 6 + 7 + 8 | (32,667,058) | | 1 | | ı | (32,667,058) | 3,188,488 | | (29,478,570) |
| 10 Tax Rate on Federal Only Adjustment | | 21% | 21% | 21% | 21% | 21% | 21% | 21% | 21% | 21% |
| 11 Federal Deferred Tax Adjustment | Line 9 * Line 10 | (6,860,082) | | | | | (6,860,082) | 669,582 | | (6,190,500) |
| 12 Total Federal Deferred Taxes | Line 5 + Line 11 | (8,183,666) | (2,309,724) | 1,481,649 | 813,976 | (36,513) | (8,234,279) | (942,541) | (81,398) | (9,258,218) |
| STATE DEFERRED TAXES | П | | | | | | | | | |
| 13 State Book/Tax Difference | Line 1 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (12,753,951) | - (212, 215) | (19,716,566) |
| | Line 1 + Line 2 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (8,168,107) | (412,415) | (15,543,137) |
| 16 Effective State Tax Rate | | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% |
| 17 Total State Deferred Taxes | Line 15 * Line 16 | (403,379) | (703,917) | 451,551 | 248,069 | (11,128) | (418,804) | (491,315) | (24,807) | (934,926) |
| 18 TOTAL DEFERRED TAXES | Line 12 + Line 17 | (8,587,045) | (3,013,641) | 1,933,200 | 1,062,045 | (47,641) | (8,653,083) | (1,433,856) | (106,205) | (10,193,144) |

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| CO., INC. | | TON STATION |
|-----------------------------|------------------|------------------------------|
| HAWAIIAN ELECTRIC CO., INC. | TAX DEPRECIATION | SCHOFIELD GENERATION STATION |

| Project No. | Description | Book Basis | Less: AFUDC | Add: TCI | Tax Basis | Plant Acct Life Bonus | ife Bon | sr 2018 | 2019 | Net Book Value |
|--|--|--|--|--|--|--|---|--|--|--|
| FEDERAL | _ | | | | | | | | | |
| P0001576 P0001576 P0001576 P0001576 P0001576 | Schofield Generation Station Schofield Generation Station Schofield Generation Station Schofield Generation Station Schofield Generation Station | 64,076,545 64,076,545 5,625,855 5,625,855 1,082,599 1,082,599 | (5,275,285) (5,275,285) (510,973) (510,973) (65,056) (65,056) | 3,384,005 3,384,005 327,780 327,780 41,732 | 62,185,266 62,185,266 5,442,663 5,442,663 1,059,276 1,059,276 | Oth Prod Oth Prod Trans Trans Comm | 15 50% 15 0% 20 50% 20 0% 20 50% 20 0% | 6 32,647,265 3,109,263 6 2,823,381 204,100 6 549,499 | 2,953,800 5,907,600 196,453 392,906 38,235 76,469 | 28,475,480 55,059,682 2,606,021 5,028,849 494,865 966,407 |
| | Total Cumulative | 141,570,000 | (11,702,627) | 7,507,036 | 137,374,409 | | | 39,373,231 | 9,565,463 | 92,631,306 |
| HAWAII | _ | | | | | | | | | |
| P0001576 P0001576 P0001576 | Schofield Generation Station Schofield Generation Station Schofield Generation Station | 128,153,091 11,251,710 2,165,199 | (10,550,569) (1,021,945) (130,112) | 6,768,010 655,561 83,465 | 124,370,532 10,885,325 2,118,551 | Oth Prod Trans Comm | 15 0 20 0 20 0 | 6,218,527 408,200 79,446 | 11,815,201 785,812 152,938 | 110,119,363 10,057,698 1,932,815 |
| | Total Cumulative | 141,570,000 | (11,702,627) | 7,507,036 | 137,374,409 | | | 6,706,173 | 12,753,951 19,460,124 | 122,109,876 |

Hawaiian Electric Company, Inc. Breakdown of SGS Costs by Major Area Actuals through December 2018

| TOTAL PLANT ADDITONS: | A | В | С | D | E=SUM(B:D) | F=A+E | | (Note 1) |
|-------------------------------|-------------|-----------|-----------|------------|-----------------|---------------|--------------|-------------|
| | Generating | | | Making | T 1 | | | Cultination |
| | Station and | | | Wahiawa | Total | | | Subject to |
| Expense Element | Switchyard | 46kV Line | Telecom | Substation | Interconnection | Total Project | Allocation % | Сар |
| Labor | 2,293,428 | 1,712,982 | 305,919 | 741,234 | 2,760,135 | 5,053,564 | 3.5% | 4,942,763 |
| Materials | 32,932,285 | 1,523,772 | 545,040 | 512,566 | 2,581,378 | 35,513,663 | 24.5% | 34,735,016 |
| Vehicles | 2,062 | 117,109 | 187 | 563 | 117,859 | 119,921 | 0.1% | 117,292 |
| Overheads | 12,885,912 | 2,456,221 | 544,975 | 928,736 | 3,929,932 | 16,815,844 | 11.6% | 16,447,152 |
| AFUDC | 10,787,079 | 703,160 | 133,029 | 341,694 | 1,177,883 | 11,964,962 | 8.3% | 11,702,627 |
| Outside Services-Construction | 69,147,360 | 614,746 | 59,095 | 80,179 | 754,019 | 69,901,379 | 48.3% | 68,368,772 |
| Outside Services-Other | 2,550,389 | 1,421,977 | 621,195 | 348,999 | 2,392,171 | 4,942,560 | 3.4% | 4,834,193 |
| Other | 427,354 | - | 4,296 | - | 4,296 | 431,650 | 0.3% | 422,186 |
| | 131,025,869 | 8,549,966 | 2,213,736 | 2,953,971 | 13,717,673 | 144,743,542 | 100.0% | 141,570,000 |

| BREAKDOWN SUBJECT TO CAP: | A1 | B1 | C1 | D1 | E1=SUM(B1:D1) | F1=A1+E1 | |
|-------------------------------|-------------|-----------|-----------|------------|-----------------|---------------|-------------|
| | Generating | | | | | | |
| | Station and | | | Wahiawa | Total | | / |
| Expense Element | Switchyard | 46kV Line | Telecom | Substation | Interconnection | Total Project | State ITC |
| Labor | 2,243,144 | 1,675,424 | 299,212 | 724,982 | 2,699,618 | 4,942,763 | |
| Materials | 32,210,236 | 1,490,363 | 533,090 | 501,328 | 2,524,781 | 34,735,016 | 34,735,016 |
| Vehicles | 2,017 | 114,541 | 183 | 551 | 115,275 | 117,292 | |
| Overheads | 12,603,385 | 2,402,368 | 533,026 | 908,373 | 3,843,767 | 16,447,152 | |
| AFUDC | 10,550,569 | 687,743 | 130,112 | 334,202 | 1,152,058 | 11,702,627 | |
| Outside Services-Construction | 67,631,285 | 601,267 | 57,799 | 78,421 | 737,487 | 68,368,772 | 68,368,772 |
| Outside Services-Other | 2,494,471 | 1,390,800 | 607,576 | 341,347 | 2,339,722 | 4,834,193 | |
| Other | 417,984 | = | 4,202 | - | 4,202 | 422,186 | V |
| | 128,153,091 | 8,362,506 | 2,165,199 | 2,889,204 | 13,416,909 | 141,570,000 | (Note 1) |
| Amount subject to bonus | 50% | 50% | 50% | 50% | 50% | 50% | 103,103,789 |
| | 64,076,545 | 4,181,253 | 1,082,599 | 1,444,602 | 6,708,455 | 70,785,000 | 4% |
| - | | | | | | | 4,124,152 |
| | | | 5,625,855 | | | | |
| Tie out of TCI: | | | | | | | |
| AFUDC | 10,550,569 | 687,743 | 130,112 | 334,202 | 1,152,058 | 11,702,627 | |
| ratio - 5 year average | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | |
| TCI | 6,768,010 | 441,175 | 83,465 | 214,385 | 739,025 | 7,507,036 | |
| - | | | | | | | • |
| | | | 655,561 | | | | |

Source: Ellipse & SAP

Note 1

 $Allocated \ 12/31/18 \ Plant \ Addition \ subject \ to \ the \ cap \ of \ \$141.57M. \ \ See \ further \ discussion \ at \ HECO-WP-L-001.$

Hawaiian Electric Company, Inc. Annual - TCI Closed to AFUDC Closed Ratio

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>5 Yr Ave</u> |
|-------|-------------|-------------|-------------|-------------|-------------|-----------------|
| TCI | 3,820,695 | 4,825,860 | 4,299,588 | 4,056,549 | 5,041,274 | 22,043,966 |
| AFUDC | 5,511,275 | 7,365,025 | 6,668,924 | 6,540,575 | 8,278,273 | 34,364,072 |
| | | | | | | |
| Ratio | 0.693251 | 0.655240 | 0.644720 | 0.620213 | 0.608977 | 0.641483 |

HECO-WP-L1-003 PAGE 22 OF 22 HECO-WP-L-001 PAGE 5 OF 5

Hawaiian Electric Company, Inc. MPIR Removal Costs Actuals Through December 31, 2018

| Row Labels | Sum of amount |
|-------------|---------------|
| Labor | 90,530 |
| Materials | 46 |
| Overheads | 94,426 |
| Grand Total | 185,002 |

SOURCE: Ellipse & SAP

HAWAIIAN ELECTRIC COMPANY, INC. 2018 WEIGHTED AVERAGE PIM TARGET, DEADBAND, INCENTIVE CALCULATIONS

| | | | | | | | | | Delta | |
|-------------|-----------------------|-----------|-----------|-------------|----------|-------------|------------|--------------|-----------------|-----------------------|
| | | | Max | | | Range for N | No Penalty | 2018 | vs | |
| | Period | # of Days | Penalty | 2018 Target | Deadband | Lower | Upper | Annual Total | Target | (Penalty) / Reward |
| | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) = (h) - (d) | (j) |
| | | | | | | | | Note 1 | | |
| SAIFI | 1/1/18-2/15/18 | 46 | 2,039,094 | 1.116 | 0.090 | 1.026 | 1.206 | 1.238 | 0.122 | |
| | 2/16/18-4/12/18 | 56 | 2,260,799 | 1.116 | 0.090 | 1.026 | 1.206 | 1.238 | 0.122 | |
| | 4/13/18-8/31/18 | 141 | 2,276,417 | 1.116 | 0.090 | 1.026 | 1.206 | 1.238 | 0.122 | |
| | 9/1/18-12/31/18 | 122 | 2,276,417 | 1.103 | 0.088 | 1.015 | 1.191 | 1.238 | 0.135 | |
| | Annual (Weighted Avg) | 365 | 2,244,112 | 1.112 | 0.089 | 1.022 | 1.201 | 1.238 | 0.126 | (929,827) To Sch M |
| | | | | | | | | Note 1 | | 10 5011 111 |
| SAIDI | 1/1/18-2/15/18 | 46 | 2,039,094 | 99.030 | 9.070 | 89.960 | 108.100 | 106.410 | 7.380 | |
| | 2/16/18-4/12/18 | 56 | 2,260,799 | 99.030 | 9.070 | 89.960 | 108.100 | 106.410 | 7.380 | |
| | 4/13/18-8/31/18 | 141 | 2,276,417 | 99.030 | 9.070 | 89.960 | 108.100 | 106.410 | 7.380 | |
| | 9/1/18-12/31/18 | 122 | 2,276,417 | 99.230 | 8.960 | 90.270 | 108.190 | 106.410 | 7.180 | |
| | Annual (Weighted Avg) | 365 | 2,244,112 | 99.097 | 9.033 | 90.064 | 108.130 | 106.410 | 7.313 | - T. C.I.M |
| | | | | | | | Н | ECO-WP-M-0 | 04 | To Sch M |
| Call Center | 1/1/18-2/15/18 | 46 | 815,638 | 79.07% | 3.00% | 76.07% | 82.07% | 83.97% | | |
| | 2/16/18-4/12/18 | 56 | 904,320 | 79.46% | 3.00% | 76.46% | 82.46% | 83.97% | | |
| | 4/13/18-8/31/18 | 141 | 910,567 | 79.56% | 3.00% | 76.56% | 82.56% | 83.97% | | |
| | 9/1/18-12/31/18 | 122 | 910,567 | 80.10% | 3.00% | 77.10% | 83.10% | 83.97% | | |
| | Annual Totals | 365 | 897,645 | 79.66% | 3.00% | 76.66% | 82.66% | 83.97% | 4.31% | 391,972 To Sch M |

Reference: See Hawaiian Electric Compay Proposed PIM Tariff Revisions, filed on July 23, 2018 in Docket No. 2016-0328. The PIM Tariff Revisions were approved by the Commission in Order No. 35661, filed on August 30, 2018.

Note 1 SAIDI and SAIFI Annual Totals <u>exclude</u> 25 kV Proactive Work (See HECO-WP-M-002):

| | SAIDI | SAIFI | |
|-------------------------------|--------|--------|-----------------------------|
| Occurrences / Minutes | 111.94 | 1.253 | With 25kV Proactive Work |
| Less: Exclusion for 25kV work | -5.52 | -0.015 | |
| Annual Totals | 106.41 | 1.238 | Without 25kV Proactive Work |
| | | | |

HAWAIIAN ELECTRIC COMPANY, INC. 2018 SAIDI and SAIFI Calculations With and Without 25 kV Scheduled Work Outages

| Without 25 kV Scheduled Work Outages | | | | | | | | | | | | | | |
|--|-----------|---------------------------|-------------|-----------|----------------------------|-----------|-------------|-----------|-----------|------------|-----------|-----------|-------------|--------------------------------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | YTD | |
| Hours Interrupted | 28,350.82 | 38,535.98 | 36,195.83 | 48,912.83 | 47,852.78 | 45,741.20 | 26,594.23 | 52,088.65 | 70,669.87 | 38,183.60 | 46,352.93 | 61,396.90 | 540,875.63 | |
| Customer Interruptions | 19,170 | 25,947 | 26,983 | 49,443 | 27,712 | 34,644 | 21,028 | 29,939 | 46,557 | 24,863 | 21,382 | 49,779 | 377,447 | |
| | | | | | | | | | | | | | | |
| SAIDI (Minutes) | 5.58 | 7.58 | 7.12 | 9.62 | 9.41 | 00.6 | 5.23 | 10.25 | 13.90 | 7.51 | 9.12 | 12.08 | 106.41 | HECO-WP-M-001 |
| SAIFI (Occurrences) | 0.063 | 0.085 | 0.088 | 0.162 | 160'0 | 0.114 | 0.069 | 0.098 | 0.153 | 0.082 | 0.070 | 0.163 | 1.238 | HECO-WP-M-001 |
| With 25 kV Scheduled Work Outages | | | | | | | | | | | | | | |
| | Jan | Feb | Mar | Apr | Mav | un]· | lul. | Ang | Sep | Oct | Nov | Dec | VTD | |
| Hours Interrupted | 28,350.82 | 38,535.98 | 36,195.83 | 48,912.83 | 47,852.78 | 45,741.20 | 54,673.72 | 52,088.65 | 70,669.87 | 38,183.60 | 46,352.93 | 61,396.90 | 568,955.12 | |
| Customer Interruptions | 19,170 | 25,947 | 26,983 | 49,443 | 27,712 | 34,644 | 25,686 | 29,939 | 46,557 | 24,863 | 21,382 | 49,779 | 382,105 | |
| | | | | | | | | | | | | | | |
| SAIDI (Minutes) | 5.58 | 7.58 | 7.12 | 9.62 | 9.41 | 0.00 | 10.76 | 10.25 | 13.90 | 7.51 | 9.12 | 12.08 | 111.94 | HECO-WP-M-001 HECO-WP-M-001 |
| SAIFT (Occurrences) | 0.003 | 0.003 | 0.000 | 0.102 | 0.091 | 0.114 | 0.00 | 0.070 | 0.133 | 0.00 | 0.0/0 | 0.103 | 1.633 | HECO-W F-IM-001 |
| Difference Between With and Without 25 kV Scheduled Work Outages (See Note Below) | | | | | | | | | | | | | | |
| Hopernmotel Dans II | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | <u>Oct</u> | Nov | Dec | <u>VTD</u> | |
| Hours Interrupted | | | | | | | (28,0/9) | | | | | | (28,079) | |
| Customer Interruptions | | | | | | | (4,658) | | | | | | (4,658) | |
| SAIDI (Minutes) | ٠ | 1 | ٠ | | | | 5.52 | | | | | | 5.52 | |
| SAIFI (Occurrences) | | | , | | | | 0.015 | | , | , | | | 0.015 | |
| ,) | | | | | | | | | | | | | | |
| Note: | | - | | | | | | | | | | | | |
| | , | | | | | | | | | | | | | |
| 25 kV Schedule Work Outage Events (see HECO-WP-M-003 for more details) | | Customer Interruptions | | | | | | | | | | | | |
| | event | • | Interrupted | | | | | | | | | | | |
| | 7/5/2018 | (329) | (138,838) | | | | | | | | | | | |
| | 7/16/2018 | (881) | (317,160) | | | | | | | | | | | |
| | 7/17/2018 | (1,003) | (399,020) | | | | | | | | | | | |
| | 7/18/2018 | (1,004) | (341,342) | | | | | | | | | | | |
| | 7/19/2018 | (585) | (192,357) | | | | | | | | | | | |
| | 7/23/2018 | (418) | (150,062) | | | | | | | | | | | |
| | 7/24/2018 | (418) | (138,610) | | | | | | | | | | | |
| | 7/25/2018 | (20) | (7,380) | | | | | | | | | | | |
| | Total | (4,658) | (1,684,769) | (28,079) | (28,079) Hours Interrupted | ted | | | | | | | | |
| | | 1-0 | Man | *** | Man | | - | | | 1 | N | - | GE/A | |
| 20 1 - 15 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | Jan | reo | Mar | Apr | VEIV. | unc | ıne | Aug | geb | 500 | AON |) Dec | <u> </u> | |
| t otal Customer Minutes Interrupted without 25 kV Scheduled Work Outages | 1,701,049 | 2,312,159 | 2,171,750 | 2,934,770 | 2,871,167 | 2,744,472 | 1,595,654 | 3,125,319 | 4,240,192 | 2,291,016 | 2,781,176 | 3,683,814 | 32,452,538 | |
| Total Customer Minutes Interrupted with 25 kV | | | | | | | | | | | | | 1 | |
| Scheduled Work Outages | 1,701,049 | 2,312,159 | 2,171,750 | 2,934,770 | 2,871,167 | 2,744,472 | 3,280,423 | 3,125,319 | 4,240,192 | 2,291,016 | 2,781,176 | 3,683,814 | 34,137,307 | |
| Difference | | - | | | | | (1,684,769) | | | | • | | (1,684,769) | |

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, SWITCH NO | TIME OUT | TIME IN | TOTAL | CLASS -TYPE | AREA, DISTRICT OR SUBSTATION AFFECTED | RPT | EXPLANATION |
|--|----------|---------------------|------------|----------------|---|------|---|
| IWILEI 138KV 3 SUB IWILEI 9 25KV CKT CB-7754 BREAKER 7754 | 23:00 | | | D-2 | 821 BETHEL ST V-8196, 821 BETHEL ST V-6645 | 1664 | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE BETWEEN H/C NEAR V10308 PIER 12 AND H/C NEAR V10308 PIER 15 TO REPAIR A DEFECTIVE UNDERGROUND CABLE. IWILEI 13 CKT WAS ABNORMAL DUE TO HOT CAPS ON RO#125230 REQ#2054. E#259743. RELATED TO IR#1671. PTM: DELACRUZ, KEALII; ROSALES, RAY; PITT, ANTHONY; AHMOOK SANG, BRAD; PARK, JAMES; AHMOOK SANG, BRAD; PARK, JAMES; SIGN: OSHIRO, KELLY |
| BREAKER CB-7754 | | 06:02 07/06/2018 | 7 HR 2 MIN | | 821 BETHEL ST V-8196, 821 BETHEL ST V-6645 CUST: 3 | | |
| IWILEI 138KV 4 SUB IWILEI 13 25KV CKT CB-7759 SECTIONALIZER CB7754 | 23:00 | | | D-2 | 1020 MAUNAKEA ST V-7566, 60 NIMITZ N. HWY V-6646, 60 NIMITZ N. HWY V-6646B, 801 NUUANU AVE V-6936, 12 Pier V-10308, 15 Pier V-10309 | 1671 | SECTIONALIZER ABC PHASE #CB7754 WAS OPENED IN IWILEI SUBSTATION DUE TO A SCHEDULED OUTAGE BETWEEN H/C NEAR SW V10309 AND H/C NEAR SW V10309 AND H/C NEAR SW V10309 AND H/C NEAR SW V10308 TO REPAIR A DEFECTIVE UNDERGROUND CABLE. SCHEDULED OUTAGE TO REPAIR FAULTED IWILEI 13 CKT RO#125230 REQ#2054. E#259743 RELATED TO IR#1664 REQ#2076 PTM: AHMOOK SANG, BRAD SIGN: MACEY, JENNIFER |
| BREAKER CB7754 | | 06:02 07/06/2018 | 7 HR 2 MIN | | 1020 MAUNAKEA ST V-7566, 60 NIMITZ N. HWY V-6646B, 801 NUUANU AVE V-6936, 12 Pier V-10308, 15 Pier V-10309 CUST: 326 | | |

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.01

Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Date: July 5, 2018

(Thursday)

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, | H LING LINE | L | TOTAL | CLASS | CLASS | RPT TOTAL SANTEGE |
|---|-------------|---------------------|----------------------------|-------|---|--|
| MILEI 138KV 3 SUB 1WILEI 9 25KV CKT CB-7754 BREAKER 7754 | 22:00 | | | | | CIRCUIT BREA SCHEDULED O REPLACE 25KV RELATED TO E PTM: AHMOOK SIGN: MIYAKE, |
| BREAKER CB7754 | | 04:00 (07/17/2018 | 04:00 6 HR 0 MIN | | FROM CB7754 IWILEI SUBSTATION TO ALL TERMINATIONS CUST: 174 | |
| IWILEI 138KV 4 SUB IWILEI 13 25KV CKT CB-7759 BREAKER 7759 | 22:00 | | | D-1 | KING, MAUNAKEA ST, NUUANU AVE, SECTIONS OF NIMITZ HWY | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON IWILEI 13 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE 25KV CABLE SPLICES E#260399. RELATED TO E#260398 IR#1748 REQ#2149. PTM: DELACRUZ, KEALII; PITT, ANTHONY; WON, BRONSON; KAPOI, KALEI |
| BREAKER CB7759 | | 04:00 07/17/2018 | 04:00 6 HR 0 MIN 7/2018 | | FROM CB7759 IWILEI SUB TO ALL TERMINATIONS CUST: 707 | |

Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.01

Date: July 16, 2018

(Monday)

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| TIME OUT TIME IN TIME THE AREA. DISTRICT OR SUBSTATION AFFECTED NBR | | | | | | | | |
|--|--|-------|---------------------|-------------|-------|--|-----|---|
| 11ME OUT 11ME IN | SUBSTATION CKT | | | | CLASS | | RPT | |
| 22:04 PROM CB7706 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 335 CUST: 335 CUST: 335 CUST: 335 CUST: 336 CUST: 346 CUST | EWALO T3 SUB EWALO 5 5KV CKT CB-7706 REAKER 7706 | 22:04 | | | | | | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 5 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260487 REQ#2169. R#1759 REQ#2170, IR#1760 REQ#2171. PTM: AHMOOK SANG, NATE SIGN: MIYAKE, LANCE |
| 22:04 | REAKER CB7706 | | | 6 HR 35 MIN | | FROM CB7706 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 335 | | |
| 22:04 PEOM CB7707 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 18 CUST: 18 HI CONVENTION CENTER, VICTORIA WARD CTRS 1759 CUST: 48 CU | EWALO T3 SUB EWALO 6 5KV CKT CB-7707 REAKER 7707 | 22:04 | | | | | | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 6 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260501 REQ#2169. RELATED TO IR#1757 REQ#2168, IR#1759 REQ#2170, IR#1760 REQ#2171. PTM: DELACRUZ, KEALII SIGN: MIYAKE, LANCE |
| 22:04 D-1 HI CONVENTION CENTER, VICTORIA WARD CTRS 1759 9 07/18/2018 FROM CB8329 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 83 | REAKER CB7707 | | 04:39 07/18/2018 | 6 HR 35 MIN | | FROM CB7707 KEWALO SUBSTATION TO ALL TERMINATIONS | | |
| 04:39 6 HR 35 MIN 07/18/2018 | AMOKU T2 25KV UB AMOKU 9 5KV CKT CB-8329 REAKER 8329 | 22:04 | | | | | | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KAMOKU 9 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260499 REQ#2170. RELATED TO IR#1757 REQ#2168, IR#1758 REQ#2169, IR#1760 REQ#2171. PTM: MOUNTHONGDY, PAT SIGN: MIYAKE, LANCE |
| | REAKER CB8329 | | | | . = | FROM CB8329 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 83 | | |

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.01

Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Date: July 17, 2018

(Tuesday)

(Tuesday)

Date: July 17, 2018

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, SWITCH NO | TIME OUT TIME IN | TIME IN | TOTAL | CLASS -TYPE | CLASS -TYPE AREA. DISTRICT OR SUBSTATION AFFECTED | RPT NBR EXPLANATION |
|--|------------------|---------------------|-----------------------------|----------------|---|--|
| KAMOKU T2 25KV SUB KAMOKU 10 25KV CKT CB-8330 BREAKER 8330 | 22:04 | | | <u>-</u> | D-1 ALA MOANA SC, SECTIONS OF KEEAUMOKU ST | 1760 CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KAMOKU 10 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260500 REQ#2171. RELATED TO IR#1757 REQ#2168, IR#1758 REQ#2169, IR#1759 REQ#2170. PTM: ROSALES, RAY SIGN: MIYAKE, LANCE |
| BREAKER CB8330 | | 04:44 07/18/2018 | 04:44 6 HR 40 MIN 3/2018 | | FROM CB8330 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 567 | |

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Ran 02/06/2019 14.16.01

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, SWITCH NO | TIME OUT | TIME | TOTAL | CLASS -TYPE | AREA. DISTRICT OR SUBSTATION AFFECTED | RPT NBR EXPLANATION | NO |
|---|----------|---------------------|-------------|----------------|---|--|--|
| KEWALO T3 SUB KEWALO 5 25KV CKT CB-7706 BREAKER 7706 | 22:08 | | | 7 | SECTIONS OF ALA MOANA BLVD, CONVENTION CTR, ALA MOANA S.C. AND LATERALS | 1766 CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 5 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260590 REQ#2179. RELATED TO IR#1767 REQ#2180, IR#1768 REQ#2181, IR#1769 REQ#2182. PTM: AHMOOK SANG, NATE SIGN: MIYAKE, LANCE | ENED DUE TO A EWALO 5 25KV CKT. AL/AL CONNECTOR. #260590 REG#2179. 2180, IR#1768 |
| BREAKER CB7706 | | 03:48 07/19/2018 | 5 HR 40 MIN | | FROM CB7706 KEWALO SUB TO ALL TERMINATIONS CUST: 336 | | |
| KAMOKU T2 25KV SUB KAMOKU 9 25KV CKT CB-8329 BREAKER 8329 | 22:08 | | | D-1 | HI CONVENTION CENTER, VICTORIA WARD CTRS | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KAMOKU 9 25KV CKT TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260589 REQ#2181. RELATED TO IR#1769 REQ#2179, IR#1767 REQ#2180, IR#1769 REQ#2182. PTM: KAPOI, KALEI SIGN: MIYAKE, LANCE | ENED DUE TO A AMOKU 9 25KV CKT AL/AL CONNECTOR. #260589 REQ#2181. 2179, IR#1767 82. |
| BREAKER CB8329 | | 03:48 07/19/2018 | 5 HR 40 MIN | | FROM CB8329 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 83 | | |
| KEWALO T3 SUB KEWALO 6 25KV CKT CB-7707 BREAKER 7707 | 22:09 | | | 7-0 | SECTIONS OF KEEAUMOKU ST, KAPIOLANI BLVD, AND WAIMANU ST | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 6 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260601 REQ#2180. RELATED TO IR#1768 REQ#2179, IR#1768 REQ#2181, IR#1769 REQ#2182. PTM: DELACRUZ, KEALII SIGN: MIYAKE, LANCE | EWED DUE TO A EWALO 6 25KV CKT. AL/AL CONNECTOR. :#260601 REQ#2180. 2179, IR#1768 82. |
| BREAKER CB7707 | | 03:48 | 5 HR 39 MIN | | FROM CB7707 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 18 | | |

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.01

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

(Wednesday) Date: July 18, 2018

(Wednesday)

Date: July 18, 2018

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, SWITCH NO | TIME OUT TIME IN | T NE | TOTAL | CLASS -TYPE | CLASS -TYPE AREA, DISTRICT OR SUBSTATION AFFECTED | RPT NBR | EXPLANATION |
|--|------------------|---------------------|-----------------------------|----------------|---|--|--|
| KAMOKU T2 25KV SUB KAMOKU 10 25KV CKT CB-8330 BREAKER 8330 | 22:09 | | | - | D-1 ALA MOANA SC, SECTIONS OF KEEAUMOKU ST | 1769 SC 170 170 170 170 170 171 171 171 171 171 | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KAMOKU 10 25KV CKT TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260601 REQ#2182. RELATED TO IR#1768 REQ#2179, IR#1767 REQ#2180, IR#1767 PTM: MOUNTHONGDY, PAT SIGN: MIYAKE, LANCE |
| BREAKER CB8330 | | 03:49 07/19/2018 | 03:49 5 HR 40 MIN 9/2018 | | FROM CB8330 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 567 | | |

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Ran 02/06/2019 14.16.01

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

(Thursday)

Date: July 19, 2018

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, SWITCH NO | TIME OUT TIME IN | TIME IN | TOTAL | CLASS -TYPE | CLASS -TYPE AREA, DISTRICT OR SUBSTATION AFFECTED N | RPT NBR EXPLANATION |
|--|------------------|---------|-----------------------------|----------------|--|--|
| KAMOKU T2 25KV SUB KAMOKU 10 25KV CKT CB-8330 BREAKER 8330 | 22:00 | | | <u>-</u> | | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KAMOKU 10 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260678 REQ#2197. RELATED TO IR#1774 REQ#2196. PTM: PITT, ANTHONY SIGN: MIYAKE, LANCE |
| BREAKER CB8330 | | 03:29 (| 03:29 5 HR 29 MIN 0/2018 | | FROM CB8330 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 567 | |
| KEWALO T3 SUB KEWALO 6 25KV CKT CB-7707 BREAKER 7707 | 22:00 | | | D-1 | SECTIONS OF KEEAUMOKU ST, KAPIOLANI BLVD, AND WAIMANU ST | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 6 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#?? REQ#2196. RELATED TO IR#1773 REQ#2197. PTM: ROSALES, RAY SIGN: MIYAKE, LANCE |
| BREAKER CB7707 | | 03:23 (| 03:23 5 HR 23 MIN 0/2018 | | FROM CB7707 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 18 | |

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Ran 02/06/2019 14.16.01

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, | | | TOTAL | CLASS | | RPT | |
|---|------------------|---------------------|-----------------------------|-------|--|--|---|
| SWITCH NO | TIME OUT TIME IN | TIME IN | TIME | -TYPE | AREA, DISTRICT OR SUBSTATION AFFECTED | NBR EXP | EXPLANATION |
| KEWALO T3 SUB KEWALO 5 25KV CKT CB-7706 BREAKER 7706 | 22:03 | | | D-1 | SECTIONS OF ALA MOANA BLVD, CONVENTION CTR, ALA MOANA S.C. AND LATERALS | CIRCUIT BREAKER WAS OPENEI SCHEDULED OUTAGE BETWEEN SUBSTATION TO ALL TERMINATI REPLACE A DEFECTIVE AL/AL CONTREPLACED 25KV SPLICES E#280 RELATED TO IR#1806 REQ#2206. PTM: PITT, ANTHONY: AHMOOK SIGN: MOUNTHONGDY, PAT; CHING, THE SIGN: MANZOKU, KEITH | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE BETWEEN KEWALO SUBSTATION TO ALL TERMINATIONS TO REPLACE A DEFECTIVE AL/AL CONNECTOR. UG REPLACED 25KV SPLICES E#260897 REQ#2205. RELATED TO IR#1806 REQ#2206. PTM: PITT, ANTHONY; AHMOOK SANG, NATE; MOUNTHONGDY, PAT; CHING, THOMAS SIGN. MANZOKU, KEITH |
| BREAKER CB7706 | | 04:02 07/24/2018 | 04:02 5 HR 59 MIN 4/2018 | | FROM CB7706 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 335 | | |
| KAMOKU T2 25KV SUB KAMOKU 9 25KV CKT CB-8329 BREAKER 8329 | 22:03 | | | D-1 | HI CONVENTION CENTER, VICTORIA WARD CTRS | CIRCUIT BREAKER WAS OPENEI SCHEDULED OUTAGE BETWEEN SUBSTATION TO ALL TERMINATI REPLACE A DEFECTIVE AL/AL CORPLACE OF SKN SPLICES E#280 RELATED TO IR#1805 REQ#2205. PTM: PITT, ANTHONY; AHMOOK MOUNTHONGDY, PAT; CHING, TH SIGN: MANZOKU, KEITH | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE BETWEEN KAMOKU SUBSTATION TO ALL TERMINATIONS TO REPLACE A DEFECTIVE AL/AL CONNECTOR. UG REPLACED 25KV SPLICES E#260897 REQ#2206. RELATED TO IR#1805 REQ#2205. PTM: PITT, ANTHONY; AHMOOK SANG, NATE; MOUNTHONGDY, PAT; CHING, THOMAS SIGN: MANZOKU, KEITH |
| BREAKER CB-8329 | | 04:02 07/24/2018 | 5 HR 59 MIN | | FROM CB8329 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 83 | | |

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.02

Date: July 23, 2018

(Monday)

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, | | | TOTAL | CLASS | _ | RPT |
|---|----------|---------------------|-------------|-------|---|--|
| SWITCH NO | TIME OUT | TIME IN | TIME | -TYPE | AREA. DISTRICT OR SUBSTATION AFFECTED 1 | NBR EXPLANATION |
| KAMOKU T2 25KV SUB KAMOKU 9 25KV CKT CB-8329 BREAKER 8329 | 22:04 | | | D-1 | HI CONVENTION CENTER, VICTORIA WARD CTRS | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE BETWEEN KAMOKU SUBSTATION TO ALL TERMINATIONS. UG REPLACED SPLICES REQ#2208 E#261016. RELATED TO IR#1821 REQ#2207. PTM: MAKAIAU, DAROL; KATADA, RANDY; RABE, JENSEN; KAPOI, KALEI; OKAGAWA, JON; MOUNTHONGDY, PAT; CHING, THOMAS SIGN: MANZOKU, KEITH |
| BREAKER CB-8329 | | 03:34 (| 5 HR 30 MIN | | FROM CB8329 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 83 | |
| KEWALO T3 SUB KEWALO 5 25KV CKT CB-7706 BREAKER 7706 | 22:05 | | | D-1 | SECTIONS OF ALA MOANA BLVD, CONVENTION CTR, ALA MOANA S.C. AND LATERALS | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE BETWEEN KEWALO SUBSTATION TO ALL TERMINATIONS. UG REPLACED SPLICES ON REQ#2207 E#261016. RELATED TO IR#1822 REQ#2208. PTM: MAKAIAU, DAROL; KATADA, RANDY; RABE, JENSEN; OKAGAWA, JON; MOUNTHONGDY, PAT; SIGN: MANZOKU, KEITH |
| BREAKER CB-7706 | | 03:37 07/25/2018 | 5 HR 32 MIN | | FROM CB7706 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 335 | |

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.02

Date: July 24, 2018

Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

(Tuesday)

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, | | | | CLASS | | RPT | | |
|---|------------------|---------|-------------------------|-------|--|------|---|--|
| SWITCH NO | TIME OUT TIME IN | TIME IN | TIME | -TYPE | -TYPE AREA, DISTRICT OR SUBSTATION AFFECTED | NBR | EXPLANATION | |
| KEWALO T3 SUB KEWALO 7 25KV CKT CB-7708 BREAKER 7708 | 22:01 | | | D-1 | FROM CB7708 KEWALO SUBSTATION TO ALL TERMINATIONS | 1830 | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 7 25KV CKT TO REPLACE A DEFECTIVE AL/AL CONNECTOR. UG REPLACED SPLICES E#261078 PTM: KAPOI, KALEI; YAMANE, ROSS SIGN: MANZOKU, KEITH | |
| SWITCH SW V10397 | | 04:10 | 04:10 6 HR 9 MIN 6/2018 | | FROM CB7708 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 20 | | | |

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Date: July 25, 2018

(Wednesday)

Ran 02/06/2019 14.16.02

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

HAWAIIAN ELECTRIC COMPANY, INC. Call Center Performance (Service Level) Results 2018

Call Center Performance (Service Level) Excludes Blocked Calls

| Month | Total Calls Accepted * | Calls Answered Within 30 Seconds | Service Level | Weighted Total | Weighted Service Level |
|--------|---------------------------|---|---------------|-------------------|---------------------------|
| Jan-18 | 27,380 | 24,550 | 89.66% | 8.37% | 7.51% |
| Feb-18 | 22,944 | 20,577 | 89.68% | 7.02% | 6.29% |
| Mar-18 | 23,827 | 21,393 | 89.79% | 7.29% | 6.54% |
| Apr-18 | 26,277 | 23,095 | 87.89% | 8.04% | 7.06% |
| May-18 | 27,042 | 24,152 | 89.31% | 8.27% | 7.39% |
| Jun-18 | 27,941 | 22,446 | 80.33% | 8.55% | 6.86% |
| Jul-18 | 30,579 | 23,648 | 77.33% | 9.35% | 7.23% |
| Aug-18 | 31,082 | 23,749 | 76.41% | 9.51% | 7.26% |
| Sep-18 | 27,644 | 22,345 | 80.83% | 8.45% | 6.83% |
| Oct-18 | 30,957 | 25,586 | 82.65% | 9.47% | 7.82% |
| Nov-18 | 26,496 | 21,556 | 81.36% | 8.10% | 6.59% |
| Dec-18 | 24,817 | 21,460 | 86.47% | 7.59% | 6.56% |

Total 83.97%

To HECO-WP-M-001

Source: Generated from Genesys Interactive Insights system.

^{*} All customer calls handled by a Customer Service Representative (including abandoned calls)

HAWAIIAN ELECTRIC COMPANY, INC. Phase 1 Renewable Energy RFP Performance Incentive Mechanism 2018

| Line | Awarded Projects | Reference | BAFO Levelized Price (\$/MWh) | Net Energy Potential (MWh) | | PIM Calculation | (2 | Calculation 20% utility share) |
|------|---|---------------------------------------|-------------------------------------|----------------------------------|-----|--------------------|----|--------------------------------------|
| | | | a | b | c = | (x or y-a)*b | d | = c * 20% |
| 1 | Ho'ohana Solar 1 (O-2) (with battery storage) | Docket No. 2018-0431 D&O No. 36236 | 99.78 Note 3 | 114,481 | \$ | 1,742,401 | \$ | 348,480 |
| 2 | Mililani Solar I (O-17) (with battery storage) | Docket No. 2018-0434 D&O No. 36232 | 88.16 | 93,121 | \$ | 2,499,368 | \$ | 499,874 |
| 3 | Waiawa Solar (O-20) (with battery storage) | Docket No. 2018-0435 D&O No. 36231 | 95.93 | 87,927 | \$ | 1,676,768 | \$ | 335,354 |
| 4 | | Total Fina | l Variable Request | s for Proposals | \$ | 5,918,536 | \$ | 1,183,707 |
| 5 | | | 5 | 50% Year 1 | | Note 2 | \$ | 591,854 To Sch M |

| | Note I | | |
|---------------------|--------|--------|---|
| PIM Benchmark | ¢/kWh | \$/MWh | |
| Energy Only | 9.5 | 95.00 | X |
| Paired with Storage | 11.5 | 115.00 | y |

Note 1 Per Order No. 35405, Docket No. 2017-0352, filed April 6, 2018, PIM benchmarks per pages 11 and 12.

Language from Order 35405:

The Companies share would be 20% of the estimated first-year savings compared to the applicable benchmark up to a cap of \$3,500,000.

The estimated first-year savings will be calculated by multiplying the forecasted first-year energy production (in kWh) of the project by the difference between the applicable benchmark price and the equivalent price (in cents per kWh).

The equivalent PPA price will be established by the levelized cost of the project computed by the Companies during the evaluation and selection process in the Phase I procurement effort.

Similarly, the forecasted first-year energy production will be determined by using the energy production estimated in the evaluation and selection process.

Per Order No. 35664, Docket No. 2017-0352, filed September 6, 2018:

The Commission ruled on the treatement of the Additional PPAs proposed in the Companies' June 20, 2018 Letter indicating that the additional PIM for these PPAs will function in a similar manner to the original PIM. The Companies shall receive a performance incentive equialent to 20% of the estimated first-year savings compared to the applicable benchmark, up to a cap of \$3,000,000, for the Additional PPAs filed with the commission by December 31, 2018. For any Additional PPAs submitted after December 31, 2018, until March 31, 2019, the Companies' share of the savings pursuant to the PIM will be reduced in accordance with the proposal in the Companies' June 20, 2018 Letter.

Note 2 Per Decision and Order No. 35405, Docket No. 2017-0352, filed April 6, 2018, Timing of Incentive Award, p 14

First Allocation:

The first allocation of the PIM will be shortly after the approval of the PPAs. At that time, the commission will allocate the first 50% of the total PIM to the Companies, based on the equivalent PPA prices and the forecasted first-year energy production.

The commission intends that the applicable performance incentive would be awarded to the Companies through their respective Revenue Balancing Account Provision tariffs.

Second Allocation:

Following the first year of commercial operations for each project, the Companies shall submit a report of the actual energy utilized for each of the PPAs approved by the Commission. The Commission will provide the Companies with a portion, or all, of the remaining 50% of the PIM, dependent upon the actual amount of energy output utilized.

CIAC Treatment
Resulting from FERC Adoption

Adoption of FERC USOA required a change in presentation change to Contributions in Aid of Construction (CIAC)

Prior to October 2018, and in establishing rates in previous test year rate cases, the Company's presentation of contributions in aid of construction ("CIAC") followed the guidelines of the National Associate of Regulatory Utility Commissioners Uniform System of Accounts (NARUC USOA). Under the NARUC reporting system, CIAC is reported under an exclusive account, account 271, which includes donations or contributions in cash, services or property from states, municipalities, or other governmental agencies, individuals and others for construction purposes. All CIAC was incorporated as a deduction in the calculation of rate base in part because the Companies' systems did not facilitate on-going reporting of CIAC related to plant in service separate from CIAC related to construction work in progress ("CWIP").

The Commission approved the Companies' request to change to Federal Energy Regulatory Commission Uniform System of Accounts (FERC USOA), beginning with the implementation of the Companies' new ERP/EAM, in Decision and Order No. 31757, issued December 19, 2013 in Docket No. 2013-0007.

Beginning in October 2018 with the transition to FERC, the net balance of CIAC in account 271 less the CIAC amortization to be recorded for October to December 2018, was credited against the account balances charged with the cost of construction, i.e., gross plant in service and CWIP, resulting in the account becoming zero (i.e. "0") at December 31, 2018.

Ratemaking treatment for CIAC

The Company's ratemaking treatment of contributions in aid of construction is summarized below:

- CIAC associated with Plant in Service When a utility capital project is placed into service, the plant in service net of the associated CIAC is included as net cost of plant in service in rate base. The plant in service net of the CIAC is included as part of the basis for the depreciation accrual the year after it is placed into service (i.e. January 1 of the year after it is placed into service).
- CIAC associated with CWIP For book purposes, CIAC that is received while projects
 are still under construction (i.e. in CWIP) will offset the costs incurred and is presented
 net in CWIP. The CWIP net of the associated CIAC is subject to the AFUDC accrual if
 there is a net CWIP balance. In the next rate case, the Company will request CIAC
 associated with CWIP be excluded from the rate base calculation since CWIP net of

CIAC earns AFUDC. CIAC associated with CWIP is however, included in rate base in this RAM calculation for consistency with the 2017 Test Year treatment. See further discussion of Company's requested treatment of CIAC associated with CWIP below.

Developer Advances - Cash contributions received in advance of construction of a utility capital project that are temporarily not classified as CIAC because the funds received are in excess of the specific project expenditures. The balance of developer advances is presented as funds from non-investors, included in its own exclusive account, and deducted in the calculation of rate base. As project costs are incurred for a utility capital project, an equal portion of developer advances associated with the project will be reclassified as CIAC and credit the accounts charged with the cost of construction. Developer Advances were included as a part of CIAC as a reduction to rate base in the 2017 Test Year.

Treatment of CIAC within the 2019 Annual Decoupling Filing

For the 2019 Decoupling Filing, the Company treated CIAC consistently with prior filings resulting in no impact to rate base.

Schedule D1, Determination of Rate Base RAM Adjustment – Change in Rate Base

Plant in Service - There is no change in rate base for plant in service and CIAC associated with plant in service. Under NARUC, in rate base, plant in service was the gross cost of plant (net of accumulated depreciation), and CIAC was a separate reduction to rate base. Under FERC, the plant in service amounts are net of (i.e., already reduced by) CIAC, and presented net of accumulated depreciation in the calculation of rate base. There is no separate CIAC line item reducing rate base because it is already net in utility plant. Therefore, there is no net rate base impact. The difference between NARUC and FERC for plant in service is a matter of where the costs are classified in rate base, and not a matter of inclusion or exclusion of costs in rate base.

CIAC associated with CWIP - There is no change in rate base for CIAC associated with CWIP. Previously, presentation of CIAC aligned with NARUC and all CIAC, including amounts associated with projects in CWIP, were included as a reduction to rate base under account 271. The 2019 estimated balance continues the treatment of including the CIAC in CWIP to be consistent with the recorded balance at 2018 year-end because all 2019 estimated CIAC additions have been included at Schedule D2 and included as part of net cost of plant at Schedule D1. Although the treatment described above was used in the 2019 annual decoupling filing, see Company's requested treatment to exclude CIAC associated with CWIP from rate base in future filings in the discussion below.

Developer Advances - With the transition to FERC, CIAC is credited when received against the related project costs in CWIP. To the extent funds are not yet expended for a project in

CWIP, the CIAC will be classified as developer advances and deducted in the calculation of rate base at Schedule D1. The recorded balance at 2018 year-end is not adjusted for 2019 activity as it is incorporated in Schedule D2.

Schedule D2, Determination of Baseline Capital Projects Additions

Schedule D2 was revised to incorporate the baseline and major project CIAC (including Developer Advances) for 2014 to 2017 into the baseline average calculation of net plant in service, consistent with the presentation of rate base. The 2018 CIAC additions calculated at HECO-WP-D2-003 includes additions to CIAC from all sources, i.e. Plant, CWIP and Developer Advances, which were used in the 5-year baseline calculation. As a result, the estimated 2019 additions to CIAC in CWIP and Developer Advances balances at Schedule D1 for the Change in Rate Base are not required as they are already included in the net cost of plant line item.

Schedule E, Determination of Depreciation & Amortization RAM Adjustment

FERC Uniform System of Accounts Electric Plant Instructions, 2. Electric Plant To Be Recorded at Cost. D. states, "The electric plant accounts shall not include the cost or other value of electric plant contributed to the company." Therefore, the Recorded Depreciable/ Amortizable Balances at December 31, 2018 in Schedule E represents plant in service net of CIAC which is used as the basis to estimate the 2019 annual accrual amount. In calculating the 2019 RAM Depreciation and Amortization, Depreciation and Amortization in Current Revenues also includes CIAC amortization approved in the 2017 Test Year.

Schedule F & F1, Determination of Change in Deferred Income Taxes & Tax Depreciation

The methodology for computing the deferred taxes related to RAM year tax depreciation was not changed within the 2019 annual decoupling filing. Gross plant additions are used as the basis for calculating tax depreciation. However, see the CIAC impact to ADIT section below for the Company's preferred treatment considering the effects of netting CIAC against plant in service.

Schedule G-series, CIAC

Schedule G, G1 and G2 were removed from the Decoupling filings and instead incorporated into either Plant in Service, CIAC in CWIP or Developer Advances. The December 31, 2018 balances for CIAC associated with CWIP and Developer Advances were extracted from PowerPlan. Additionally, as noted above, the calculation of the 5-year baseline average of CIAC and amortization was incorporated within Schedule D2 and Schedule E, respectively.

The Company will continue to include CIAC associated with CWIP and Developer Advances as a reduction to rate base until the FERC presentation of rate base is approved in the Company's next rate case.

Company's requested CIAC treatment

The Company requests to reflect the following changes to the treatment of CIAC within the annual decoupling filings.

CIAC associated with CWIP

In Mr. Franklin's T-12 direct testimony in Hawaii Electric Light's 2019 Test Year rate case, the Company proposes to remove CIAC associated with CWIP from the calculation of rate base due to the fact that CWIP net of associated CIAC earns AFUDC, therefore the CWIP and its associated CIAC should be excluded from rate base.

Excluding CWIP net of CIAC, to better align the source of funds with its use (i.e. the CIAC funds received were applied against the costs incurred for the project) and is therefore properly excluded from the calculation of rate base. In addition, and as mentioned previously, any material CIAC received in advance of construction expenditures will continue to be deductions in the calculation of rate base as Developer Advances.

CIAC impact to ADIT

ADIT associated with CIAC in CWIP should be divided between nontaxable and taxable CIAC. Nontaxable CIAC (primarily interconnection CIAC) is treated as a reduction in basis for both book and tax purposes. On the other hand, although taxable CIAC is also a reduction in basis for book purposes, for tax purposes, the receipt of taxable CIAC creates tax basis by way of the recognition of taxable income and reverses by way of tax depreciation.

Nontaxable CIAC does not create ADIT since there is no book tax difference. Consequently, the regulatory netting of nontaxable CIAC against the plant assets should not create any issue with respect to the ADIT beginning balance for the rate base RAM calculation

Taxable CIAC generates a Deferred Tax Asset (DTA) as it is received and recorded into CWIP under the new FERC accounting. Prior NARUC accounting treatment with account 271 created DTA as CIAC was booked to 271, which is equivalent to what is now booked to CWIP. The origination and timing of the DTA under the FERC method will be equivalent to the NARUC method. However, under the old method, the DTA was immediately recognized as part of rate base, consistent with the treatment of the account 271 inclusion. However, under the FERC method, the generation of the DTA must be inventoried and tracked to match up with the amount of CIAC in CWIP and the amounts closed to plant in service. This tracking is necessary to ensure that the amount of DTA related to CWIP is excluded from rate base. Once CWIP costs are closed to plant, the related DTA will be included in rate base and will begin reversal through tax depreciation taken on the CIAC tax basis.

FERC accounting imbeds the book treatment of CIAC within CWIP and the ultimate plant and related depreciation. The separation will disappear and the Company asserts that the ADIT

effects will be the same with respect to the beginning balance of ADIT for the annual decoupling filing except to the extent CIAC is still in CWIP. This issue will be addressed along with the rate base treatment of CIAC associated with CWIP as mentioned above.

FERC accounting nets CIAC against Plant in Service for purposes of computing baseline and major plant additions. For RAM year tax depreciation and the related ADIT calculated for the change in RAM year ADIT, adopting the net plant additions as the RAM year tax additions will be a change that will result in a smaller amount of tax depreciation and ADIT "change" since the Company previously has assumed the gross additions to be the RAM year tax depreciable base. The Company asserts this is reasonable for the following reasons:

- 1) Under the old method, to the extent nontaxable CIAC was included in the RAM year numbers (through major projects or baseline projects), tax depreciable basis was overstated since there is no tax basis for assets funded by nontaxable CIAC.
- 2) With respect to taxable CIAC, the funded assets do have depreciable tax basis and it is accounted for in the RAM year additions tax depreciation. However, the receipt of taxable CIAC generates taxable income and deferred tax assets that increase rate base. The effect of this DTA from taxable CIAC was never recognized in the RAM tariff, which resulted in an overstatement of RAM year ADIT change, as it related to the projected plant additions.

For purposes of the 2019 RAM calculation, ADIT has been calculated on gross plant additions, consistent with the 2017 Test Year treatment and prior decoupling filings, however the Company is requesting treatment of CIAC in deferred tax to follow FERC accounting.

Summary

In summary, Hawaiian Electric prepared the 2019 annual decoupling filings in accordance with the historical treatment of CIAC. Historically, due to system constraints, CIAC records were not maintained with matching of the separate components (plant in service, CWIP, developer advances). As a result, the entire amount of CIAC was treated as a reduction to rate base and the Return on Investment was understated. As stated in Mr. Franklin's T-12 direct testimony in Hawaii Electric Light's 2019 Test Year rate case, the Companies propose to exclude the CIAC associated with CWIP in its calculation of rate base in the rate base RAM filings. Should the Commission approve Hawaii Electric Light's proposal, Hawaiian Electric will implement this change in the annual decoupling filing in the year following the Commission's approval.

HAWAIIAN ELECTRIC SCENARIO 3 WEST LOCH PV INCLUDED IN RAM REVENUE ADJUSTMENT 25kV INCLUDED IN 2018 SAIDI AND SAIFI PIM CALCULATIONS

HAWAIIAN ELECTRIC ATTACHMENT 1

RATE SCHEDULES (continued)

| Sheet | Schedule | Date Effective | Character of Service |
|-------|----------|-------------------|--|
| 92 | "RBA" | September 1, 2018 | Revenue Balancing Account Provision |
| 92A | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 92A.1 | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 92B | "RBA" | February 16, 2018 | Revenue Balancing Account Provision |
| 92C | "RBA" | January 1, 2018 | Revenue Balancing Account Provision |
| 92D | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 92E | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 92F | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 93 | "RAM" | June 1, 2013 | Rate Adjustment Mechanism Provision |
| 93A | "RAM" | June 1, 2013 | Rate Adjustment Mechanism Provision |
| 93B | "RAM" | June 8, 2015 | Rate Adjustment Mechanism Provision |
| 93C | "RAM" | June 8, 2015 | Rate Adjustment Mechanism Provision |
| 93D | "RAM" | June 1, 2017 | Rate Adjustment Mechanism Provision |
| 93E | "RAM" | June 8, 2015 | Rate Adjustment Mechanism Provision |
| 93F | "RAM" | June 1, 2013 | Rate Adjustment Mechanism Provision |
| 93G | "RAM" | June 1, 2018 | Rate Adjustment Mechanism Provision |
| 93Н | "RAM" | June 1, 2018 | Rate Adjustment Mechanism Provision |
| 931 | "RAM" | June 1, 2018 | Rate Adjustment Mechanism Provision |
| 94 | "PPAC" | May 1, 2019 | Purchased Power Adjustment Clause |
| 94A | "PPAC" | May 1, 2019 | Purchased Power Adjustment Clause |
| 94B | "PPAC" | May 1, 2019 | Purchased Power Adjustment Clause |

HAWAIIAN ELECTRIC COMPANY, INC.

RATE SCHEDULES (continued)

| Sheet | Schedule | Date Effective | Character of Service |
|-------|----------|-------------------|--|
| 95 | EV-F | January 1, 2019 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 95A | EV-F | January 1, 2019 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 95B | EV-F | December 12, 2017 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 96 | EV-U | December 12, 2017 | Commercial Public Electric Vehicle Charging Service Pilot |
| 96A | EV-U | December 12, 2017 | Commercial Public Electric Vehicle Charging Service Pilot |
| 97 | TOU-RI | October 18, 2018 | Residential Interim Time- of-Use Service |
| 97A | TOU-RI | January 1, 2019 | Residential Interim Time- of-Use Service |
| 97B | TOU-RI | October 18, 2018 | Residential Interim Time- of-Use Service |
| 97C | TOU-RI | January 1, 2019 | Residential Interim Time- of-Use Service |
| 98 | "PIM" | January 1, 2018 | Performance Incentive Mechanism Provision |
| 98A | "PIM" | January 1, 2018 | Performance Incentive Mechanism Provision |
| 98B | "PIM" | September 1, 2018 | Performance Incentive Mechanism Provision |
| 98C | "PIM" | September 1, 2018 | Performance Incentive Mechanism Provision |
| 98D | "PIM" | June 1, 2019 | Performance Incentive Mechanism Provision |
| 98E | "PIM" | September 1, 2018 | Performance Incentive |
| 99 | TOU-P | January 1, 2019 | Mechanism Provision Large Commercial Time-Of- |
| 99A | TOU-P | January 1, 2019 | Use Service Large Commercial Time-Of- |
| 99B | TOU-P | January 1, 2019 | Use Service Large Commercial Time-Of- |
| 99C | TOU-P | January 1, 2019 | Use Service Large Commercial Time-Of- Use Service |

HAWAIIAN ELECTRIC COMPANY, INC.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

Supplement To:

| Schedule | R - | Residential Service |
|----------|---------|---|
| Schedule | G – | General Service - Non-Demand |
| Schedule | J – | General Service - Demand |
| Schedule | DS - | Large Power Directly Served Service |
| Schedule | Р – | Large Power Service |
| Schedule | F - | Public Street Lighting, Highway |
| | | Lighting and Park and Playground |
| | | Floodlighting |
| Schedule | U – | Time-of-Use Service |
| Schedule | TOU-R - | Residential Time-of-Use Service |
| Schedule | TOU-G - | Small Commercial Time-of-Use Service |
| Schedule | TOU-J - | Commercial Time-of-Use Service |
| Schedule | TOU-P - | Large Commercial Time-of-Use Service |
| Schedule | SS - | Standby Service |
| Schedule | TOU EV- | Residential Time-of-Use Service with |
| | | Electric Vehicle Pilot |
| Schedule | EV-F - | Commercial Public Electric Vehicle |
| | | Charging Facility Service Pilot |
| Schedule | TOU-RI- | Residential Interim Time-of-Use Service |

All terms and provisions of the above listed rate schedules applicable except that the total base rate charges for each billing period shall be adjusted by the Revenue Balancing Account Rate Adjustments shown below:

A: PURPOSE:

The purpose of the Revenue Balancing Account ("RBA") is to record: 1) the difference between the Hawaiian Electric Company's target revenue and recorded adjusted revenue, and 2) monthly interest applied to the simple average of the beginning and ending month balances in the RBA. In addition, the recovery provision of this tariff provides for collection or return of the calendar year-end balance in the RBA and recovery or refund of the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits provided in the Rate Adjustment Mechanism ("RAM") Provision, and any revenue adjustment provided in accordance with the Performance Incentive Mechanism Provision, over the subsequent June $1^{\rm st}$ through May 31st period. Tracking of target revenue and recorded adjusted revenue commenced on the effective date of the tariff that implemented the Final Decision and Order in Hawaiian Electric's 2009 test year rate case, Docket No. 2008-0083, consistent with the Final Decision and Order in the Decoupling case, Docket No. 2008-0274.

HAWAIIAN ELECTRIC COMPANY, INC.

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018.

Transmittal Letter Dated July 23, 2018

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

B: TARGET REVENUE:

For the purpose of the RBA, the target revenue is the annual electric revenue approved by the Public Utilities Commission in the last issued Decision & Order in the Company's most recent test year general rate case, excluding revenue for fuel and purchased power expenses that are recovered either in base rates or in a purchased power adjustment clause; excluding revenue being separately tracked or recovered through any other surcharge or rate tracking mechanism; and excluding amounts for applicable revenue taxes;

Plus: Any effective RAM Revenue Adjustment calculated under the RAM provision for years subsequent to the most recent rate case test year for which the Commission has issued a Decision & Order; and any Performance Incentive Adjustment provided for in accordance with the Performance Incentive Mechanism Provision; and

Less: Any applicable Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits calculated under the RAM provision.

Adjusted by: Other adjustments, as applicable, in accordance with Commission's Order authorizing such adjustment. Other adjustments, if any, are shown in the table *Target Revenue Currently in Effect*, provided in section H.

The target revenue shall be revised to correct for any errors in the calculation of the RAM Revenue Adjustment, Performance Incentive Adjustment, recorded adjusted revenues or other RBA accounting determinations (collectively "target revenue determinations") for any previous period and for revisions to RAM Revenue Adjustments or Performance Incentive Adjustments as a result of subsequent Commission orders that change the basis of previously calculated RAM Revenue Adjustments and/or Performance Incentive Adjustments. corrections of errors in previously calculated target revenue determinations, the target revenue shall be adjusted as of the date that the correct determinations would have been reflected in target revenue. For changes in the RAM Revenue Adjustment and/or Performance Incentive Adjustments as a result of subsequently issued Commission orders, the target revenue shall be adjusted as of the effective date of changes that are implemented pursuant to the subsequently issued Commission order.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 28, 2019.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

The Commission and the Consumer Advocate will be notified of the target revenue revisions or corrections prior to implementation by the Company. There is no presumption that the target revenue changes are ultimately warranted or correct. In the annual RBA review transmittal ("RBA Review Transmittal") filed on or before March 31 of each year, the utility will have the burden to demonstrate that the interim changes for the previous calendar year are warranted and correctly applied. The Consumer Advocate will provide comments regarding the changes with its Statement of Position. The RBA balance and RBA Rate Adjustment for the following year will reflect any appropriate modifications to the change made by the utility in the prior year if necessary.

HAWAIIAN ELECTRIC COMPANY, INC.

REVISED SHEET NO. 92B Effective February 16, 2018

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

Monthly Allocation Factors for the Target Revenue are as follows:

| January | 8.19% |
|-----------|---------------------|
| February | 7.59% |
| March | 8.10% |
| April | 7.98% |
| May | 8.40% |
| June | 8.07% |
| July | 8.70% |
| August | 8.94% |
| September | 8.65% |
| October | 8.84% |
| November | 8.26% |
| December | <u>8.28</u> % |
| Total | $10\overline{0.00}$ |
| | |

These factors are based on the mWh sales forecast that is approved by the Commission in Hawaiian Electric's 2017 test year rate case and shall be updated in any subsequent test year rate case.

C: BALANCING ACCOUNT ENTRIES:

Entries to the RBA will be recorded monthly. A debit entry to the RBA will be made equal to the target revenue as defined in Section B. above, times the appropriate monthly allocation factor in the table above. A credit entry to the RBA will be made equal to the recorded adjusted revenue. The recorded adjusted revenue is defined to include the electric sales revenue from authorized base rates, plus revenue from any authorized interim rate increase, plus revenue from any RBA rate adjustment, but excluding revenue for fuel and purchased power expenses, IRP/DSM, any Commission Ordered one-time rate refunds or credits or other surcharges, and adjusted to remove amounts for applicable revenue taxes.

Interest will be recorded monthly to the RBA by multiplying the simple average of the beginning and ending month balance in the RBA times the Interest Rate divided by 12. The Interest Rate shall be the short term debt rate as established in deriving the consolidated cost of capital in the Company's last full rate case. The Interest Rate prior to March 1, 2014 shall be 6 percent.

D: RECOVERY OF BALANCING ACCOUNT AMOUNTS:

In its annual RBA Review Transmittal, the Company will file with the Commission a statement of the previous calendar year-end balance in the RBA and the RAM Revenue Adjustment for the current calendar year, along with supporting calculations.

HAWAIIAN ELECTRIC COMPANY, INC.

Docket No. 2016-0328; Order No. 35280, issued February 9, 2018. Transmittal Letter Dated February 12, 2018.

REVISED SHEET NO. 92C Effective January 1, 2018

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

Both an amortization of the previous calendar year-end balance in the RBA, adjusted for any Earnings Sharing Revenue Credits or Major Capital Projects Credits, Baseline Capital Projects Credits or corrections, any Performance Incentive Adjustment provided in accordance with the Performance Incentive Mechanism Provision and the RAM Revenue Adjustment will be recovered through a per-kWh RBA rate adjustment, over the 12 months from June 1 of the current calendar year to May 31 of the succeeding calendar year. The recovery through the RBA Rate Adjustment of a RAM Revenue Adjustment calculated for a calendar year that is also a rate case test year shall terminate on the effective date of tariff rates that implement a Commission approved base revenue level authorized in the Company's test year rate case.

Revisions to Target Revenue based on corrections for errors and subsequently issued Commission orders, described in Section B above, will not be reflected in the RBA Rate Adjustment until a succeeding June 1 to May 31 period, unless otherwise ordered or approved by the Commission.

On or before March 31 of each year, the Company shall file with the Commission, the Consumer Advocate, and each party to the Company's most recent rate case proceeding, an RBA Review Transmittal supporting the implementation of the RBA Provision, including RBA reconciliation, implementation of applicable components of the RAM Provision and Performance Incentive Mechanism Provision, determination and adjustments of target revenues, determination of the RBA Rate Adjustment; and documenting any errors, corrections and adjustments to Target Revenues in the preceding calendar year and prior to the transmittal date.

Complete, indexed workpapers and electronic files supporting the previous year-end balance in the RBA and target revenue determinations shall be provided to the Commission, the Consumer Advocate and all other parties to the Utility's most recent rate case proceeding ("Other Rate Case Parties"), if any, as part of the annual RBA Review Transmittal filing. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, Other Rate Case Parties, and other interested persons that may propose any adjustments necessary to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

REVISED SHEET NO. 92D Effective June 1, 2019

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

As described in Sections 6-61-61 and 6-61-111 of the Hawaii Administrative Rules, Title 6, Chapter 61, based upon the Company's filed schedules and in the absence of any protests submitted by the Consumer Advocate, Other Rate Case Parties, or other interested persons, not later than 15 days before June 1st, the RBA Rate Adjustment shall go into effect on June 1st, and the Commission shall confirm the commencement of the RBA Rate Adjustment in its monthly Tariff Order.

E: REVENUE BALANCING ACCOUNT RATE ADJUSTMENT:

The RBA Rate Adjustment is comprised of the calculated values from Section D above, adjusted to include amounts for applicable revenue taxes, and calculated based on the Company's forecast of mWh sales over the RBA Rate Adjustment recovery period.

The RBA Rate Adjustment shall remain unchanged during the recovery period unless further modification is required by order or approval of the Commission, except as specifically provided above.

RBA Rate Adjustment

All Rate Schedules 0.9775 ¢/kWh

F. NOTICE

Notice of the annual Revenue Balancing Account Rate Adjustment filing shall be provided to all affected customers of the Utility in accordance with the provisions of this section by publication in newspapers of general circulation within 14 days and by including notification with its billing statements within 60 days after the Company makes its annual RBA Review Transmittal filing pursuant to this tariff. The notice to customers shall include the following information:

- a) A description of the proposed revision of revenues, Earnings Sharing Credits, and Major or Baseline Capital Projects Credits;
- b) The effect on the rates applicable to each customer class and on the typical bill for residential customers; and
- c) The Company's address, telephone number and website where information concerning the proposed Revenue Balancing Account Rate Adjustment may be obtained.

G: COMMISSION'S AUTHORITY

The Commission may modify or suspend any or all parts of this Revenue Balancing Account Provision. Such suspension shall remain in place until removed by Commission Order.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter Dated May 28, 2019.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

H: TARGET REVENUE CURRENTLY IN EFFECT

Hawaiian Electric Company, Inc. Annual Target Revenue (\$000s)

| | <u>Description</u> | <u>Amount</u> |
|------------------|---|--|
| 1 2 3 | Electric Sales Revenue (Unadjusted) Tax Act Implementation Lag Electric Sales Revenue (Adjusted) | \$1,531,852 (\$2,143) \$1,529,709 |
| 4 5 6 7 | Less: Fuel Expense Purchase Power Expense Revenue Tax on Electric Sales Revenue Last Rate Order Target Revenues | (\$327,609) (\$466,211) (\$135,915) \$599,974 |
| 8 9 10 | Authorized RAM Revenues Revenue Tax Net RAM Adjustment | \$22,938 (\$2,038) \$20,900 |
| 11 12 13 | Authorized MPIR Revenues Revenue Tax Net MPIR Adjustment | \$19,811 (\$1,760) \$18,051 |
| 14 15 16 | Earnings Sharing Revenue Credits Revenue Tax Net Earnings Sharing Revenue Credits | \$0 \$0 \$0 |
| 17 18 19 | Performance Incentive Mechansim (PIM) Revenue Tax Net PIM Reward (Penalty) | (\$1,269) \$113 (\$1,157) |
| 20 21 22 | 2017 Test Year Final D&O Refund Revenue Tax Net 2017 Test Year Final D&O Refund | (\$48) \$4 (\$44) |
| 23 24 25 | On-Bill Financing Pgm Implementation Costs Revenue Tax Net On-Bill Financing Adjustment | \$844 (\$75) \$769 |
| 26 | Effective Target Revenue | \$638,493 |

Notes:

Totals may not add, due to rounding.

Lines 1,4,5: Final Decision and Order No. 35545, issued June 22, 2018 in

Docket No. 2016-0328. Exhibit A.

Line 2: Hawaiian Electric March 2018 Settlement Tariff Sheets, Attachment 1,

Line 2. Filed March 16, 2018 in Docket No. 2016-0328.

Lines 6,9,12,15,18,21,24: Revenue Tax based on 8.885% statutory rates.

 $Lines\ 8, 11, 14, 17, 20, 23, 26\ Transmittal\ Nos.\ 19-01,\ 19-02,\ 19-03\ Consolidated\ (Decoupling)$

Schedule B1 (Scenario 2B), filed May 28, 2019.

Change in Effective Target Revenue for MPIR is effective January 1, 2019.

See Order 35556, filed June 27, 2018 in Docket No. 2017-0213.

HAWAIIAN ELECTRIC COMPANY, INC.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

I: HISTORICAL REFERENCE

| Category | Effective Period | Effective Target Revenue (\$000) | Change in Target Revenue (\$000) | Source |
|---|---------------------------------|---|---|---|
| Annual Decoupling Filing | 6/1/2017 thru 2/15/2018 | \$604,302 | N/A (1/1/2018 Baseline) | Schedule B1 filed in Transmittal No. 17-02 on 3/31/2017. |
| 2017 Test Year Rate Case (Interim) | 2/16/2018 thru 4/12/2018 | \$637,077 | \$32,775 | Schedule B1 filed in Docket No. 2016-0328 on 1/19/2018. |
| 2017 Test Year Rate Case (Interim) | 4/13/2018 thru 5/31/2018 | \$599,960 | (37,117) | Schedule B1 filed in Docket No. 2016-0328 on 3/16/2018. |
| Annual Decoupling Filing | 6/1/2018 thru 6/30/2018 | \$612,574 | \$12,614 | Schedule B1 filed in Transmittal No. 18-01 on 3/29/2018. |
| MPIR (Schofield) | 7/1/2018 thru 9/30/2018 | \$618,587 | \$6,013 | Schedule B1 filed in Docket No. 2017-0213 on 7/18/2018. |
| MPIR (Schofield) | 10/1/2018 thru 12/31/2018 | \$620,374 | \$1,787 | Schedule B1 filed in Docket No. 2017-0213 on 12/21/2018. |
| MPIR (Schofield) | 1/1/2019 thru 5/31/2019 | \$630,624 | \$10,250 | Schedule B1 filed in Transmittal No. 19-01 on 2/7/2019. |
| Annual Decoupling Filing | 6/1/2019 (current) | \$638,493 | \$7 , 869 | Schedule B1 (Scenario 2B) filed in Transmittal No. 19-01 on 5/28/2019. |

PERFORMANCE INCENTIVE MECHANISM PROVISION

Introduction

This Performance Incentive Mechanism ("PIM") Provision provides for the determination of a PIM Financial Incentive for each approved PIM for each Evaluation Period, based on Measured Performance compared to an established Performance Target for each PIM, as specified below.

The sum of the PIM Financial Incentives determined for all PIMs for the Evaluation Period will be the Performance Incentive Adjustment, which will be applied as an adjustment to the effective Target Revenue and will be recovered from or credited to customers through the RBA Rate Adjustment, as defined by and in accordance with the terms of the Revenue Balancing Account ("RBA") Provision.

Annual PIM Provision Transmittal

On or before March 31 of the year following an Evaluation Period, the Company shall file with the Commission, the Consumer Advocate, and each party to the Company's most recent rate case proceeding, a transmittal documenting the Measured Performance and calculation of the PIM Financial Incentives and Performance Incentive Adjustment for the Evaluation Period. Complete, indexed schedules, workpapers and electronic files supporting the transmittal shall be provided with the transmittal. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, other rate case parties, and other interested persons that may propose any adjustments necessary to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

The review of the annual PIM Provision transmittal will be conducted concurrent with and in conjunction with the annual RBA Review Transmittal. The Performance Incentive Adjustment will be determined annually based on the PIM Provision transmittal and, after review and subject to explicit approval by the Commission, will become effective on June 1 of the year following the Evaluation Period, concurrent and in conjunction with determination of Target Revenues and the RBA Rate Adjustment in accordance with the RBA Provision. Any approved Performance Incentive Adjustment will be applied as monthly adjustments to Target Revenues for the twelve month period commencing June 1 of the year following the Evaluation Period in accordance with the Monthly Allocation Factors identified in the RBA Provision.

The Performance Targets, Deadbands and the amount of Maximum Financial Incentives used to determine the PIM Financial Incentive

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

levels for each of the PIMs shall be re-determined upon issuance of an interim or final order in a general rate case for each Company and shall remain constant in interim periods, unless otherwise amended, as necessary, by order of the Commission.

In the event that Performance Targets, Deadbands or the amounts of Maximum Financial Incentives are updated or amended by order of the Commission during the Evaluation Period, the Performance Targets, Deadbands and the amounts of Maximum Financial Incentives used in determining the amount of PIM Financial Incentives shall be a prorated weighted average based on the number of days of the Evaluation Period each parameter was effective.

Any revenue adjustments approved in accordance with this PIM Provision shall be excluded from the determination of Earnings Sharing Credits provided for in the Rate Adjustment Mechanism Provision ("RAM Provision").

The Performance Incentive Adjustment, and any prior year Performance Incentive Adjustment, shall be recalculated for errors in prior calculations and for subsequent Commission orders that change the basis for prior calculations. The effect of such changes shall be implemented as described in the RBA Provision, except that, the Performance Target, Deadband and Maximum Financial Incentive amounts determined in this PIM Provision shall not be recalculated based on errors in the calculation of these parameters and shall remain as specified unless and until changed by order of the Commission.

Evaluation Period

The Evaluation Period is defined as the annual twelve month calendar year period ending December 31, over which Measured Performance is determined and compared to the established Performance Target for each PIM described below. The first Evaluation Period shall begin January 1, 2018.

PIM Financial Incentive Calculation

For each PIM below, a Performance Target is specified, developed based on historical performance data. A Deadband is specified for each Performance Target in order to provide a satisfactory range of performance within which no reward or penalty amount is assessed.

A Maximum Financial Incentive amount is specified for each PIM with separate identification of a Maximum Reward Amount and a Maximum Penalty Amount.

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

Measured Performance for the Evaluation Period is compared to the Performance Target for each PIM. If the difference between Measured Performance and the Performance Target is less than or equal to the Deadband amount, no reward or penalty is awarded and the amount of the PIM Financial Incentive is zero. difference between Measured Performance and the Performance Target exceeds the Deadband amount, a reward or penalty ratio is calculated where the difference between Measured Performance and the Performance Target, less the Deadband amount, is the numerator and the Deadband amount is the denominator. This ratio is multiplied by either the Maximum Reward Amount or Maximum Penalty Amount, as applicable, to determine the PIM Financial Incentive for each PIM. The magnitude of the PIM Financial Incentive for each PIM shall not exceed 100% of the magnitude of the applicable Maximum Reward Amount or Maximum Penalty Amount established for each PIM.

Reliability Performance Incentive Mechanisms

There are two reliability PIMs: 1) System Average Interruption Frequency Index ("SAIFI"); and 2) System Average Interruption Duration Index ("SAIDI"). SAIFI is a measure of the average frequency of outages, defined as the annual total number of customer interruptions divided by the total number of customers served. SAIDI is a measure of the average duration of outage, defined as the sum of all customer interruption durations (in minutes) divided by the total number of customers served. The SAIFI and SAIDI Measured Performance and Performance Targets are determined using the IEEE Standard 1366 methodology.

For the Reliability Performance Incentive Mechanisms, the 2008-2017 record of historical performance data was used to establish the Performance Target and the Deadband. The Deadband was calculated as ±1 standard deviation of the historical performance data. Accordingly, 100% of the penalty is achieved when Measured Performance is equal to or greater than 2 standard deviations from the Performance Target.

SAIFI:

Performance Target: 1.103 interruptions per customer during the one-year Evaluation Period

Deadband: ± 0.088 interruptions (1 Standard Deviation)

HAWAIIAN ELECTRIC COMPANY, INC

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.

REVISED SHEET NO. 98C Effective September 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

Range for no penalty: 1.015 interruptions to 1.191 interruptions per customer (± 1 Standard Deviation from Target)

Rewards: Not Applicable

Penalties for greater than 1.191 interruptions per customer

Maximum Reward Amount: Not Applicable Maximum Penalty Amount: \$2,276,417.

The Maximum Penalty Amount was determined to be equal to 0.20% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

SAIDI:

Target: 99.23 minutes per outage

Deadband: ± 8.96 minutes (1 Standard Deviation)

Range for no penalty: 90.27 minutes to 108.19 minutes per outage (± 1 Standard Deviation from Target)

Rewards: Not Applicable

Penalties for greater than 108.19 minutes per outage

Maximum Reward Amount: Not Applicable Maximum Penalty Amount: \$2,276,417.

The Maximum Penalty Amount was determined to be equal to 0.20% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

Call Center Performance Incentive Mechanism

The Call Center Performance PIM measures the performance of the utility call center in terms of the percentage of calls answered within thirty (30) seconds. The calculation of the call center performance shall exclude blocked calls from the denominator.

The Performance Target for the Call Center Performance Incentive Mechanism was calculated based on the average of quarterly data from Quarter 3 of 2016 to Quarter 2 of 2018.

HAWAIIAN ELECTRIC COMPANY, INC

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.

REVISED SHEET NO. 98D Effective June 1, 2019

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

<u>Call Center Performance:</u>

Performance Target: 80.10% of calls answered within 30 seconds

Deadband: +/- 3.00% of calls answered within 30 seconds

Range for no reward or penalty: 77.10 % of calls answered to 83.10% of calls answered.

Rewards apply for greater than 83.10 % of calls answered Penalties apply for less than 77.10 % of calls answered

Maximum Reward Amount: \$910,567. Maximum Penalty Amount: \$910,567.

The magnitude of the Maximum Reward Amount and Maximum Penalty Amount were determined to be equal to 0.08% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

Additional PIMs:

The Commission may order the establishment of one or more PIMs, and the targets, deadbands, rewards, penalties, and allocations for that PIM, as applicable, shall be implemented as specified in the Commission's order that approved the applicable PIM, and the applicable PIM Financial Incentive shall be included in the Performance Incentive Adjustment.

Commission's Authority

The Commission may suspend any or all parts of this PIM Provision. Such suspension shall remain in place until removed by Commission order.

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

<u>Historical Reference</u>

The following table summarizes the prior PIMs in effect, as these values may be applicable during certain portions of the Evaluation Period.

| PIM: | Effective Period: | Performance Target: | Deadband: | Maximum Reward: | Maximum Penalty: |
|----------------|--------------------------------|---|-----------|--------------------|---------------------|
| | | | | | |
| SAIFI | 1/1/2018 thru 2/15/2018 | 1.116 interruptions per customer | +/- 0.090 | N/A | \$2,039,094 |
| SAIFI | 2/16/2018 thru 4/12/2018 | 1.116 interruptions per customer | +/- 0.090 | N/A | \$2,260,799 |
| SAIFI | 4/13/2018 thru 8/31/2018 | 1.116 interruptions per customer | +/- 0.090 | N/A | \$2,276,417 |
| SAIDI | 1/1/2018 thru 2/15/2018 | 99.03 minutes Per outage | +/- 9.07 | N/A | \$2,039,094 |
| SAIDI | 2/16/2018 thru 4/12/2018 | 99.03 minutes Per outage | +/- 9.07 | N/A | \$2,260,799 |
| SAIDI | 4/13/2018 thru 8/31/2018 | 99.03 minutes Per outage | +/- 9.07 | N/A | \$2,276,417 |
| | | | | | |
| Call Center | 1/1/2018 thru 2/15/2018 | 79.07% of calls answered within 30 sec. | +/- 3.00% | \$815,638 | \$815 , 638 |
| Call | 2/16/2018 | 79.46% of | +/- 3.00% | \$904,320 | \$904,320 |
| Center | thru 4/12/2018 | calls answered within 30 sec. | | | |
| Call Center | 4/13/2018 thru 8/31/2018 | 79.56% of calls answered within 30 sec. | +/- 3.00% | \$910,567 | \$910,567 |

HAWAIIAN ELECTRIC COMPANY, INC

HAWAIIAN ELECTRIC ATTACHMENT 1A

Superseding Revised Sheet No. 50E REVISED SHEET NO. 50E Effective May 1, 2019 Effective June 1, 2019

Deleted: February 1, 2019

RATE SCHEDULES (continued)

| Sheet | Schedule | Date Effective | Character of Service |
|-------------|----------|--------------------|--|
| 92 | "RBA" | September 1, 2018 | Revenue Balancing Account Provision |
| 92A | "RBA" | June 1, 2019, | Revenue Balancing Account Provision |
| 92A.1 | "RBA" | June 1, 2019 | Revenue Balancing Account |
| | | | Provision |
| 92B | "RBA" | February 16, 2018 | Revenue Balancing Account |
| | | | Provision |
| 92C | "RBA" | January 1, 2018 | Revenue Balancing Account |
| 0.05 | #pp. # | - 1 0010 | Provision |
| 92D | "RBA" | June 1, 2019 | Revenue Balancing Account Provision |
| 92E | "RBA" | June 1, 2019 | Revenue Balancing Account |
| 721 | NDA | oune 1, 2015 | Provision |
| 92F | "RBA" | June 1, 2019 | Revenue Balancing Account |
| | | , | Provision |
| 93 | "RAM" | June 1, 2013 | Rate Adjustment |
| | | | Mechanism Provision |
| 93A | "RAM" | June 1, 2013 | Rate Adjustment |
| | | | Mechanism Provision |
| 93B | "RAM" | June 8, 2015 | Rate Adjustment |
| 0.0- | | - 0 0015 | Mechanism Provision |
| 93C | "RAM" | June 8, 2015 | Rate Adjustment |
| 93D | "RAM" | June 1, 2017 | Mechanism Provision Rate Adjustment |
| 930 | NAM | Julie 1, 2017 | Mechanism Provision |
| 93E | "RAM" | June 8, 2015 | Rate Adjustment |
| 302 | 14111 | 0 and 0, 2010 | Mechanism Provision |
| 93F | "RAM" | June 1, 2013 | Rate Adjustment |
| | | | Mechanism Provision |
| 93G | "RAM" | June 1, 2018 | Rate Adjustment |
| | | | Mechanism Provision |
| 93H | "RAM" | June 1, 2018 | Rate Adjustment |
| 0.0 = | #P334# | - 1 0010 | Mechanism Provision |
| 931 | "RAM" | June 1, 2018 | Rate Adjustment |
| 94 | "DD7C" | Marr 1 2010 | Mechanism Provision Purchased Power |
| 24 | "PPAC" | <u>May</u> 1, 2019 | Adjustment Clause |
| 94A | "PPAC" | May 1, 2019 | Purchased Power |
| J 111 | 11110 | <u> </u> | Adjustment Clause |
| 94B | "PPAC" | May 1, 2019 | Purchased Power |
| | | · | Adjustment Clause |
| | | | |

Deleted: January 1, 2018

Deleted: June 1, 2018

Deleted: January 1, 2019

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter Dated May 28,2019.

Deleted: February 22, 2019

Superseding SHEET NO. 50F REVISED SHEET NO. 50F Effective January 1, 2019 Effective June 1, 2019

RATE SCHEDULES (continued)

| Sheet | Schedule | Date Effective | Character of Service |
|-------|----------|-------------------|--|
| 95 | EV-F | January 1, 2019 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 95A | EV-F | January 1, 2019 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 95B | EV-F | December 12, 2017 | Commercial Public Electric Vehicle Charging Facility Service Pilot |
| 96 | EV-U | December 12, 2017 | Commercial Public Electric Vehicle Charging Service Pilot |
| 96A | EV-U | December 12, 2017 | Commercial Public Electric Vehicle Charging Service Pilot |
| 97 | TOU-RI | October 18, 2018 | Residential Interim Time- of-Use Service |
| 97A | TOU-RI | January 1, 2019 | Residential Interim Time- of-Use Service |
| 97B | TOU-RI | October 18, 2018 | Residential Interim Time- of-Use Service |
| 97C | TOU-RI | January 1, 2019 | Residential Interim Time- |
| 98 | "PIM" | January 1, 2018 | of-Use Service Performance Incentive |
| 98A | "PIM" | January 1, 2018 | Mechanism Provision Performance Incentive Mechanism Provision |
| 98B | "PIM" | September 1, 2018 | Performance Incentive Mechanism Provision |
| 98C | "PIM" | September 1, 2018 | Performance Incentive Mechanism Provision |
| 98D | "PIM" | June 1, 2019 | |
| 98E | "PIM" | September 1, 2018 | Performance Incentive Mechanism Provision |
| 99 | TOU-P | January 1, 2019 | Large Commercial Time-Of- Use Service |
| 99A | TOU-P | January 1, 2019 | Large Commercial Time-Of- Use Service |
| 99B | TOU-P | January 1, 2019 | Large Commercial Time-Of- |
| 99C | TOU-P | January 1, 2019 | Use Service Large Commercial Time-Of- Use Service |

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HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 28, 2019.

Deleted: Docket No. 2016-0328; Order No. 35927, Filed on December 7, 2018.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

Supplement To:

| Schedule Schedule Schedule Schedule | G – J – | Residential Service General Service - Non-Demand General Service - Demand Large Power Directly Served Service |
|--|------------|---|
| Schedule | P - | Large Power Service |
| Schedule | F - | Public Street Lighting, Highway |
| | | Lighting and Park and Playground Floodlighting |
| Schedule | U - | Time-of-Use Service |
| Schedule | TOU-R - | Residential Time-of-Use Service |
| Schedule | TOU-G - | Small Commercial Time-of-Use Service |
| Schedule | TOU-J - | Commercial Time-of-Use Service |
| Schedule | TOU-P - | Large Commercial Time-of-Use Service |
| Schedule | SS - | Standby Service |
| Schedule | TOU EV- | Residential Time-of-Use Service with |
| | | Electric Vehicle Pilot |
| Schedule | EV-F - | Commercial Public Electric Vehicle |
| | | Charging Facility Service Pilot |
| Schedule | TOU-RI- | Residential Interim Time-of-Use Service |

All terms and provisions of the above listed rate schedules applicable except that the total base rate charges for each billing period shall be adjusted by the Revenue Balancing Account Rate

A: PURPOSE:

Adjustments shown below:

The purpose of the Revenue Balancing Account ("RBA") is to record: 1) the difference between the Hawaiian Electric Company's target revenue and recorded adjusted revenue, and 2) monthly interest applied to the simple average of the beginning and ending month balances in the RBA. In addition, the recovery provision of this tariff provides for collection or return of the calendar year-end balance in the RBA and recovery or refund of the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits provided in the Rate Adjustment Mechanism ("RAM") Provision, and any revenue adjustment provided in accordance with the Performance Incentive Mechanism Provision, over the subsequent June 1st through May 31st period. Tracking of target revenue and recorded adjusted revenue commenced on the effective date of the tariff that implemented the Final Decision and Order in Hawaiian Electric's 2009 test year rate case, Docket No. 2008-0083, consistent with the Final Decision and Order in the Decoupling case, Docket No. 2008-0274.

HAWAIIAN ELECTRIC COMPANY, INC.

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018.

Transmittal Letter Dated July 23, 2018

REVISED SHEET NO. 92A Effective June 1, 2019

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

B: TARGET REVENUE:

For the purpose of the RBA, the target revenue is the annual electric revenue approved by the Public Utilities Commission in the last issued Decision & Order in the Company's most recent test year general rate case, excluding revenue for fuel and purchased power expenses that are recovered either in base rates or in a purchased power adjustment clause; excluding revenue being separately tracked or recovered through any other surcharge or rate tracking mechanism; and excluding amounts for applicable revenue taxes;

Plus: Any effective RAM Revenue Adjustment calculated under the RAM provision for years subsequent to the most recent rate case test year for which the Commission has issued a Decision & Order; and any Performance Incentive Adjustment provided for in accordance with the Performance Incentive Mechanism Provision; and

Less: Any applicable Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits calculated under the RAM provision.

Adjusted by: Other adjustments, as applicable, in accordance with Commission's Order authorizing such adjustment. Other adjustments, if any, are shown in the table Target Revenue Currently in Effect, provided in section H.

The target revenue shall be revised to correct for any errors in the calculation of the RAM Revenue Adjustment, Performance Incentive $\frac{1}{2}$ Adjustment, recorded adjusted revenues or other RBA accounting determinations (collectively "target revenue determinations") for any previous period and for revisions to RAM Revenue Adjustments or Performance Incentive Adjustments as a result of subsequent Commission orders that change the basis of previously calculated RAM Revenue Adjustments and/or Performance Incentive Adjustments. corrections of errors in previously calculated target revenue determinations, the target revenue shall be adjusted as of the date that the correct determinations would have been reflected in target revenue. For changes in the RAM Revenue Adjustment and/or Performance Incentive Adjustments as a result of subsequently issued Commission orders, the target revenue shall be adjusted as of the effective date of changes that are implemented pursuant to the subsequently issued Commission order.

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HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 28, 2019.

SHEET NO. 92A.1 Effective June 1, 2019

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

The Commission and the Consumer Advocate will be notified of the target revenue revisions or corrections prior to implementation by the Company. There is no presumption that the target revenue changes are ultimately warranted or correct. In the annual RBA review transmittal ("RBA Review Transmittal") filed on or before March 31 of each year, the utility will have the burden to demonstrate that the interim changes for the previous calendar year are warranted and correctly applied. The Consumer Advocate will provide comments regarding the changes with its Statement of Position. The RBA balance and RBA Rate Adjustment for the following year will reflect any appropriate modifications to the change made by the utility in the prior year if necessary.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 28, 2019.

Superseding REVISED SHEET NO. 92B Effective June 1, 2017

REVISED SHEET NO. 92B Effective February 16, 2018

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

Monthly Allocation Factors for the Target Revenue are as follows:

| January February | 8.19% 7.59% |
|---------------------|----------------|
| March | 8.10% |
| | |
| April | 7.98% |
| May | 8.40% |
| June | 8.07% |
| July | 8.70% |
| August | 8.94% |
| September | 8.65% |
| October | 8.84% |
| November | 8.26% |
| December | 8.28% |
| Total | 100.00% |
| | |

These factors are based on the mWh sales forecast that is approved by the Commission in Hawaiian Electric's 2017 test year rate case and shall be updated in any subsequent test year rate case.

C: BALANCING ACCOUNT ENTRIES:

Entries to the RBA will be recorded monthly. A debit entry to the RBA will be made equal to the target revenue as defined in Section B. above, times the appropriate monthly allocation factor in the table above. A credit entry to the RBA will be made equal to the recorded adjusted revenue. The recorded adjusted revenue is defined to include the electric sales revenue from authorized base rates, plus revenue from any authorized interim rate increase, plus revenue from any RBA rate adjustment, but excluding revenue for fuel and purchased power expenses, IRP/DSM, any Commission Ordered one-time rate refunds or credits or other surcharges, and adjusted to remove amounts for applicable revenue taxes.

Interest will be recorded monthly to the RBA by multiplying the simple average of the beginning and ending month balance in the RBA times the Interest Rate divided by 12. The Interest Rate shall be the short term debt rate as established in deriving the consolidated cost of capital in the Company's last full rate case. The Interest Rate prior to March 1, 2014 shall be 6 percent.

D: RECOVERY OF BALANCING ACCOUNT AMOUNTS:

In its annual RBA Review Transmittal, the Company will file with the Commission a statement of the previous calendar year-end balance in the RBA and the RAM Revenue Adjustment for the current calendar year, along with supporting calculations.

HAWAIIAN ELECTRIC COMPANY, INC.

Docket No. 2016-0328; Order No. 35280, issued February 9, 2018. Transmittal Letter Dated February 12, 2018.

Superseding REVISED SHEET NO. 92C Effective June 1, 2017

REVISED SHEET NO. 92C Effective January 1, 2018

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

Both an amortization of the previous calendar year-end balance in the RBA, adjusted for any Earnings Sharing Revenue Credits or Major Capital Projects Credits, Baseline Capital Projects Credits or corrections, any Performance Incentive Adjustment provided in accordance with the Performance Incentive Mechanism Provision and the RAM Revenue Adjustment will be recovered through a per-kWh RBA rate adjustment, over the 12 months from June 1 of the current calendar year to May 31 of the succeeding calendar year. The recovery through the RBA Rate Adjustment of a RAM Revenue Adjustment calculated for a calendar year that is also a rate case test year shall terminate on the effective date of tariff rates that implement a Commission approved base revenue level authorized in the Company's test year rate case.

Revisions to Target Revenue based on corrections for errors and subsequently issued Commission orders, described in Section B above, will not be reflected in the RBA Rate Adjustment until a succeeding June 1 to May 31 period, unless otherwise ordered or approved by the Commission.

On or before March 31 of each year, the Company shall file with the Commission, the Consumer Advocate, and each party to the Company's most recent rate case proceeding, an RBA Review Transmittal supporting the implementation of the RBA Provision, including RBA reconciliation, implementation of applicable components of the RAM Provision and Performance Incentive Mechanism Provision, determination and adjustments of target revenues, determination of the RBA Rate Adjustment; and documenting any errors, corrections and adjustments to Target Revenues in the preceding calendar year and prior to the transmittal date.

Complete, indexed workpapers and electronic files supporting the previous year-end balance in the RBA and target revenue determinations shall be provided to the Commission, the Consumer Advocate and all other parties to the Utility's most recent rate case proceeding ("Other Rate Case Parties"), if any, as part of the annual RBA Review Transmittal filing. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, Other Rate Case Parties, and other interested persons that may propose any adjustments necessary to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

Superseding <u>REVISED</u> SHEET NO. 92D Effective <u>June 1, 2018</u>

REVISED SHEET NO. 92D Effective June 1, 2019

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REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

As described in Sections 6-61-61 and 6-61-111 of the Hawaii Administrative Rules, Title 6, Chapter 61, based upon the Company's filed schedules and in the absence of any protests submitted by the Consumer Advocate, Other Rate Case Parties, or other interested persons, not later than 15 days before June 1st, the RBA Rate Adjustment shall go into effect on June 1st, and the Commission shall confirm the commencement of the RBA Rate Adjustment in its monthly Tariff Order.

E: REVENUE BALANCING ACCOUNT RATE ADJUSTMENT:

The RBA Rate Adjustment is comprised of the calculated values from Section D above, adjusted to include amounts for applicable revenue taxes, and calculated based on the Company's forecast of mWh sales over the RBA Rate Adjustment recovery period.

The RBA Rate Adjustment shall remain unchanged during the recovery period unless further modification is required by order or approval of the Commission, except as specifically provided above.

RBA Rate Adjustment

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F. NOTICE

Notice of the annual Revenue Balancing Account Rate Adjustment filing shall be provided to all affected customers of the Utility in accordance with the provisions of this section by publication in newspapers of general circulation within 14 days and by including notification with its billing statements within 60 days after the Company makes its annual RBA Review Transmittal filing pursuant to this tariff. The notice to customers shall include the following information:

- a) A description of the proposed revision of revenues, Earnings Sharing Credits, and Major or Baseline Capital Projects Credits;
- b) The effect on the rates applicable to each customer class and on the typical bill for residential customers; and
- c) The Company's address, telephone number and website where information concerning the proposed Revenue Balancing Account Rate Adjustment may be obtained.

G: COMMISSION'S AUTHORITY

The Commission may $\underline{modify\ or}$ suspend any or all parts of this Revenue Balancing Account Provision. Such suspension shall remain in place until removed by Commission Order.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter Dated May 28, 2019.

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H: TARGET REVENUE CURRENTLY IN EFFECT

Hawaiian Electric Company, Inc. Annual Target Revenue (\$000s)

| | Description | <u>Amount</u> |
|------------------|---|--|
| 1 2 3 | Electric Sales Revenue (Unadjusted) Tax Act Implementation Lag Electric Sales Revenue (Adjusted) | \$1,531,852 (\$2,143) \$1,529,709 |
| 4 5 6 7 | Less: Fuel Expense Purchase Power Expense Revenue Tax on Electric Sales Revenue Last Rate Order Target Revenues | (\$327,609) (\$466,211) (\$135,915) \$599,974 |
| 8 | Authorized RAM Revenues | \$22,938 |
| 9 | Revenue Tax | (\$2,038) |
| 10 | Net RAM Adjustment | \$20,900 |
| 11 | Authorized MPIR Revenues | \$19,811 |
| 12 | Revenue Tax | (\$1,760) |
| 13 | Net MPIR Adjustment | \$18,051 |
| 14 | Earnings Sharing Revenue Credits | \$0 |
| 15 | Revenue Tax | \$0 |
| 16 | Net Earnings Sharing Revenue Credits | \$0 |
| 17 | Performance Incentive Mechansim (PIM) | (\$1,269) |
| 18 | Revenue Tax | \$113 |
| 19 | Net PIM Reward (Penalty) | (\$1,157) |
| 20 | 2017 Test Year Final D&O Refund | (\$48) |
| 21 | Revenue Tax | \$4 |
| 22 | Net 2017 Test Year Final D&O Refund | (\$44) |
| 23 | On-Bill Financing Pgm Implementation Costs | \$844 |
| 24 | Revenue Tax | (\$75) |
| 25 | Net On-Bill Financing Adjustment | \$769 |
| 26 | Effective Target Revenue | \$638,493 |

Notes:

Totals may not add, due to rounding.

Lines 1,4,5: Final Decision and Order No. 35545, issued June 22, 2018 in

Docket No. 2016-0328. Exhibit A.

Hawaiian Electric March 2018 Settlement Tariff Sheets, Attachment 1, Line 2:

Line 2. Filed March 16, 2018 in Docket No. 2016-0328.

Lines 6,9,12,15,18,21,24: Revenue Tax based on 8.885% statutory rates.

Lines 8,11,14,17,20,23,26: Transmittal Nos. 19-01, 19-02, 19-03 Consolidated (Decoupling)

Schedule B1 (Scenario 2B), filed May 28, 2019.

Change in Effective Target Revenue for MPIR is effective January 1, 2019.

See Order 35556, filed June 27, 2018 in Docket No. 2017-0213.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter Dated May 28, 2019.

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SHEET NO. 92F Effective June 1, 2019

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (continued)

I: HISTORICAL REFERENCE

| Category | <u>Effective</u> | Effective | Change in | Source | | |
|------------------|------------------|---------------------|-------------------------|---------------------|-------------|-------------|
| | Period | Target | Target | | | |
| | | Revenue | Revenue | | | |
| | | (\$000) | (\$000) | | | |
| | | 170007 | 140007 | | | |
| Annual | 6/1/2017 | \$604,302 | N/A | Schedule B1 | | |
| Decoupling | thru | | $\overline{(1/1/2018)}$ | filed in | | |
| Filing | ${2/15}/2018$ | | Baseline) | Transmittal | | |
| | | | | No. 17-02 on | | |
| | | | | 3/31/2017. | | |
| 2017 Test | 2/16/2018 | \$637,077 | \$32,775 | Schedule B1 | | |
| Year Rate | thru | 9037,077 | 452,115 | filed in | | |
| Case | 4/12/2018 | | | Docket No. | | |
| | 4/12/2010 | | | | | |
| (Interim) | | | | 2016-0328 on | | |
| | | | | 1/19/2018. | | |
| <u>2017 Test</u> | 4/13/2018 | <u>\$599,960</u> | <u>(37,117)</u> | <u>Schedule B1</u> | | |
| <u>Year Rate</u> | <u>thru</u> | | | <u>filed in</u> | | |
| <u>Case</u> | 5/31/2018 | | | Docket No. | | |
| (Interim) | | | | <u>2016-0328 on</u> | | |
| | | | | 3/16/2018. | | |
| Annual | 6/1/2018 | \$612,574 | \$12,614 | Schedule B1 | | |
| Decoupling | thru | 1 | | filed in | | |
| Filing | 6/30/2018 | | | Transmittal | | |
| TITING | 0/30/2010 | | | No. 18-01 on | | |
| | | | | 3/29/2018. | | |
| MPIR | 7/1/2018 | \$618,587 | \$6,013 | Schedule B1 | | |
| | | 3010,307 | 30,013 | | | |
| (Schofield) | <u>thru</u> | | | filed in | | |
| | 9/30/2018 | | | Docket No. | | |
| | | | | 2017-0213 on | | |
| | | | | <u>7/18/2018.</u> | | |
| <u>MPIR</u> | 10/1/2018 | \$620,374 | \$1 , 787 | Schedule B1 | | |
| (Schofield) | <u>thru</u> | | | <u>filed in</u> | | |
| | 12/31/2018 | | | Docket No. | | |
| | | | | 2017-0213 on | | |
| | | | | 12/21/2018. | | |
| MPIR | 1/1/2019 | \$630,624 | \$10,250 | Schedule B1 | | |
| (Schofield) | thru | 1000/021 | 120/200 | filed in | | |
| (benoticia) | 5/31/2019 | | | Transmittal | | |
| | 3/31/2017 | | | No. 19-01 on | | |
| | | | | | | |
| 7 7 | 6 /1 /0010 | 2620 402 | 47.060 | <u>2/7/2019.</u> | | Dalata Lai |
| Annual | 6/1/2019 | <u>\$638,493</u> | <u>\$7,869</u> | Schedule B1 | | Deleted: 63 |
| Decoupling | (current) | | | (Scenario 2B) | | Deleted: 7, |
| <u>Filing</u> | | | | <u>filed in</u> | | |
| | | | | <u>Transmittal</u> | | |
| | | | | No. 19-01 on | | |
| | | | | 5/28/2019. | | Deleted: 2: |
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HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter Dated May 28, 2019.

SHEET NO. 98
Effective January 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION

Introduction

This Performance Incentive Mechanism ("PIM") Provision provides for the determination of a PIM Financial Incentive for each approved PIM for each Evaluation Period, based on Measured Performance compared to an established Performance Target for each PIM, as specified below.

The sum of the PIM Financial Incentives determined for all PIMs for the Evaluation Period will be the Performance Incentive Adjustment, which will be applied as an adjustment to the effective Target Revenue and will be recovered from or credited to customers through the RBA Rate Adjustment, as defined by and in accordance with the terms of the Revenue Balancing Account ("RBA") Provision.

Annual PIM Provision Transmittal

On or before March 31 of the year following an Evaluation Period, the Company shall file with the Commission, the Consumer Advocate, and each party to the Company's most recent rate case proceeding, a transmittal documenting the Measured Performance and calculation of the PIM Financial Incentives and Performance Incentive Adjustment for the Evaluation Period. Complete, indexed schedules, workpapers and electronic files supporting the transmittal shall be provided with the transmittal. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, other rate case parties, and other interested persons that may propose any adjustments necessary to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

The review of the annual PIM Provision transmittal will be conducted concurrent with and in conjunction with the annual RBA Review Transmittal. The Performance Incentive Adjustment will be determined annually based on the PIM Provision transmittal and, after review and subject to explicit approval by the Commission, will become effective on June 1 of the year following the Evaluation Period, concurrent and in conjunction with determination of Target Revenues and the RBA Rate Adjustment in accordance with the RBA Provision. Any approved Performance Incentive Adjustment will be applied as monthly adjustments to Target Revenues for the twelve month period commencing June 1 of the year following the Evaluation Period in accordance with the Monthly Allocation Factors identified in the RBA Provision.

The Performance Targets, Deadbands and the amount of Maximum Financial Incentives used to determine the PIM Financial Incentive

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

SHEET NO. 98A Effective January 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

levels for each of the PIMs shall be re-determined upon issuance of an interim or final order in a general rate case for each Company and shall remain constant in interim periods, unless otherwise amended, as necessary, by order of the Commission.

In the event that Performance Targets, Deadbands or the amounts of Maximum Financial Incentives are updated or amended by order of the Commission during the Evaluation Period, the Performance Targets, Deadbands and the amounts of Maximum Financial Incentives used in determining the amount of PIM Financial Incentives shall be a prorated weighted average based on the number of days of the Evaluation Period each parameter was effective.

Any revenue adjustments approved in accordance with this PIM Provision shall be excluded from the determination of Earnings Sharing Credits provided for in the Rate Adjustment Mechanism Provision ("RAM Provision").

The Performance Incentive Adjustment, and any prior year Performance Incentive Adjustment, shall be recalculated for errors in prior calculations and for subsequent Commission orders that change the basis for prior calculations. The effect of such changes shall be implemented as described in the RBA Provision, except that, the Performance Target, Deadband and Maximum Financial Incentive amounts determined in this PIM Provision shall not be recalculated based on errors in the calculation of these parameters and shall remain as specified unless and until changed by order of the Commission.

Evaluation Period

The Evaluation Period is defined as the annual twelve month calendar year period ending December 31, over which Measured Performance is determined and compared to the established Performance Target for each PIM described below. The first Evaluation Period shall begin January 1, 2018.

PIM Financial Incentive Calculation

For each PIM below, a Performance Target is specified, developed based on historical performance data. A Deadband is specified for each Performance Target in order to provide a satisfactory range of performance within which no reward or penalty amount is assessed.

A Maximum Financial Incentive amount is specified for each PIM with separate identification of a Maximum Reward Amount and a Maximum Penalty Amount.

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 35165; Approving, With Modifications, Proposed Revisions To RBA Tariffs, Filed December 29, 2017. Transmittal Letter dated January 11, 2018.

Superseding Sheet no. 98B Effective January 1, 2018

REVISED SHEET NO. 98B Effective September 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

Measured Performance for the Evaluation Period is compared to the Performance Target for each PIM. If the difference between Measured Performance and the Performance Target is less than or equal to the Deadband amount, no reward or penalty is awarded and the amount of the PIM Financial Incentive is zero. If the difference between Measured Performance and the Performance Target exceeds the Deadband amount, a reward or penalty ratio is calculated where the difference between Measured Performance and the Performance Target, less the Deadband amount, is the numerator and the Deadband amount is the denominator. This ratio is multiplied by either the Maximum Reward Amount or Maximum Penalty Amount, as applicable, to determine the PIM Financial Incentive for each PIM. The magnitude of the PIM Financial Incentive for each PIM shall not exceed 100% of the magnitude of the applicable Maximum Reward Amount or Maximum Penalty Amount established for each PIM.

Reliability Performance Incentive Mechanisms

There are two reliability PIMs: 1) System Average Interruption Frequency Index ("SAIFI"); and 2) System Average Interruption Duration Index ("SAIDI"). SAIFI is a measure of the average frequency of outages, defined as the annual total number of customer interruptions divided by the total number of customers served. SAIDI is a measure of the average duration of outage, defined as the sum of all customer interruption durations (in minutes) divided by the total number of customers served. The SAIFI and SAIDI Measured Performance and Performance Targets are determined using the IEEE Standard 1366 methodology.

For the Reliability Performance Incentive Mechanisms, the 2008-2017 record of historical performance data was used to establish the Performance Target and the Deadband. The Deadband was calculated as ± 1 standard deviation of the historical performance data. Accordingly, 100% of the penalty is achieved when Measured Performance is equal to or greater than 2 standard deviations from the Performance Target.

SAIFI:

Performance Target: 1.103 interruptions per customer during the one-year Evaluation Period

Deadband: ± 0.088 interruptions (1 Standard Deviation)

HAWAIIAN ELECTRIC COMPANY, INC

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.

Superseding Sheet No. 98C Effective January 1, 2018

REVISED SHEET NO. 98C Effective September 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

Range for no penalty: 1.015 interruptions to 1.191 interruptions per customer (± 1 Standard Deviation from Target)

Rewards: Not Applicable

Penalties for greater than 1.191 interruptions per customer

Maximum Reward Amount: Not Applicable Maximum Penalty Amount: \$2,276,417.

The Maximum Penalty Amount was determined to be equal to 0.20% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

SAIDI:

Target: 99.23 minutes per outage

Deadband: ± 8.96 minutes (1 Standard Deviation)

Range for no penalty: 90.27 minutes to 108.19 minutes per outage (± 1 Standard Deviation from Target)

Rewards: Not Applicable

Penalties for greater than 108.19 minutes per outage

Maximum Reward Amount: Not Applicable Maximum Penalty Amount: \$2,276,417.

The Maximum Penalty Amount was determined to be equal to 0.20% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

Call Center Performance Incentive Mechanism

The Call Center Performance PIM measures the performance of the utility call center in terms of the percentage of calls answered within thirty (30) seconds. The calculation of the call center performance shall exclude blocked calls from the denominator.

The Performance Target for the Call Center Performance Incentive Mechanism was calculated based on the average of quarterly data from Quarter 3 of 2016 to Quarter 2 of 2018.

HAWAIIAN ELECTRIC COMPANY, INC

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.

Superseding Sheet No. 98D REVISED SHEET NO. 98D Effective September 1, 2018 Effective June 1, 2019

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

Deleted: January

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Call Center Performance:

Performance Target: 80.10% of calls answered within 30 seconds

Deadband: +/- 3.00% of calls answered within 30 seconds

Range for no reward or penalty: 77.10 % of calls answered to 83.10% of calls answered.

Rewards apply for greater than 83.10 % of calls answered Penalties apply for less than 77.10 % of calls answered

Maximum Reward Amount: \$910,567. Maximum Penalty Amount: \$910,567.

The magnitude of the Maximum Reward Amount and Maximum Penalty Amount were determined to be equal to 0.08% of Common Equity Share of Approved Average Test Year Rate Base determined in the most recent interim or final order in a general rate case for each Company.

Additional PIMs:

The Commission may order the establishment of one or more PIMs, and the targets, deadbands, rewards, penalties, and allocations for that PIM, as applicable, shall be implemented as specified in the Commission's order that approved the applicable PIM, and the applicable PIM Financial Incentive shall be included in the Performance Incentive Adjustment.

Commission's Authority

The Commission may suspend any or all parts of this PIM Provision. Such suspension shall remain in place until removed by Commission order.

> Deleted: Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.¶

HAWAIIAN ELECTRIC COMPANY, INC

Transmittal Letter dated May 28, 2019.

SHEET NO. 98E Effective September 1, 2018

PERFORMANCE INCENTIVE MECHANISM PROVISION (continued)

<u>Historical Reference</u>

| PIM: | Effective | Performance | Deadband: | Maximum | Maximum |
|--------|-----------|----------------|-----------|--------------------|--------------------|
| | Period: | Target: | | Reward: | Penalty: |
| | | | | | |
| SAIFI | 1/1/2018 | 1.116 | +/- 0.090 | N/A | \$2,039,094 |
| | thru | interruptions | | | |
| | 2/15/2018 | per customer | | | |
| SAIFI | 2/16/2018 | 1.116 | +/- 0.090 | N/A | \$2,260,799 |
| | thru | interruptions | | | |
| | 4/12/2018 | per customer | | | |
| SAIFI | 4/13/2018 | 1.116 | +/- 0.090 | N/A | \$2,276,417 |
| | thru | interruptions | | | |
| | 8/31/2018 | per customer | | | |
| | | | | | |
| SAIDI | 1/1/2018 | 99.03 minutes | +/- 9.07 | N/A | \$2,039,094 |
| | thru | Per outage | | | |
| | 2/15/2018 | | | | |
| SAIDI | 2/16/2018 | 99.03 minutes | +/- 9.07 | N/A | \$2,260,799 |
| | thru | Per outage | | | |
| | 4/12/2018 | | | | |
| SAIDI | 4/13/2018 | 99.03 minutes | +/- 9.07 | N/A | \$2,276,417 |
| | thru | Per outage | | | |
| | 8/31/2018 | | | | |
| | | | | | |
| Call | 1/1/2018 | 79.07% of | +/- 3.00% | \$815,638 | \$815 , 638 |
| Center | thru | calls answered | | | |
| | 2/15/2018 | within 30 sec. | | | |
| Call | 2/16/2018 | 79.46% of | +/- 3.00% | \$904,320 | \$904,320 |
| Center | thru | calls answered | | | |
| | 4/12/2018 | within 30 sec. | | | |
| Call | 4/13/2018 | 79.56% of | +/- 3.00% | \$910 , 567 | \$910 , 567 |
| Center | thru | calls answered | | | |
| | 8/31/2018 | within 30 sec. | | | |

HAWAIIAN ELECTRIC COMPANY, INC

Docket No. 2016-0328; Final Decision And Order No. 35545, Filed on June 22, 2018. Transmittal Letter Dated July 23, 2018.

<u>Attachment 2B – List of Schedules and Workpapers</u>

| Schedule A (REVISED) | HECO-WP-A-001 |
|-----------------------|-------------------------|
| Schedule A1 (REVISED) | HECO-WP-B-001 |
| Schedule B (REVISED) | HECO-WP-C-001 |
| Schedule B1 (REVISED) | HECO-WP-C-002 |
| Schedule B2 | HECO-WP-C-003 |
| Schedule C | HECO-WP-D1-001 |
| Schedule C1 | HECO-WP-D2-001 |
| Schedule C2 | HECO-WP-D2-002 |
| Schedule D (REVISED) | HECO-WP-D2-003 |
| Schedule D1 (REVISED) | HECO-WP-D2-004 |
| Schedule D2 | HECO-WP-D3-001 |
| Schedule D3 | HECO-WP-D4-001 |
| Schedule D4 | HECO-WP-D4-002 |
| Schedule D5 (REVISED) | HECO-WP-D4-003 |
| Schedule E (REVISED) | HECO-WP-E-001 |
| Schedule F (REVISED) | HECO-WP-F-001 |
| Schedule F1 | HECO-WP-F1-001 |
| Schedule F2 | HECO-WP-F1-002 |
| Schedule G | HECO-WP-F1-003 |
| Schedule H (REVISED) | HECO-WP-H-001 |
| Schedule I | HECO-WP-H-002 |
| Schedule J | HECO-WP-H-003 |
| Schedule K | HECO-WP-H-004 |
| Schedule L | HECO-WP-H-005 |
| Schedule L1 | HECO-WP-H-006 (REVISED) |
| Schedule M (REVISED) | HECO-WP-H-007 |
| Schedule N | HECO-WP-H-008 |
| | HECO-WP-H-009 |
| | HECO-WP-L1-001 |
| | HECO-WP-L1-002 |
| | HECO-WP-L1-003 |
| | HECO-WP-M-001 (REVISED) |
| | HECO-WP-M-002 |
| | HECO-WP-M-003 |
| | HECO-WP-M-004 |
| | HECO-WP-M-005 |

6/1/2019

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK

DETERMINATION OF 2019 REVENUE BALANCING ACCOUNT RATE ADJUSTMENT

SCENARIO 3 - WEST LOCH PV INCLUDED IN RAM REVENUE ADJUSTMENT / 25 KV INCLUDED IN 2018 SAIDI AND SAIFI PIM CALCULATIONS

| Lina No | . Description | Reference | Amount | 6/1/2019 Pata Amount | | |
|---------|--|----------------|----------------------------------|-------------------------|----------|-------------|
| Line No | (a) | (b) | Amount (c) | Rate Amount (d) | | |
| | (a) | (6) | (c) | (u) | | |
| | RECONCILIATION OF RBA BALANCE: | | | | | |
| 1 | RBA Prior calendar year-end balance | Schedule B | \$ 37,331,443 | | | |
| 1a | OBF Program Implementation Cost Recovery - Year 1 of 2 | Schedule N | \$ 768,575 \$ 38,100,018 | | | |
| 2 | Revenue Tax Factor | Schedule C | 1.0975 | | | |
| 3 | Revenue for RBA Balance | | | \$ 41,814,770 | | |
| | RATE ADJUSTMENT MECHANISM "RAM" AMOUNT: | | | | | |
| 4 | Total RAM Revenue Adjustment Allowed (Note 2) | Schedule A1 | | \$ 22,938,101 | | |
| 5 | EARNINGS SHARING REVENUE CREDITS - 2019 ROE: | Schedule H | | \$ - | | |
| 6 | PERFORMANCE INCENTIVE MECHANISM REWARD (PENALTY) | Schedule M | | \$ (1,269,311) | | |
| 7 | 2017 TEST YEAR RATE CASE FINAL D&O REFUND | Note (3) | | \$ (48,000) | | |
| 8 | PUC-ORDERED MAJOR OR BASELINE CAPITAL PROJECTS CREDITS | Schedule I | | \$ - | | |
| 9 | TOTAL RBA REVENUE ADJUSTMENT | Sum Col. (d) | | \$ 63,435,560 | | |
| 10 | GWH SALES VOLUME ESTIMATE JUNE 2019 - MAY 2020 | HECO-WP-A-001 | | 6,489.900 | 6/1/2018 | Incremental |
| 11 | RBA RATE ADJUSTMENT - cents per kWh | Note (1) | | 0.9775 | 1.0350 | (0.0575) |
| 12 | MONTHLY BILL IMPACT @ 600 KWH | | | \$ 5.86 | \$ 6.21 | \$ (0.35) |
| | MONTHLY BILL IMPACT @ 500 KWH | | | \$ 4.89 | \$ 5.18 | \$ (0.29) |
| | Note (1): 2019 RBA Rate Adjustment Breakdown | Col. (d) | Rate Adjustment cents per kWh | Percentage Share | | |
| | RBA Balance | \$ 41,814,770 | 0.64430530 | 65.9169% | | |
| | RAM Amount | \$ 22,938,101 | 0.35344306 | 36.1597% | | |
| | Earnings Sharing Revenue Credits | \$ - | 0.00000000 | 0.0000% | | |
| | Performance Incentive Mechanism Reward (Penalty) | \$ (1,269,311) | -0.01955825 | -2.0009% | | |
| | 2017 Test Year Rate Case Final D&O Refund | \$ (48,000) | -0.00073961 | -0.0757% | | |
| | Major or Baseline Capital Projects Credits | \$ - | 0.00000000 | 0.0000% | | |
| | | \$ 63,435,560 | 0.97745049 | 100.0000% | | |

Note (2): Total RAM Revenue Adjustment Allowed is the sum of the RAM Cap + Exceptional and Other Projects. See Order No. 32735, filed March 31, 2015, paragraph 107, page 94, which states that the Total RAM Revenue Adjustment is to be comprised of the RAM Cap plus recovery of Exceptional And Other Matters.

Note (3): Docket No. 2016-0328 - Hawaiian Electric 2017 Test Year Rate Case Hawaiian Electric Proposed PIM Tariff Revisions and Refund Calculation, Exhibit 4, filed July 23, 2018, and approved by the Commission in Order No. 35661, filed August 30, 2018.

SCHEDULE A1 (REVISED 05-28-19) (REVISED 05-21-19) PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TOTAL RAM REVENUE ADJUSTMENT ALLOWED

| Line No. | Description | Reference | | Amount |
|----------|--|----------------------------|------|------------|
| | (a) | (b) | | (c) |
| | RAM REVENUE ADJUSTMENT DETERMINED ACC | CORDING TO EXISTING TA | RIFF | S AND |
| | PROCEDURES | | | |
| 1 | O&M RAM | Schedule C | \$ | 8,622,195 |
| 2 | Rate Base RAM - Return on Investment | Schedule D | \$ | 11,376,190 |
| 3 | Depreciation & Amortization RAM Expense | Schedule E | \$ | 2,939,716 |
| 4 | Total RAM Revenue Adjustment | | \$ | 22,938,101 |
| | RAM REVENUE ADJUSTMENT CAP | | | |
| 5 | RAM Cap for 2019 RAM Revenue Adjustment | Schedule J | \$ | 27,945,687 |
| 6 | Plus: Exceptional and Other Matters | Schedule K | \$ | - |
| 7 | 2019 Cap - Total RAM Revenue Adjustment (Note 2) | | \$ | 27,945,687 |
| 8 | Total RAM Revenue Adjustment Allowed (Note 1) | Lesser of Line 4 or Line 7 | \$ | 22,938,101 |
| | | | | To Sch A |

Note 1 RAM Revenue Adjustment Allowed:

See Order No. 32735, filed March 31, 2015, paragraph 106, page 94:

"The RAM Revenue Adjustment to be applied to determine effective Target Revenues will be the **lesser of** (a) the RAM Revenue Adjustment determined according to existing tariffs and procedures or (b) a RAM Revenue Adjustment Cap ("RAM Cap) to be calculated as specified."

Note 2 Total RAM Cap:

See Order No. 32735, filed March 31, 2015, paragraph 110, page 96:

"The RAM Cap will apply to the entire RAM Revenue Adjustment including the O&M RAM, Rate Base RAM (including Major Capital Projects and Baseline Projects), and the Depreciation and Amortization RAM."

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK SUMMARY OF ACCUMULATED REVENUE BALANCING ACCOUNT

| Line No | (a) | Beginning Balance (b) | | Target Revenues (c) | Revenue RBA (d) (e) | | Variance to RBA (e) | Adjustment for prior year RBA accrual | | Tax-effected Balance Subject to Interest (g) | | Interest at 1.75%/year (h) | | End Bala (i | nce | |
|----------|--------------------|-----------------------------|-----|---------------------|---------------------|-------------|---------------------|---------------------------------------|----|--|-----|-----------------------------|----------|-------------------|-----------------|-----------------|
| | Monthly RBA Balanc | 2 (| Mon | thly PUC Rpt) | | | | | | | | | | | | |
| | 2017 D 1 | \$ 18,013,624 | Φ | 10.015.226 | • | 12 720 500 | Ф | C 104 720 | • | (2.202.055) | | 20.160.047 | Ф | 12.520 | e 10.2 | 21.526 |
| 1 2 | 2017 December | \$ 46,306,327 | \$ | 49,915,326 | \$ | 43,730,598 | \$ | 6,184,728 | \$ | (3,302,057) | | 29,169,047 | \$ | 42,538 | \$ 49,23 | 31,336 |
| 3 | 2018 January | \$ 49,231,536 | \$ | 48,948,443 | \$ | 43,871,232 | ¢ | 5,077,211 | \$ | (3,369,650) | \$ | 37,188,347 | \$ | 54,233 | \$ 50,99 | 2220 |
| <i>3</i> | February | \$ 49,231,330 | \$ | 45,953,154 | \$ | 43,871,232 | | 5,522,935 | \$ | (4,185,853) | \$ | 38,358,939 | \$ \$ | 55,940 | \$ 50,9 | - |
| | • | | | , , | | | | | \$ | , | \$ | | | , | | - 1 |
| 5 | March | \$ 52,386,352 | \$ | 51,603,222 | \$ | 46,365,780 | \$ | 5,237,442 | | (3,345,112) | | 39,599,394 | \$ | 57,749 | \$ 54,33 | - |
| 6 | April | \$ 54,336,431 | \$ | 49,061,587 | \$ | 45,638,864 | | 3,422,723 | \$ | (3,430,466) | \$ | 40,341,925 | \$ | 58,832 | \$ 54,38 | |
| 7 | May | \$ 54,387,520 | \$ | 50,396,658 | \$ | 43,802,261 | \$ | 6,594,397 | \$ | (3,440,553) | \$ | 41,553,464 | \$ | 60,599 | \$ 57,60 | |
| 8 | June | \$ 57,601,782 | \$ | 49,434,694 | \$ | 46,747,403 | \$ | 2,687,291 | \$ | (4,129,862) | \$ | 42,233,769 | \$ | 61,591 | \$ 56,22 | |
| 9 | July | \$ 56,220,802 | \$ | 53,817,091 | \$ | 50,144,604 | \$ | 3,672,487 | \$ | (4,451,628) | \$ | 41,454,689 | \$ | 60,455 | \$ 55,50 | - |
| 10 | August | \$ 55,502,116 | \$ | 55,301,701 | \$ | 50,148,289 | | 5,153,412 | \$ | (4,546,694) | \$ | 41,435,565 | \$ | 60,427 | \$ 56,10 | |
| 11 | September | \$ 56,169,261 | \$ | 53,507,798 | \$ | 54,077,963 | \$ | (570,165) | \$ | (4,315,858) | \$ | 39,891,740 | \$ | 58,175 | \$ 51,34 | |
| 12 | October | \$ 51,341,413 | \$ | 54,683,113 | \$ | 56,214,832 | | (1,531,719) | \$ | (4,543,142) | \$ | 35,865,707 | \$ | 52,304 | \$ 45,3 | - |
| 13 | November | \$ 45,318,856 | \$ | 51,095,307 | \$ | 51,711,892 | \$ | (616,585) | \$ | (4,111,538) | \$ | 31,893,935 | \$ | 46,512 | \$ 40,63 | |
| 14 | Oct/Nov True-U | | \$ | 305,574 | | | \$ | 305,574 | | | | | \$ | 453 | \$ 40,94 | - |
| 15 | December | \$ 40,943,272 | \$ | 51,366,986 | _ | 51,070,061 | \$ | 296,925 | \$ | (3,951,109) | \$ | 29,043,764 | \$ | 42,355 | \$ 37,33 | 31,443 |
| 16 | | | \$ | 615,475,328 | \$ | 580,223,400 | \$ | 35,251,928 | \$ | (47,821,465) | | | \$ | 669,625 | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | 2019 January | \$ - | \$ | 51,648,125 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 20 | February | \$ - | \$ | 47,864,379 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 21 | March | \$ - | \$ | 51,080,563 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 22 | April | \$ - | \$ | 50,323,814 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 23 | May | \$ - | \$ | 52,972,435 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 24 | OBF Recovery | \$ 1,537,150 | | | | | | | | | | | | | \$ | - |
| 24a | June | \$ - | \$ | 51,526,408 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 25 | July | \$ - | \$ | 55,548,915 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 26 | August | \$ - | \$ | 57,081,299 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 27 | September | \$ - | \$ | 55,229,669 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 28 | October | \$ - | \$ | 56,442,806 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 29 | November | \$ - | \$ | 52,739,545 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 30 | December | \$ - | \$ | 52,867,244 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 31 | | | | | | | | | | | | | | | | |
| | Sources of Data: | | | Sch. B1 Note (3) | | Sch B2 | C | Cols (c)-(d) | | Note (1) | Col | ((b)+((e)+(f))/ (Note 2) | 2)/(k |) | Cols (l (f)+ | o)+(e)+ -(h) |

Composite Federal & State Income Tax Rate 25.75% (j)
Income Tax Factor (1 / 1-tax rate) 1.346801347 (k)

Note (1):

Amounts represent recovery of prior years' RBA balance through the RBA rate adjustment effective June 1, 2017 for the period June 2017 through May 2018 and June 1, 2018 for the period June 2018 through May 2019.

Note (2):

In May 2018, the Company identified an inadvertent transposition error in the DSM adjustment (\$67,965) used to derive Recorded Adjusted Revenues. May 2018 Recorded Adjusted Revenues includes a true-up of -\$135,930 (-\$123,853 net of revenue taxes) to properly state the RBA Balance as of May 2018. The May 2018 balance includes an adjustment of -\$181 related to interest resulting from this correction.

Note (3):

In December 2018, the Company recorded a RBA Target true-up adjustment resulting from the Schofield Generating Station MPIR Order No. 35953, issued 12/14/18 in Docket No. 2017-0213, effective October 1, 2018. The RBA balance includes an adjustment of \$306,027 related to the incremental Target Revenues (\$305,574) and related interest (\$453) to properly state the RBA balance as of December 2018.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

| Line No. | | 1 | Reference (b) | | 20 | ocket No. 010-0080 Amounts (c) | | Docket No. 2016-0328 Amounts (d) | | Docket No. 2016-0328 Amounts (e) | 2 | Oocket No. 2016-0328 Amounts (f) | 2 | Oocket No. 016-0328 Amounts (g) | 20 | ocket No. 016-0328 amounts (h) |
|-------------|---|----------------------------|---|----------------------------|----------------|---|----------------|---|----------------|---|----------------|---|----------------|--|----------------|---|
| | | | . , | | | | | | | | | | | | | |
| | Last Rate Case Annual Electric Rever Less: Holdback of Interim Revenues Less: Customer Benefit Adjustment | nue at Approved Rate I | Note (3), (5), (5a) Note (3) Note (3) | \$000s \$000s \$000s | \$ | 1,765,954 | \$ \$ \$ | 1,581,445 (5,000) (6,000) | \$ \$ \$ | 1,529,709 - - | \$ \$ \$ | 1,529,709 - - | \$ \$ \$ | 1,529,709 - - | \$ \$ \$ | 1,529,709 - - |
| 2 3 4 | Less: Fuel Expense Purchased Power Expense Revenue Taxes on Line 1 to 1b | (8 885% statutory rate | Note (3), (5), (5a) Note (3), (5), (5a) | \$000s \$000s \$000s | \$ \$ \$ | (658,172) (438,707) (156,905) | \$ \$ \$ | (327,609) (466,211) (139,534) | \$ \$ \$ | (327,609) (466,211) (135,915) | \$ \$ \$ | (327,609) (466,211) (135,915) | \$ \$ \$ | (327,609) (466,211) (135,915) | \$ \$ \$ | (327,609) (466,211) (135,915) |
| 5 | Last Rate Order Target Annual Rever | • | Sum Lines 14 | \$000s | \$ | 512,170 | \$ | 637,091 | \$ | 599,974 | \$ | 599,974 | \$ | 599,974 | \$ | 599,974 |
| 6 | Authorized RAM Revenues | | Note (1a) | \$000s | \$ | 101,131 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 7 8 | Less: Revenue Taxes on Line 6 Net RAM Adjustment - Test Y | | Lines 6 + 7 | \$000s \$000s | \$ | (8,986) 92,146 | \$ | | <u>\$</u> | | <u>\$</u> | | <u>\$</u> | - | \$ | |
| 9 | Authorized RAM Revenues | cai +0 | Note (7) | \$000s | \$ | 92,140 | \$ | - | \$ | - | \$ | 13,828 | \$ | 13,828 | \$ | 13,828 |
| 10 | Less: Revenue Taxes on Line 9 | | | \$000s | \$ | - | \$ | _ | \$ | | \$ | (1,229) | \$ | (1,229) | \$ | (1,229) |
| 11 | Net RAM Adjustment - Test Y | ear+1 | Lines 9 + 10 | \$000s | \$ | - | \$ | - | \$ | - | \$ | 12,599 | \$ | 12,599 | \$ | 12,599 |
| 12 13 | Authorized RAM Revenues Less: Revenue Taxes on Line 1 | 2 at 8 885% | Sch A, Line 4 | \$000s \$000s | \$ \$ | - | \$ \$ | - | \$ \$ | - | \$ \$ | - | \$ \$ | - | \$ \$ | - |
| 14 | Net RAM Adjustment - Test Y | | Lines 12 + 13 | \$000s | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | |
| 15 | Authorized MPIR Revenues | | Schedule L | \$000s | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 6,600 | \$ | 8,561 |
| 16 | Less: Revenue Taxes on Line 1 | 5 at 8.885% | Lines 15 + 16 | \$000s | \$ | | \$ | - | \$ | - | <u>\$</u> | - | \$ | (586) | \$ | (761) |
| 17 18 | Net MPIR Adjustment | NILIE CREDITE | | \$000s \$000s | \$ \$ | (16) | \$ \$ | - (16) | \$ \$ | - (16) | \$ \$ | - | \$ \$ | 6,014 | \$ \$ | 7,800 |
| 19 | Less: EARNINGS SHARING REVE Less: Revenue Taxes on Line 1 | | Note (1a) | \$000s \$000s | \$ | (16) 1 | \$ | (16) 1 | \$ | (16) 1 | \$ | - | \$ | - | \$ | - |
| 20 | Net Earnings Sharing Revenue | | Lines 18 + 19 | \$000s | \$ | (14) | \$ | (14) | \$ | (14) | \$ | - | \$ | - | \$ | - |
| 21 | | | Sch A, Line 6 | \$000s | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 22 23 | Less: Revenue Taxes on Line 2 Net Performance Incentive Me | | Lines 21 + 2 | \$000s \$000s | \$ | <u> </u> | \$ | | \$ | <u> </u> | <u>\$</u> | | \$ | <u> </u> | \$ | <u> </u> |
| | | | Sch A, Line 8 | \$000s | \$ | _ | \$ | _ | \$ | _ | \$ | _ | \$ | _ | \$ | _ |
| 25 | Less: Revenue Taxes on Line 2 | | Jon 71, Ellie 6 | \$000s | \$ | | \$ | <u> </u> | \$ | | \$ | <u> </u> | \$ | | \$ | |
| 26 | Net 2017 Test Year Final D&C | Refund | Lines 24 + 25 | \$000s | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| | Add: OBF PROGRAM IMPLEMEN | | Sch A, Line 1a * 1.0975 | \$000s | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| 28 29 | Less: Revenue Taxes on Line 2 Net OBF Program Implementa | | Lines 27 + 28 | \$000s \$000s | \$ | | <u>\$</u> | | <u>\$</u> | - | <u>\$</u> | | \$ | | \$ | |
| 30 | PUC-ORDERED MAJOR OR CAPITAL CREDITS: | | Note (1a) | \$000s | \$ | _ | \$ | _ | \$ | | \$ | | \$ | _ | \$ | |
| 30 | CALITAL CREDITS. | | Note (1a) | 30003 | Ф | | φ | | Φ | | ٠ | | - 3 | | Φ | |
| 31 | C | | | | | | | | | | | | | | | |
| 32 | June 1, 2017 Annualized Rever w/RAM Increase | nues | Col (c), lines (5+8+20+30) | \$000s | \$ | 604,302 | | | | | | | | | | |
| | February 16, 2018 Annualized | Revenues | | | - | | | | | | | | | | | |
| 33 | w/Interim Increase April 13, 2018 Annualized Rev | romuna | Col (d), lines (5+8+20+30) Col (e), lines | \$000s | | | \$ | 637,077 | | | | | | | | |
| 34 | w/2nd Interim Increase | renues | (5+11+20+30) | \$000s | | | | | \$ | 599,960 | | | | | | |
| | June 1, 2018 Annualized Reve | nues | - 4 (2 4) (2 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | | | | | | | | | | | |
| 35 36 | w/RAM Increase June 1, 2018 Annualized Rever | nues | Col (f), lines (5+11+20+30) Col (g), lines | \$000s \$000s | | | | | | | \$ | 612,574 | \$ | 618,587 | | |
| 50 | w/RAM Increase & MPIR ac | | (5+11+17+20+30) | 50003 | | | | | | | | | 9 | 010,507 | | |
| 37 | June 1, 2018 Annualized Reve | | Col (h), lines | \$000s | | | | | | | | | | | \$ | 620,374 |
| 38 | w/RAM Increase & MPIR ac June 1, 2018 Annualized Rever | | (5+11+17+20+30) Col (i), lines | \$000s | | | | | | | | | | | | |
| | w/RAM Increase & MPIR ac | | (5+11+17+20+30) | ***** | | | | | | | | | | | | |
| 39 | June 1, 2019 Annualized Rever w/RAM Increase & MPIR ac | | Col (j), lines (5+14+17 +20+23+26+29+30) | \$000s | | | | | | | | | | | | |
| | W/KAWI increase & WF IK ac | crued 1/1/19 | +20+23+20+29+30) | | 1 | Note (4) | N | Note (4), (6) | | Note (6) | | | | Note (8) | N | lote (8a) |
| 4.1 | | Ionth: | Note (1) | Note (2) | | 2018 | | 2018 | | 2018 | | 2018 | | 2018 | | 2018 |
| 41 42 | January February | | 8.10% 7.26% | 8.19% 7.59% | | 348,948,443 323,503,022 | | \$22,450,132 | | | | | | | | |
| 43 | March | | 8.10% | 8.10% | 9 | -,, | | \$51,603,222 | | | | | | | | |
| 44 | April | | 7.84% | 7.98% | | | | \$20,335,492 | | \$28,726,095 | | | | | | |
| 45 46 | May June | | 8.44% 8.47% | 8.40% 8.07% | | | | | | \$50,396,658 | | \$49,434,694 | | | | |
| 47 | July | | 8.77% | 8.70% | | | | | | | | , , | | \$53,817,090 | | |
| 48 49 | August September | | 9.04% 8.68% | 8.94% 8.65% | | | | | | | | | | \$55,301,700 \$53,507,797 | | |
| 50 | October | | 8.68% 8.78% | 8.84% | | | | | | | | | | / ۱٫۱۶ میروری | S | 54,841,062 |
| 51 | November | | 8.26% | 8.26% | | | | | | | | | | | \$ | 51,242,893 |
| 52 53 | December Total Distributed Target Revenues | | 8.26% 100.00% | 8.28% 100.00% | | 672,451,465 | _ | \$94,388,846 | _ | \$79,122,753 | _ | \$49,434,694 | | 162,626,587 | | 51,366,968 57,450,923 |
| | Total Biblioated Tanget Revenues | | 100.0070 | 100.0070 | | ,,2,,01,,00 | | 47 1,500,010 | | ψ/ <i>></i> ,122,700 | | \$15,151,051 | Ψ | 102,020,007 | Ψ. | 57,150,725 |
| | Footnotes: 1 RBA Tariff Revised July 26, 2011 | to reflect 2011 test year. | | | | | | | | | | | | | | |
| | 1a Transmittal 17-02 filed March 31, | 2017, establishing 2017 | | 017. | | | | | | | | | | | | |
| | RBA Tariff Effective February 16, Test Year 2017 Interim Increase p | | | December 15 | 2017 is | n Docket No. 2 | 016- | 0328: | | | | | | \$35,971 | | \$000s |
| | 4 For the month of the initial implen | nentation (Feb 2018), adju | ast the monthly allocation by the | number of ef | fective of | days in the mor | | | ber (| of days: | | | | 0.46429 | | -2005 |
| | 5 Test Year 2017 2nd Interim Increa 5a Reduction for Tax Act Implementa | | | | | | rda- | on with Ondon M | 25 | 335)- | | | | -\$603 -\$2,143 | | \$000s \$000s |
| | 5a Reduction for Tax Act Implementa 6 For the month of the initial implem | | | | | | | | | | | | | 0.60000 | | φ 0005 |
| | | | rget revenue effective June 1, 201 | | | | | | | - | | | | | | |

- 5a Reduction for 1ax Act Implementation Lag (March 2018 Settlement 1 artif Sheets, Attachment 3, filed March 16, 2018, in accordance with Order No. 35335);

 6 For the month of the initial implementation (April 2018), adjust the monthly allocation by the number of effective days in the month over the total number of days:

 7 Transmittal 18-01 filed May 29, 2018, establishing 2018 target revenue effective June 1, 2018.

 8 MPIR Revenue accrual starting effective July 1, 2018 approved in Order No. 35647, issued August 15, 2018 in Docket No. 2017-0213. Excerpt filed at HECO-WP-L1-003.

 8 MPIR Revenue accrual starting October 1, 2018 approved in Order No. 35953, issued December 14, 2018 in Docket No. 2017-0213. Excerpt filed at HECO-WP-L1-003.

 8 MPIR Revenue accrual starting January 1, 2019 filed in Transmittal 19-01, filed February 7, 2019. Excerpt filed at HECO-WP-L1-003.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

| Line No. | | Reference (b) | | 2 | ocket No. 016-0328 Amounts (i) | 2 | Oocket No. 016-0328 Amounts (j) | 2 | Oncket No. 016-0328 Amounts (k) |
|---------------|--|---|----------------------------|----------------|---|------------------|--|----------------|--|
| | Last Rate Case Annual Electric Revenue at Approved Rate I Less: Holdback of Interim Revenues Less: Customer Benefit Adjustment | Note (3), (5), (5a) Note (3) Note (3) | \$000s \$000s \$000s | \$ \$ \$ | 1,529,709 | \$ \$ \$ | 1,529,709 | s s | 1,529,709 |
| 2 3 4 | Less: Fuel Expense Purchased Power Expense Revenue Taxes on Line 1 to 1b (8.885% statutory rate | Note (3), (5), (5a) Note (3), (5), (5a) | \$000s \$000s \$000s | \$ \$ \$ | (327,609) (466,211) (135,915) | \$ \$ \$ | (327,609) (466,211) (135,915) | \$ \$ \$ | (327,609) (466,211) (135,915) |
| 5 | Last Rate Order Target Annual Revenues | Sum Lines 14 | \$000s | \$ | 599,974 | \$ | 599,974 | \$ | 599,974 |
| 6 7 | Authorized RAM Revenues Less: Revenue Taxes on Line 6 at 8.885% | Note (1a) | \$000s \$000s | \$ | - | \$ | - | \$ | <u>-</u> |
| 8 | Net RAM Adjustment - Test Year +6 | Lines 6 + 7 | \$000s | \$ | - | \$ | - | \$ | - |
| 9 10 11 | Authorized RAM Revenues Less: Revenue Taxes on Line 9 at 8.885% Net RAM Adjustment - Test Year +1 | Note (7) Lines 9 + 10 | \$000s \$000s \$000s | \$ \$ \$ | 13,828 (1,229) 12,599 | \$ _\$ _\$ | <u>-</u> - | \$ \$ \$ | <u>-</u> - |
| 12 | Authorized RAM Revenues | Sch A, Line 4 | \$000s | \$ | - | \$ | 22,938 | \$ | 22,938 |
| 13 14 | Less: Revenue Taxes on Line 12 at 8.885% Net RAM Adjustment - Test Year +2 | Lines 12 + 13 | \$000s \$000s | \$ | - | \$ | (2,038) 20,900 | <u>\$</u> | (2,038) |
| 15 16 | Authorized MPIR Revenues Less: Revenue Taxes on Line 15 at 8.885% | Schedule L | \$000s \$000s | \$ \$ | 19,811 (1,760) | \$ \$ | 19,811 (1,760) | \$ \$ | 19,811 (1,760) |
| 17 | Net MPIR Adjustment | Lines 15 + 16 | \$000s | \$ | 18,051 | \$ | 18,051 | \$ | 18,051 |
| 18 19 | Less: EARNINGS SHARING REVENUE CREDITS Less: Revenue Taxes on Line 18 at 8.885% | Note (1a) | \$000s \$000s | \$ \$ | - | \$ \$ | - | \$ \$ | - |
| 20 | Net Earnings Sharing Revenue Credits | Lines 18 + 19 | \$000s | \$ | - | \$ | - | \$ | |
| | Less: PERFORMANCE INCENTIVE MECHANISM | Sch A, Line 6 | \$000s | \$ | - | \$ | (1,269) | \$ | (1,269) |
| 22 23 | Less: Revenue Taxes on Line 24 at 8.885% Net Performance Incentive Mechanism | Lines 21 + 2 | \$000s \$000s | \$ | | \$ | (1,157) | <u>\$</u> | (1,157) |
| | Less: 2017 TEST YEAR FINAL D&O REFUND | Sch A, Line 8 | \$000s | \$ | _ | \$ | (48) | \$ | (48) |
| 25 | Less: Revenue Taxes on Line 27 at 8.885% | | \$000s | \$ | - | \$ | 4 | \$ | 4 |
| 26 | Net 2017 Test Year Final D&O Refund | Lines 24 + 25 | \$000s | \$ | - | \$ | (44) | \$ | (44) |
| 27 | Add: OBF PROGRAM IMPLEMENTATION COSTS | Sch A, Line 1a * 1.0975 | \$000s | \$ | - | \$ | 844 | \$ | 844 |
| 28 29 | Less: Revenue Taxes on Line 21 at 8.885% Net OBF Program Implementation Costs | Lines 27 + 28 | \$000s \$000s | \$ | | <u>\$</u> | (75) 769 | <u>\$</u> | (75) 769 |
| | PUC-ORDERED MAJOR OR BASELINE | | \$ 0000 | Ψ. | | • | ,,, | | 702 |
| 30 | CAPITAL CREDITS: | Note (1a) | \$000s | \$ | - | \$ | - | \$ | - |
| 31 | Total Annual Target Revenues | | | | | | | | |
| 32 | June 1, 2017 Annualized Revenues w/RAM Increase | Col (c), lines (5+8+20+30) | \$000s | | | | | | |
| 33 | February 16, 2018 Annualized Revenues | C-1(4) 1: (5:0:20:20) | \$000s | | | | | | |
| | w/Interim Increase April 13, 2018 Annualized Revenues | Col (d), lines (5+8+20+30) Col (e), lines | | | | | | | |
| 34 | w/2nd Interim Increase June 1, 2018 Annualized Revenues | (5+11+20+30) | \$000s | | | | | | |
| 35 36 | w/RAM Increase June 1, 2018 Annualized Revenues | Col (f), lines (5+11+20+30) Col (g), lines | \$000s \$000s | | | | | | |
| | w/RAM Increase & MPIR accrued 7/1/18 | (5+11+17+20+30) | | | | | | | |
| 37 | June 1, 2018 Annualized Revenues w/RAM Increase & MPIR accrued 10/1/18 | Col (h), lines (5+11+17+20+30) | \$000s | | | | | | |
| 38 | June 1, 2018 Annualized Revenues | Col (i), lines | \$000s | \$ | 630,624 | | | | |
| 39 | w/RAM Increase & MPIR accrued 1/1/19 June 1, 2019 Annualized Revenues | (5+11+17+20+30) Col (j), lines (5+14+17 | \$000s | | | \$ | 638,493 | \$ | 638,493 |
| | w/RAM Increase & MPIR accrued 1/1/19 | +20+23+26+29+30) | | 1 | Note (8b) | 1 | Note (8b) | 1 | Note (8b) |
| 40 | Distribution of Target Revenues by Month: | Note (1) | Note (2) | | 2019 | | 2019 | | 2020 |
| 41 42 | January February | 8.10% 7.26% | 8.19% 7.59% | | \$51,648,125 \$47,864,379 | | | | \$52,292,600 \$48,461,640 |
| 43 | March | 8.10% | 8.10% | | \$51,080,563 | | | | \$51,717,956 |
| 44 | April | 7.84% | 7.98% | | \$50,323,814 | | | | \$50,951,764 |
| 45 | May | 8.44% | 8.40% | | \$52,972,435 | | | | \$53,633,436 |
| 46 | June | 8.47% | 8.07% | | | | \$51,526,408 | | |
| 47 | July | 8.77% | 8.70% | | | | \$55,548,915 | | |
| 48 49 | August September | 9.04% 8.68% | 8.94% | | | | \$57,081,299 | | |
| 50 | October | 8.78% | 8.65% 8.84% | | | | \$55,229,669 \$56,442,806 | | |
| 51 | November | 8.26% | 8.26% | | | | \$52,739,545 | | |
| 52 | December | 8.26% | 8.28% | | | | \$52,867,244 | | |
| | Total Distributed Target Revenues | 100.00% | 100.00% | \$: | 253,889,316 | \$ | 381,435,886 | \$. | 257,057,396 |
| | | | | | | | | | |

HAWAIIAN ELECTRIC COMPANY DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RECORDED ADJUSTED REVENUES

| Marie Name | Line No. | Description | January 2018 | February 2018 | March 2018 | April 2018 | May 2018 | June 2018 | July 2018 | August 2018 | September 2018 | October 2018 | November 2018 | December 2018 | Total |
|--|----------------|---|--------------|-----------------|--------------|----------------|--------------|--------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|
| Common | | (a) | | | | | | | | | • | | | | |
| Second content | | | | | | | | | | | | | | | |
| Second | 1 | | | | | | | | | | | | | | |
| 1 | | | (1,218,709) | (1,201,960) | (1,194,318) | | | (1,265,642) | (1,382,251) | (1,590,817) | (1,573,352) | (1,655,808) | (1,506,750) | (1,423,869) | |
| Part | | | - | - | - | 58,286 | 67,403 | - | - | - | - | - | - | - | |
| Mathematical Properties Mathematical Pro | | City & County traffic signal revenue adjustments | | - | (10,230) | - | - | (10,310) | - | - | (10,911) | - | - | (11,330) | (42,781) |
| Progress | 5 = sum 1-4 | BILLED REVENUES | 130,148,696 | 133,579,710 | 137,327,827 | 138,738,278 | 135,449,578 | 146,978,152 | 154,530,702 | 164,617,398 | 165,190,410 | 178,063,588 | 164,085,973 | 158,476,155 | 1,807,186,467 |
| Progress | | UNBILLED REVENUES | | | | | | | | | | | | | |
| Personal contribuility of the process of the proc | 6 | | 78,387,084 | 70,879,493 | 70,665,761 | 70,377,168 | 76,196,920 | 80,293,995 | 90,404,928 | 92,787,255 | 95,015,547 | 90,754,173 | 87,978,477 | 88.120.287 | 991.861.088 |
| | 7 | | (77,212,019) | (78,387,084) | | | | | (80,293,995) | | | | (90,754,173) | (87,978,477) | (980,952,820) |
| Semi-part Semi | = 6+7 | | | | | | | | | | | | | | |
| Many | | ı | , | (, , , , , , , | , | (,, | | ,, | ., ., ., | , , , , , | , ,,,, | () - ,- , | (, , , | | |
| Many | 9 | Recovery of 12-31-16 RBA balance through RBA Rate Adjustment beginning 6-1-17 | (3.698.239) | (4 594 033) | (3.671.308) | (3.764.985) | (3.776.056) | | | | | | | | (19 504 621) HECO-WP-B |
| Mathematic Marcine M | | | (0,000,000) | (1,000) | (0,0,1,000) | (=,, = ,,, ==) | | (4 522 592) | (4 995 725) | (4 000 061) | (4.736.715) | (4.096.162) | (4.512.471) | (4 226 209) | |
| Maria Professional Sections Mari | | | 1 259 | 1 127 | 1 259 | 1 217 | | | | (4,550,001) | (4,730,713) | (4,760,103) | (4,512,471) | | |
| Control From Vernice Reference 1908 1909 19 | | | , | | | | 1,510 | - | | - | - | - | - | | |
| Many Marche Many Marche Many Marche Many Marche Many Marche Ma | | | - | - | - | - | - | - | | - | - | - | - | (331,8/1) | |
| Second of Excellange Gale | | | 2 270 200 | 1 000 100 | 2.051.000 | £ 029 000 | (1.609.200) | (2.092.900) | | 2 020 500 | (1.910.600) | 1 420 100 | 2 000 000 | 4 505 500 | |
| March of Process | | | | | | | | | | | | | | | |
| 18 Section 18 18 18 18 18 18 18 1 | | | | | | | | | | | | | | | |
| Section Control Cont | | | | | | | | | | | | | | | |
| Marka conson BRAC recoms 1,000 1 | | | | | | | | | | | | | | | |
| 1. 1. 1. 1. 1. 1. 1. 1. | | | (55,1/2) | | | | | | | | | | | | |
| Composition | | | (2.265.62.0 | | | | | | | | | | | | |
| Control of the process transform of the proc | | | (2,265,026) | (2,099,090) | | | | 178,602 | 178,602 | 1/8,602 | 1/8,602 | 1/8,602 | 178,602 | | |
| May now provenue taxes | | | - caa a | - | | | | 2 (07 20) | 2 (52 105 | - 162 415 | (570 157 | (1.521.515) | (616.505) | | |
| | | | | | | | | | | | | | | | |
| | 23 | RBA gross up for revenue taxes | 495,099 | 538,563 | 510,724 | 333,763 | 643,046 | 262,048 | 358,119 | 502,530 | (55,599) | (149,364) | (60,126) | 58,/52 | 3,437,555 |
| Part | n 9-23 | Miscellaneous unbilled accruals | 3,954,997 | (1,990,056) | 2,946,704 | 2,446,176 | 439,741 | (4,597,861) | (722,372) | (103,992) | (12,498,748) | (12,273,990) | (5,109,091) | (1,059,668) | (28,568,160) |
| Billed Adjustments to Determine Adjusted Recents for BRA: 7 | = 8+24 | UNBILLED REVENUES | 5,130,062 | (9,497,647) | 2,732,972 | 2,157,583 | 6,259,493 | (500,786) | 9,388,561 | 2,278,335 | (10,270,456) | (16,535,364) | (7,884,787) | (917,858) | (17,659,892) |
| Adl back C&C unmered revenue (seel, escription (excl. escription | = 5+25 | TOTAL REVENUES PER G/L (PUC Monthly Financial Report) | 135,278,758 | 124,082,063 | 140,060,798 | 140,895,862 | 141,709,071 | 146,477,366 | 163,919,264 | 166,895,733 | 154,919,954 | 161,528,223 | 156,201,186 | 157,558,297 | 1,789,526,575 |
| Add hash displasmint as exemption (excl. despinative ascenning for taxes on PBF surdure) 738 738 739 730 740 740 751 734 735 | | Billed Adjustments to Determine Adjusted Revenues for RBA: | | | | | | | | | | | | | |
| Part | 27 | Add back C&C unmetered revenue | - | - | 10,230 | - | - | 10,310 | - | - | 10,911 | - | - | 11,330 | 42,781 |
| Part | 28 | Add back diplomatic tax exemption (excl. exempted rev taxes on PBF surcharge) | 323 | 312 | 337 | 297 | 307 | 17 | 742 | 351 | 334 | 332 | - | 581 | 3,933 |
| Remove REIP recents 1,000 | 29 | Remove ECAC revenues | 7,436,356 | 4,121,689 | 1,715,503 | 2,282,011 | (962,632) | (6,550,979) | (7,637,339) | (6,113,486) | (13,243,977) | (25,122,448) | (25,453,166) | (28,257,616) | (97,786,084) |
| 28. Remove DSM revenues taxs of BFF revenues tax of BFF revenues t | 30 | Remove PPAC revenues | (13,915,656) | (14,192,358) | (14,513,240) | (14,719,197) | (12,339,728) | (11,177,856) | (13,913,483) | (18,062,250) | (19,621,783) | (21,968,249) | (18,435,053) | (15,583,999) | (188,442,852) |
| 8. Remove revenues tous of PBF revenues 8. Remove revenues tous of PBF revenues 8. Remove revenues tous of billed revenues 8. (10,48,411) (10,93,78) (11,03,28) (11,03,28) (11,04,28) (11,0 | 31 | Remove REIP revenues | - | - | - | - | - | 9 | (9) | - | - | - | - | - | - |
| Remove Solar Sour revenes taxes on billed revenes taxes on billed revenes taxes on billed revenes taxes) (10,948,94) (10,921,985) (11,052,096) (11,052,096) (14,052,056) (14,047,04) (12,200,056) (1,754,796) (1,613,104) | 32 | Remove DSM revenues | (357,105) | (321,161) | (68,674) | (67,965) | 275,965 | 150,334 | 153,540 | 124,173 | 66,280 | 70,534 | 24,118 | (25,119) | 24,920 |
| Second S | 33 | Remove revenue taxes of PBF revenues | (83,120) | (81,978) | (81,456) | (82,596) | (80,682) | (86,323) | (94,272) | (108,499) | (107,308) | (112,932) | (102,768) | (97,111) | (1,119,045) |
| Remove base file (digisted for revenue taxes) (45,592,64) (45,592,64) (44,594,526) (47,711,41) (44,832,955) (47,622,032) (48,663,64) (22,609,945) (16,14714) (30,452,67) (27,651,766) (20,983,75) (500,704,737) (30,704,734) (30,704, | 34 | Remove Solar Saver revenues | - 1 | 2 | - 1 | 3,675 | 4,250 | (4) | 5 | - 1 | - 1 | - | | - | 7,928 |
| Accordance Acc | 35 | Remove revenue taxes on billed revenues | (10,948,941) | (10,937,987) | (11,052,098) | (11,208,828) | (10,870,536) | (11,490,407) | (11,820,594) | (12,479,665) | (11,754,399) | (11,633,204) | (10,672,582) | (10,175,477) | (135,044,718) |
| 38 Oher operating revenue - EV-U revenue net of revenue taxes | | Remove base fuel (adjusted for revenue taxes) | | | | | | | | | | | | | |
| 38 Oher operating revenue - EV-U revenue net of revenue taxes | 37 | Remove power purchase energy (adjusted for revenue taxes) | (19,235,019) | (19,209,918) | (18,978,535) | (19,285,245) | (18,914,631) | (20,091,318) | (20,530,752) | (22,048,435) | (23,218,962) | (27,055,291) | (24,735,328) | (23,283,155) | (256,586,589) |
| 9 Other operating revenue - SMNP revenue net of revenue taxes 10,372 10,091 10,722 10,091 10,723 10,753 10,753 10,868 11,357 11,803 12,350 12,566 12,900 13,235 13,754 11,803 12,350 12,566 12,900 13,235 13,754 11,803 12,350 12,356 12,350 12,356 12, | | | | | | | | | | | | | | | |
| Remove EXM ferfund accural & reversal (1,258) (1,127) (1,258) (1,127) (1,258) (1,127) (1,258) (1,127) (1,258) (1,217) (1,258) (1,217) (1,258) (1,217) (1,258) (1,217) (1,258) (1,217) (1,258) (1,217) (1,258) (1,217) (1,258) (1,217) (1,258) (1,217) (1,258) (1,217) (1,258) (1,217) (1,258) (1,217) (1,258) (1,217) (1,258) (1,217) (1,258) (1,217) (1,258) (1,217) (1,258) (1,217) (1,258) (1,217) (1,217) (1,217) (1,218) (1,217) (1,218) (1,217) (1,218) (1,217) (1,218) (1,217) (1,218) (1,217) (1,218) (1,217) (1,218) (1,217) (1,218) (1,217) (1,218) (1,217) (1,218) (1,217) (1,218) (1,217) (1,218) (1,217) (1,218) (1,217) (1,218) (1,217) (1,218) (1,217) (1,218) (1,217) (1,218) (1,218) (1,217) (1,218) (1,218) (1,217) (1,218) (1,218) (1,217) (1,218) (1,2 | 39 | | 10,372 | 10,091 | 10,724 | 10,775 | 10,473 | 10,868 | 11,357 | 11,803 | 12,350 | 12,566 | 12,930 | 13,235 | 137,544 |
| Marche M | | Unbilled Adjustments to Determine Adjusted Revenues for RRA | | | | | | | | | | | | | |
| Remove accrual of Ferformance Incentive Mechanism Sile No. S | 40 | | (1.258) | (1.127) | (1.258) | (1.217) | (1.310) | _ | - | | - | - | _ | - | (6.170) |
| Part | | | (1,236) | | | | | | | | | - | | 531 871 | |
| Marche CAC revenues | | | - | - | - | - | - | - | | - | - | - | - | | |
| 44 Remove PRAC accrual (3,008,600) (320,167) (521,733) (2,609,634) (4,341,634) (5,726,234) (825,168) (1,876,866) (1,963,234) (1,277,468) (1,737,499) (3,322,999) (2,628,698) (4,527,428) (4,527,428) (4,527,4363) (4, | | | (1.486.257) | (2.862.579) | 303.420 | 280 065 | (3.957.810) | (1.816.019) | | 1 265 450 | (10.925.845) | 1.035.080 | (2.713.315) | (892.545) | |
| 45 Remove PPAC revenues (362) 790,980 (83,923) (190,441) 1,925,917 (585,389) (3,208,412) (1,255,537) (926,779) 502,842 (2,437,748 175,715 (249,795) (249,795) (1,101) | | | | | | | | | | | | | | | |
| 46 Remove DSM revenues 13 123 146,685 67.90 75.567 4.644 1.09 10.508 (54.195) (1.101) (1.358) (2.0730) (2.89.43) 200.481 48 Remove excess DSM revenues 3 3172 49.801 (1.488) (163.556 (164.655) (172.002) (184.046) (80.370) (75.572) (79.509) 17.328 (1.51.21) (81.5796) (1.64.056 | | | | | | | | | | | | | | | |
| 47 Remove DSM revenues 48 Remove excess DSM revenues 49 Remove excess DSM revenues 49 Remove excess DSM revenues 49 Remove excess DSM revenues 40 Remove excess DSM revenues 40 Remove excess DSM revenues 40 Remove excess DSM revenues 41 Remove excess DSM revenues 41 Remove excess DSM revenues 42 Remove EAR Reform Act adjustment 45 Remove EAR Reform Act adjustment 46 Remove EAR Reform Act adjustment 47 Remove EAR Reform Act adjustment 48 Remove EAR Reform Act adjustment 49 Remove EAR Reform Act adjustment 40 Remove EAR EAR EAR Reform Act adjustment 40 Remove EAR | | | | | | | | | | | | | | | |
| 48 Remove excess DRM revenues 49 Remove excess DRM revenues 50 Remove excess DRM revenues 51 Part of the provided adjustment of t | | | | | | | | | | | | | | | |
| 49 Remove Cax Reform Act adjustment 2,265,026 2,099,090 1,309,124 649,271 (178,602) (1 | | | | | | | | | | | | | | | |
| 50 Remove Tax Reform Act adjustment 2,265,02 2,099,09 1,309,124 649,271 (178,602 (178,602) (178, | | | 33,1/2 | | | | | | | | | | | | |
| 51 Remove Other unbilled adjustments | | | 0.000.00 | | | | | | | | | | | | |
| 52 Remove RBA accruals (5,077,211) (5,522,935) (5,237,442) (3,422,723) (6,594,397) (2,687,291) (3,672,487) (5,153,412) 570,165 (1,531,719) 616,585 (602,499) (352,512,985) 618,785 (402,499) (352,512,985) 618,785 (402,499) (352,512,985) 618,785 (402,498) (| | | | 2,099,090 | | | | (178,602) | (178,602) | (178,602) | | (178,602) | (178,602) | (178,602) | 4,893,695 |
| 53 Remove RBA gross up for revenue taxes (495,099) (538,563) (510,724) (333,763) (643,046) (262,048) (358,119) (502,530) 55,599 (149,364) 60,126 (58,752) (3,437,555) (349,355) | | | | | | | | - | | - | | - | - | - | - (25.251.220) |
| 54 Remove revenue taxes on unbilled revenues 356,259 1,246,258 304,765 345,403 185,661 251,910 (224,632) 235,632 1,276,077 685,040 673,880 438,951 5,775,204 673,800 6 | | | | | | | | | | | | | | | |
| 55 Remove base fuel (adjusted for revenue taxes) 56 Remove purchase energy (adjusted for revenue taxes) 57 Remove power purchase energy (adjusted for revenue taxes) 58 Remove power purchase energy (adjusted for revenue taxes) 59 Remove power purchase energy (adjusted for revenue taxes) 50 Remove power purchase energy (adjusted for revenue taxes) 51 Remove power purchase energy (adjusted for revenue taxes) 51 Remove power purchase energy (adjusted for revenue taxes) 51 Remove power purchase energy (adjusted for revenue taxes) 52 Remove power purchase energy (adjusted for revenue taxes) 53 Remove power purchase energy (adjusted for revenue taxes) 54 Remove base fuel (adjusted for revenue taxes) 55 Remove power purchase energy (adjusted for revenue taxes) 55 Remove power purchase energy (adjusted for revenue taxes) 56 Remove power purchase energy (adjusted for revenue taxes) 57 Remove power purchase energy (adjusted for revenue taxes) 58 Remove power purchase energy (adjusted for revenue taxes) 59 Remove power purchase energy (adjusted for revenue taxes) 50 Remove power purchase energy (adjusted for revenue taxes) 50 Remove power purchase energy (adjusted for revenue taxes) 50 Remove power purchase energy (adjusted for revenue taxes) 50 Remove power purchase energy (adjusted for revenue taxes) 50 Remove power purchase energy (adjusted for revenue taxes) 51 Remove power purchase energy (adjusted for revenue taxes) 51 Remove power purchase energy (adjusted for revenue taxes) 51 Remove power purchase energy (adjusted for revenue taxes) 51 Remove power purchase energy (adjusted for revenue taxes) 51 Remove power purchase energy (adjusted for revenue taxes) 51 Remove power purchase energy (adjusted for revenue taxes) 51 Remove power purchase energy (adjusted for revenue taxes) 51 Remove power purchase energy (adjusted for revenue taxes) 51 Remove power purchase energy (adjusted for revenue taxes) 51 Remove power purchase energy (adjusted for revenue taxes) 51 Remove power purchase energy (adjusted for revenue taxes) 52 | | | | | | | | | | | | | | | |
| 56 Remove purchase energy (adjusted for revenue taxes) 15,37 1,711,252 28,674 (233,410) (606,045) (240,013) (1,247,567) (334,173) (1,940,840) 576,447 727,941 242,125 (1,300,072) 57 = 1 | | | | | | | | | | | | | | | |
| 57 = n 27-56 Total billed and unbilled adjustments to determine adjusted revenues for RBA (91,407,526) (83,651,844) (93,695,018) (95,256,998) (97,906,810) (99,729,963) (113,774,660) (116,747,444) (100,841,991) (105,313,391) (104,489,294) (106,488,236) (1,209,303,175) | | | | | | | | | | | | | | | |
| 72-56 Total billed and unbilled adjustments to determine adjusted revenues for RBA (91,407,526) (83,651,844) (93,695,018) (95,256,998) (97,906,810) (99,729,963) (113,774,660) (116,747,444) (100,841,991) (105,313,391) (104,489,294) (106,488,236) (1,209,303,175) | 56 | Remove power purchase energy (adjusted for revenue taxes) | 15,537 | 1,711,252 | 28,674 | (233,410) | (606,045) | (240,013) | (1,247,567) | (334,173) | (1,940,840) | 576,447 | 727,941 | 242,125 | (1,300,072) |
| | 57 = | | | | | | | | | | | | | | |
| = 26+57 RECORDED ADJUSTED REVENUES FOR RRA DETERMINATION 43.871.232 40.430.219 46.365.780 45.638.864 43.802.261 46.747.403 50.148.289 54.077.963 56.714.832 51.711.892 51.070.061 580.223.400 Seb. D | n 27-56 | Total billed and unbilled adjustments to determine adjusted revenues for RBA | (91,407,526) | (83,651,844) | (93,695,018) | (95,256,998) | (97,906,810) | (99,729,963) | (113,774,660) | (116,747,444) | (100,841,991) | (105,313,391) | (104,489,294) | (106,488,236) | (1,209,303,175) |
| | = 26+57 | RECORDED ADJUSTED REVENUES FOR RBA DETERMINATION | 43,871,232 | 40,430,219 | 46,365,780 | 45,638,864 | 43,802,261 | 46,747,403 | 50,144,604 | 50,148,289 | 54,077,963 | 56,214,832 | 51,711,892 | 51,070,061 | 580,223,400 Sch B |

Note: Amounts may not add exactly due to rounding.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF O&M RAM ADJUSTMENT (\$ in Thousands)

| | = | <u>DETERMINATIO</u> | | Thousands | | | <u> </u> | | | |
|----------|---|--|-------------------------------------|---------------|---|------|--|--|-----------|---|
| Line No. | Decryption | Reference | Docket No. 2016-0328 Approved | | Footnote 4 Previously Approved RAM | to | &M Subject Escalation ol (c) + (d) | Net Inflation Indices Footnote 2 | Ac | 2019 &M RAM ljustment bl (e) * (f) |
| | (a) | (b) | | (c) | (d) | (e) | | (f) | | (g) |
| 1 | Base BU Labor Expenses | Schedule C1 | \$ | 47,048 | | \$ | 47,048 | 4.19% | \$ | 1,973 |
| 2 | Base Non-Labor Expense | Schedule C2 | \$ | 134,734 | | \$ | 134,734 | 4.24% | \$ | 5,718 |
| 3 | Payroll Taxes | Footnote 1 | \$ | 3,943 | | \$ | 3,943 | 4.19% | \$ | 165 |
| 4 | Subtotal Expense Increase - RAM | Adjustment before | e rev | enue taxes | | | | | \$ | 7,856 |
| 5 | Revenue Tax Factor (Footnote 3) | | | | | | | | | 1.0975 |
| 6 | O&M RAM (SubTotal Expenses | x Rev Tax Factor) | | | | | | | \$ | 8,622 |
|] | Footnotes: 1: Payroll Taxes per Stipulated Se Exhibit 2C, page 6, approve Less: Portion of payroll taxes r Payroll Taxes related to Bargain | ed in Order No. 35: elated to non-BU la | 545, | filed June 22 | 2, 2018. | 2016 | 5-0328, | \$ 9,342 \$ (5,399) \$ 3,943 | - | o sen m |
| | ^A See Schedule C1 for calcu | lation of percentag | e rela | ated to non-l | BU labor. | | | | | |
| | 2: Escalation Rates Labor: | | | 2018 | 2019 | | | | | |
| | Bargaining Unit Wage Increase | se | | 2.67% | 3.00% | (Se | e HECO-WI | P-C-001) | | |
| | Less: Labor Productivity Offs | et | | 0.76% | 0.76% | • • | | D&O in Docket l August 31, 2010 | No. 20 | 008- 0274, |
| | Labor Cost Escalation Rate | | | 1.91% | 2.24% | | | | | |

| Bargaining Unit Wage Increase | 2.67% | 3.00% | (See HECO-WP-C-001) |
|---|-----------|--------|--|
| Less: Labor Productivity Offset | 0.76% | 0.76% | Approved in Final D&O in Docket No. 2008- 02 page 51, filed on August 31, 2010 |
| Labor Cost Escalation Rate | 1.91% | 2.24% | page on, med on magazion, 2010 |
| Calculation of 2018 Compounded Labor Cost Escalat | ion | | |
| 2018 Labor Cost Escalation | | 1.0191 | A (2018 labor escalation plus 1) |
| 2019 Labor Cost Escalation | | 1.0224 | B (2019 labor escalation plus 1) |
| 2018-2019 Compounded Labor Cost Escalation | _ | 1.0419 | C = A * B |
| 2018-2019 Compounded Labor Cost % | | 0.0419 | D = C - 1 |
| Non-Labor: | 2018 | 2019 | |
| GDP Price Index | 2.10% | 2.10% | (See HECO-WP-C-002) |
| Calculation of 2018 Compounded Non-Labor Cost Es | scalation | | |
| 2018 Non-Labor Cost Escalation | | 1.0210 | A (2018 non-labor escalation plus 1) |
| 2019 Non-Labor Cost Escalation | | 1.0210 | B (2019 non-labor escalation plus 1) |
| 2018-2019 Compounded Non-Labor Cost Escalation | n | 1.0424 | C = A * B |
| 2018-2019 Compounded Non-Labor Cost % | | 0.0424 | D = C - 1 |
| 3: Computation of Revenue Tax Factor | | | |
| Public Service Tax Rate | 0.05885 | | |
| PUC Fees Rate | 0.00500 | | Revenue Tax Factor |
| Franchise Tax Rate | 0.02500 | | = 1 / (1 - Total Revenue Tax Rate) |
| Total Revenue Tax Rate | 0.08885 | | 1.0975 |

^{4:} Column d "Previously Approved RAM" is not used as the labor and non-labor escalation is accomplished through the use of a compounded escalation rate in column f, as shown in footnote 2.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKSHEET RATE ADJUSTMENT MECHANISM SUMMARY OF OPERATIONS AND MAINTENANCE LABOR AND NON-LABOR EXPENSE

BY BLOCK OF ACCOUNTS Interim D&O - Docket No. 2016-0328 (\$ in Thousands)

| | Foo | tnote 1 | | Footnote 2 | |
|--|-----------------|--------------|----------------------|------------|----------|
| | (a) | (b) | (c)=(a)+(b) TOTAL | (d) | (e) |
| DESCRIPTION | <u>BU LABOR</u> | NON-BU LABOR | <u>LABOR</u> | NON-LABOR | TOTAL |
| Production | 21,744 | 13,212 | 34,956 | 44,350 | 79,306 |
| Transmission | 2,420 | 2,933 | 5,353 | 10,454 | 15,807 |
| Distribution | 12,086 | 7,321 | 19,407 | 27,418 | 46,825 |
| Customer Accounts | 8,258 | 3,618 | 11,876 | 8,478 | 20,354 |
| Allowance for Uncoll Accounts | - | - | - | 732 | 732 |
| Customer Service | 134 | 5,582 | 5,716 | 9,936 | 15,652 |
| Administrative & General | 2,406 | 31,769 | 34,175 | 85,583 | 119,758 |
| Customer Benefit Adjustment (Footnote 3) | - | - | - | (10,023) | (10,023) |
| Operation and Maintenance | 47,048 | 64,435 | 111,483 | 176,928 | 288,411 |
| - | To Sch C | | | To Sch C2 | X |
| Percentage of Total O&M Labor * amounts may not add due to rounding | 42.20% | 57.79% | 100% | | |

Footnotes:

1 SOURCE: 2017 test year breakdown of BU and non-BU labor obtained from UI Planner Budget files.

2 O&M breakdown below includes fuel and purchase power expenses consistent with the presentation in the Results of Operations.

| | | Footnote 2a | | Footnote 2b | | |
|---|---------|-------------|-----------|-------------|------------|--|
| <u> </u> | | | | ADJUST- | STIPULATED | |
| | LABOR | NON-LABOR | TOTAL | MENT | SETTLEMENT | |
| FUEL | - | 327,609 | 327,609 | | 327,609 | |
| PURCHASE POWER | - | 466,211 | 466,211 | | 466,211 | |
| PRODUCTION | 34,956 | 44,350 | 79,306 | | 79,306 | |
| TRANSMISSION | 5,354 | 10,454 | 15,808 | | 15,808 | |
| DISTRIBUTION | 19,407 | 27,418 | 46,825 | | 46,825 | |
| CUSTOMER ACCOUNTS | 11,876 | 8,478 | 20,354 | | 20,354 | |
| UNCOLLECTIBLE ACCOUNTS | - | 732 | 732 | | 732 | |
| CUSTOMER SERVICE | 5,715 | 9,936 | 15,651 | | 15,651 | |
| ADMIN & GENERAL | 34,265 | 85,945 | 120,210 | (452) | 119,758 | |
| CUSTOMER BENEFIT ADJUSTMENTS | - | - | - | (10,023) | (10,023) | |
| TOTAL | 111,573 | 981,133 | 1,092,706 | (10,475) | 1,082,231 | |
| TOTAL O&M EXPENSE (Excl Fuel & Purch Po | 111,573 | 187,313 | 298,886 | (10,475) | 288,411 | |

- 2a See Order No. 35280, For Approval of General Rate Case and Revised Schedules/Rules, filed on February 9, 2018, in which the Commmission approved the revised schedules or operations and tariff sheets filed January 19, 2018, Exhibit A, Page 1 of 4.
 See Docket No. 2016-0328 Hawaiian Electric 2017 Test Year Rate Case Revised Schedules Resulting from Interim Decision and Order No. 35100 as modified by Order No. 35229 and Order No. 35220, filed January 19, 2018, Exhibit 2, Attachment 1, Page 1 for Labor/Non-Labor breakdown.
- 2b See Order No. 35335, For Approval of General Rate Case and Revised Schedules/Rules, filed on March 9, 2018, in which the Commmission accepted the Parties' Stipulated Settlment on Remaining Issues filed March 5, 2018, Exhibit 2C, Page 1 of 13.
- 3 Customer Benefit Adjustments identified in the Results of Operations have been included as a reduction to O&M non-labor subject to escalation. See Order No. 35545, For Approval of General Rate Case and Revised Schedules/Rules, Appendix A, page 1 of 4, filed on June 22, 2018.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK

Non-Labor Exclusion Adjustment for O&M RAM

(\$ thousands)

| Line No. | Decription | Amount | Reference |
|----------|---|---------|-------------------------------------|
| | (a) | (b) | (c) |
| 1 | Pension Expense | 73,940 | Note 1 |
| 2 | • | | |
| 3 | | | |
| 4 | OPEB Expense | (470) | Note 1 |
| 5 | | | |
| 6 | | | |
| 7 | Total before amounts transferred | 73,470 | |
| 8 | | | |
| 9 | O&M % | 57.43% | See Parties' Stipulated Settlement |
| 10 | (1- transfer rate of 42.57%) | | Letter, filed November 15, 2017, in |
| 11 | | | Docket No. 2016-0328, HECO T-16 |
| 12 | | | Attachment 4, page 1 |
| 13 | Adjustment to Non-Labor O&M Expense | | |
| 14 | for O&M RAM base | 42,194 | |
| 15 | | | |
| 16 | N. I.I. COMP. | 156.000 | |
| 17 | Non-Labor O&M Expense per Interim D&O | 176,928 | Schedule C1 |
| 18 | | | |
| 19 | N. J. L. L. O. O. M. F D f. | | |
| 20 | Non-Labor O&M Expense Base for O&M RAM base | 124 724 | Sahadula C |
| 21 | O&IVI RAIVI Dase | 134,734 | Schedule C |

Note 1: See Parties' Stipulated Settlement Letter, filed November 15, 2017 in Docket No. 2016-0328, Exhibit 1, page 63 for the summary of the pension and OPEB cost the Parties agreed to. In Parties' Stipulated Settlement Letter on Remaining Issues, filed March 5, 2018 in Docket No. 2016-0328, Exhibit 1, page 4, amortization of the excess pension contribution from the test year was reduced to zero. Approved in Final Decision and Order No. 35545, filed on June 22, 2018.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RATE BASE RAM ADJUSTMENT - RETURN ON INVESTMENT

| Line No. | Description (a) | | OUNTS IN USANDS (b) | PERCENT OF TOTAL (c) | COST RATE (d) | POST TAX WEIGHTED EARNINGS REQMTS (e) | INCOME TAX FACTOR (Note 1) (f) | PRETAX WEIGHTED EARNINGS REQMTS | |
|-----------------------|--|----------|--|---|---|---|--|---|--|
| 1 | PUC APPROVED CAPITAL STRUCTURE & COSTS (Note 2): | | | | | | | | |
| 2 3 4 5 6 | Short-Term Debt Long-Term Debt Hybrid Securities Preferred Stock Common Equity | \$ | 27,770 928,748 28,651 21,137 1,339,335 | 1.18% 39.59% 1.22% 0.90% 57.10% | 1.75% 5.03% 7.19% 5.37% 9.50% | 0.02% 1.99% 0.09% 0.05% 5.42% | 1.000000 1.000000 1.000000 1.346835 1.346835 | 0.02% 1.99% 0.09% 0.07% 7.31% | |
| 7 | Total Capitalization | \$ 2 | 2,345,641 | 100.00% | | 7.57% | | 9.47% | |
| 8 | RAM CHANGE IN RATE BASE | \$000 | (From Scho | edule D1) | | | | \$ 109,457 | |
| 9 | PRETAX RATE OF RETURN (Lin | ne 7, Co | olg) | | | | • | 9.47% | |
| 10 | PRETAX RETURN REQUIREME | ENT | | | | | | \$ 10,365.5 | |
| 11 | REVENUE TAX FACTOR (1/(1-8.885%)) | | | | | | | | |
| 12 | RATE BASE RAM - RETURN ON | N INVE | STMENT \$0 | 000 | | | | \$ 11,376.2 To Sch A1 | |

Footnotes:

1 Composite Federal & State Income Tax Rate 25.75% See HECO-WP-F-001 Income Tax Factor (1 / 1-tax rate) 1.346835

² See Order No. 35335, For Approval of General Rate Case and Revised Schedules/Rules, filed on March 9, 2018, in which the Commission accepted the Parties' Stipulated Settlement on Remaining Issues filed March 5, 2018, Exhibit 2C, Page 2 of 13. Approved in Final Decision and Order No. 35545 filed June 22, 2018.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RATE BASE RAM ADJUSTMENT - CHANGE IN RATE BASE

| | | HECO 20 | 17 Test Ye | ar Rat | e Base (Note 2) | Г | HE | ECO 2019 | RAM Rate E | Base | | |
|----------|--|-------------------|-----------------------|---------|------------------------------|----|---------------------------|----------|------------------------|------|-------------------------|--------------------|
| | | • | | | • | , | Adjusted | | | | | |
| Line No. | Description | Beg. Ba 12/31/ | | Bu | dgeted Balance 12/31/2017 | | Recorded at 12/31/2018 | | I Projected mounts | | Estimated at 12/31/2019 | |
| Line No. | (a) | (b | | | (c) | _ | (d) | A | (e) | | (f) | |
| 1 | Net Cost of Plant in Service, Net of CIAC | \$ | 2,595,452 | s | 2,770,695 | \$ | (Note 1) 2,437,105 | | etail Below 129,932 | s | 2,567,037 | (Note 3) |
| 2 | Property Held for Future Use | Ψ . | - | Ψ. | - | Ψ | 2,137,103 | Ψ. | - | Ψ. | - | (1.010-3) |
| 3 | Fuel Inventory | | 46,200 | | 46,200 | | | | | | | |
| 4 | Materials & Supplies Inventories | | 28,427 | | 28,427 | | | | | | | |
| 5 | Unamort Net ASC 740 Reg Asset | | 70,144 444 | | 74,887 89 | | | Th | e Elements | | | |
| 6 7 | Unamort EOTP Reg Asset CIP CT-1 Reg Asset | | 2,306 | | 1,352 | | | | te Base are | | | |
| 8 | Unamort Sys Dev Costs | | 15,932 | | 13,496 | | Not | | for RAM Pur | oses | | (Note 5) |
| 9 | RO Pipeline Reg Asset | | 4,958 | | 4,842 | | | | | | | ` ′ |
| 10 | Pension Tracking | | 97,620 | | 113,828 | | | | | | | |
| 11 | Contrib in Excess of NPPC | | 6,470 | | 6,470 | | | | | | | |
| 12 | Total Additions | \$ | 2,867,953 | \$ | 3,060,286 | \$ | 2,718,151 | S | 129,932 | \$ | 2,848,083 | |
| 13 | Unamortized CIAC/CIAC in CWIP | \$ | (347,826) | \$ | (395,134) | \$ | (30,110) | | - | \$ | | (Note 3) |
| 13a | Developer Advances | | (2.501) | | - (2.025) | \$ | (21,345) | \$ | - | \$ | (21,345) | (Note 3) |
| 14 | Customer Advances | | (3,581) | | (3,925) | | | NI-4 | . T T J 4 J | | | (Note 3) |
| 15 16 | Customer Deposits Accumulated Def Income Taxes | | (12,101) (520,643) | | (12,005) (333,360) | | (282,714) | | Updated (7,226 | | (289,939) | (Note 4) |
| 17 | ADIT Excess Reg Liability | | (320,043) | | (203,950) | | (277,406) | | 10,381 | , | (267,025) | (Note 4), Sch D5 |
| 18 | Unamortized State ITC (Gross) | | (56,323) | | (54,903) | | (277,100) | | 10,501 | | (207,023) | (11010-1), Dell D3 |
| 19 | Unamortized Gain on Sale | | (248) | | (182) | | | Not | t Updated | | | |
| 20 | Pension Reg Liability | | - | | - | | | | | | | |
| 21 | OPEB Reg Liability | | (2,817) | | (2,331) | | | | | | | |
| 22 | Total Deductions | \$ | (943,539) | \$ | (1,005,790) | \$ | (685,783) | \$ | 3,155 | \$ | (682,628) | |
| 23 | Working Cash | | 3,904 | | 3,904 | | 3,904 | Not | t Updated | | 3,904 | |
| 24 | Rate Base at Proposed Rates | \$ | 1,928,318 | | 2,058,400 | \$ | 2,036,272 | | | \$ | 2,169,359 | |
| 25 26 | Average Rate Base Change in Rate Base | | | \$ | 1,993,359 | | | | | \$ | 2,102,816 109,457 | |
| | - | | | | | | | | | | To Schedule D | |
| 27 | Column (e) Projected Changes to Rate Base: | | | | Reference | | Amount \$000 | - | | | | |
| 28 29 | Plant - Baseline Capital Project Additions, N Major Project Additions, Net of CIAC | et of CIAC | | | Schedule D2 Schedule D3 | | 200,583 69,023 | | | | | |
| 30 | Accumulated Depreciation/Amortization Ch | ange | | | Schedule E | | (139,674) | | | | | |
| 31 | Net Plant | unge | | Su | m: Lines 28-30 | | 129,932 | | | | | |
| 32 | ADIT - Baseline and Major Capital Projects | | | | Schedule F | | (7,226) | | | | | |
| 33 | ADIT - Joint Pole Capital Transfer Price | | | _ | Note 6 | | - | | | | | |
| 34 | ADIT Excluding Joint Pole | | | Sı | ım: Line 32-33 | _ | (7,226) | | | | | |
| 35 | Excess ADIT Reg Liability Amortization (Plant 282 excess def amort beginning 6/1/20 | 10) | | | Schedule D5 | | 10,381 | | | | | |
| | | 19) | | | | | | | | | | |
| 1 | Footnotes: Amounts are recorded, except for the follow | ing adjustmen | ts: | | | | | Sch | edule D4 | | | |
| [A] | Hardingtod Dalance | | | P \$ | lant in Service | • | Acc. Depr. | | ADIT (202 (50) | | | |
| [A] | Unadjusted Balance Add: | | | 3 | 4,496,539 | \$ | (1,565,762) | 3 | (283,658) | , | | |
| [A] | RWIP | | | | | | 41,901 | | | | | |
| [A] | Asset Retirement Obligation | | | | | | (4,780) | | | | | |
| [A] | Reg Liab-Cost of Removal (net salvage) Tenant Improvement Allowance (Sch E) | | | | (14,132) | | (356,926) 9,824 | | | | | |
| | Major Project Adjustments: | | | HE | CO-WP-D2-001 | Н | IECO-WP-E-001 | HECO | -WP-D4-002 | | | |
| | ERP EAM Hardware | | | | (14) | | 3 | | 2 | | | |
| | Koolau-Wailupe #1 Str 30 P9 Replace | | | | (142) | | 4 | | 14 | | | |
| | Total Adjustments | | | \$ | (156) | \$ | 7 | \$ | 16 | Sch | edule D4 | |
| | Major Project Interim Recovery Adjustments | <u>.</u> | | HE | CO-WP-D2-001 | Н | IECO-WP-E-001 | HECO | -WP-D4-003 | | | |
| | Schofield Generation Station | | | s | (144,744) | 6 | | \$ | 1,832 | Sch | edule D4 | |
| | Total Adjustments Joint Pole Capital Transfer Price | | Note 6 | \$ | (144,744) (24,666) | \$ | - | \$ | 1,832 (904 |) | | |
| | Adjusted Balance | | 11010 0 | \$ | 4,312,841 | \$ | (1,875,736) | | (282,714 | | | |
| | . rajassed Dalaite | | | Ψ | 7,312,071 | Φ | (1,075,750) | Ψ | (202,714 | , | | |

- 2 See Final Decision and Order No. 35545, For Approval of General Rate Case and Revised Schedules/Rules, filed on June 22, 2018, Exhibit B, Page 1 of 2. Revised for presentation purposes only to properly reflect the Unamortized Net ASC 740 Reg Asset, ADIT, and ADIT Excess Reg Liability balances. No change to Total Average Rate Base.
- 3 Per PowerPlan extract. Effective October 2018, the Company reclassified CIAC to Plant in Service or CWIP consistent with FERC guidelines. In 2018, CIAC has been netted with either Plant in Service or CWIP and Developer Advances (Cash CIAC received from developers, subject to refund) which has been included as a reduction to rate base. See further discussion of the Company's treatment of CIAC at HECO-WP-D1-001.
- 4 As a result of the 2017 Tax Reform Act, Regulatory Liability accounts were created and recorded as of December 31, 2017 to isolate the 2017 excess accumulated deferred taxes resulting from the lower federal tax rate. The bifurcated Regulatory Liabilities are included as a reduction to Rate Base. See further discussion at Schedule F.
- 5 HECO 2017 Test Year Rate Base includes CIS deferred costs in Unamortized System Development Costs. See detail in November 15, 2017, Stipulated Settlement Letter, HECO T-17, Attachment 1, Page 2.
- 6 See Decision and Order No. 35768, Docket No. 2018-0075 filed October 16, 2018. Commission approved the Asset Transfer, Pole Licensing and Amended Joint Pole Agreements and the accounting and ratemaking treatment described in Exhibit E of the Application. The change in ADIT represents the tax effect of the book tax difference on depreciation for the Joint Pole assets
- [A] SOURCE: Hawaiian Electric Company, Inc. Monthly Financial Report December 2018, filed February 28, 2019.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF BASELINE CAPITAL PROJECTS ADDITIONS, NET OF CIAC

Source: Docket No. 03-0257 General Order No. 7 Plant Additions Annual Reports filed with the PUC dated:

| | | | | 3/27/2015 | 3/29/2016 | 3/30/2017 | 3/27/2018 | NOTE (1) |
|----------|---|---------------------------------------|----------------------|----------------------------|---|--------------|------------------|---------------|
| Line No. | Description (a) | | | 2014 (c) | 2015 (d) | 2016 (e) | 2017 (f) | 2018 (f) |
| | (a) | | | (c) | (u) | (c) | (1) | (1) |
| 1 | Total Plant Additions | | | 269,326,250 | 266,537,660 | 241,294,569 | 276,754,129 | 358,703,631 |
| 2 | Less: Non-Utility Plant Additions | | NOTE (2) | | (63) | (3,954) | - | - |
| 3 | Adjusted Total Plant Additions | | | 269,326,250 | 266,537,597 | 241,290,615 | 276,754,129 | 358,703,631 |
| 4 | | | | | | | | |
| 5 | Less Major Projects: (+\$2.5 Million) | <u>Dkt No.</u> | Item No. | 10.502 | (70) | | | |
| 6 | W8 Boiler Controls Upgrade | 2007-0365 | P7650000 | 18,503 | (70) | ((02) | | |
| 7 8 | EOTP Ph. 2 (Subs/Switch Stations) | 2010-0062 | Y48500 | (7,357) | (55,681) | (682) | | |
| 9 | W7 Controls Upgrade | 2009-0195 | P7590000 | (8,237) | (35) | | | |
| 10 | 2012 In-Service: | | | | | | | |
| 11 | Kapolei Substation | 2011-0026 | Y00127 | (6,459) | | | | |
| 12 | 1 | | | (-,, | | | | |
| 13 | 2013 In-Service: | | | | | | | |
| 14 | Pukele 80MVA Tsf #3 | 2011-0156 | P0001494 | (28,327) | 15,611 | | | |
| 15 | Kakaako Makai-Iwilei 25kV DL | 2009-0042 | Y00038 | (485,650) | (496,818) | | 400,000 | |
| 16 | North South Road 46kV Line | 2008-0070 | Y00119 | | (3,488) | | | |
| 17 | | | | | | | | |
| 18 | 2014 In-Service: | | | | | | | |
| 19 | Kaloi Substation | 2008-0070 | Y00119 | (6,548,755) | (925) | | | |
| 20 | Kaloi Sub 46kV & 12kV Distr | 2008-0070 | Y00119 | (1,218,895) | | | | |
| 21 | Kaloi Telecomm | 2008-0070 | Y00119 | (171,237) | | | | |
| 22 | Kaloi Sub 12kV Work | 2008-0070 | Y00119 | (25,906) | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
| 23 | Kakaako Makai-Kewalo 25kV DL | 2009-0042 | Y00038 | (4,958,840) | (464,900) | (111) | 400,000 | |
| 24 | Kakaako Makai DOT Queen-Cook | 2009-0042 | Y00038 | (1,961,600) | (418,816) | (2,890,742) | 476,166 | |
| 25 | BPT Tank 133 Improvements | 2010-0318 | P0000900 | (6,095,787) | (1,092,308) | | | |
| 26 27 | Pukele 80MVA Tsf #2 | 2011-0156 2008-0329 | P0001492 P0001370 | (3,449,859) (4,965,396) | (40,084) (97,130) | (172,652) | (94,001) | 3,516 |
| 28 | DOT Airport DSG | 2008-0329 | F0001370 | (4,905,590) | (97,130) | (172,032) | (94,001) | 3,310 |
| 29 | 2016 In-Service: | | | | | | | |
| 30 | Pukele 80MVA Tsf #1 | 2011-0156 | P0002264 | | | (3,839,121) | (7,612) | |
| 31 | Takete oom vii 131 //1 | 2011 0150 | 10002201 | | | (5,05),121) | (7,012) | |
| 32 | 2017 In-Service: | | | | | | | |
| | | 2014.0170 | PE.000003 | | | | (2 (04 140) | |
| 33 | ERP EAM Hardware | 2014-0170 | (Y00168) | | | | (2,604,146) | |
| 2.4 | V1 W-:1 #1 S4 20 D0 D1 | | PE.000104 | | | | (2 (94 297) | (12.202) |
| 34 | Koolau-Wailupe #1 Str 30 P9 Replace | | (P0003465) | | | | (2,684,387) | (13,203) |
| 35 | | | | | | | | |
| 36 | 2018 In-Service: | | | | | | | |
| | | | PZ.000016/ | | | | | |
| 37 | MPIR-Schofield Generating Station | 2017-0213 | PZ.001002 | | | | | (144,743,542) |
| • | | 2040 0055 | (P0001576) | | | | | (24.555.00=) |
| 38 | Joint Pole Capital Transfer Price | 2018-0075 | PE.005155 | | | | | (24,665,897) |
| 39 | Total Net Plant Additions (excluding major | projects) | | 239,412,448 | 263,882,953 | 234,387,307 | 272,640,149 | 189,284,505 |
| 40 | I (F) V A DI (ALP) | | | | | | T- C-1 E1 | 220 021 452 |
| 41 | Last Five-Year Average - Plant Additions | | | | | | To Sch F1 | 239,921,472 |
| 42 | I CIAC in-ludin - Developer Adven- | | NOTE (2) | (21 902 050) | (42 140 722) | (2(214 201) | (50 940 2(9) | (20 5(9 427) |
| 43 44 | Less: CIAC, including Developer Advances | | NOTE (3) | (31,803,050) | (42,140,722) | (36,314,281) | (59,849,268) | (29,568,427) |
| 45 | EOTP Ph. 2 (Subs/Switch Stations)-CIAC | 2010-0062 | Y48500 | 43,725 | 15,232 | 718 | | |
| 46 | Kakaako Makai DOT Queen-Cook-CIAC | 2010-0002 | Y00038 | 73,123 | 13,232 | 2,825,023 | | |
| 47 | DOT Airport DSG-CIAC | 2009-0042 | P0001370 | | | 2,023,023 | | 96,602 |
| 48 | Total CIAC Additions (excluding major pro | | 10001570 | (31,759,325) | (42,125,490) | (33,488,540) | (59,849,268) | (29,471,825) |
| 49 | major pro | · · · · · · · · · · · · · · · · · · · | | (,.0,,0=0) | (,-20, 1, 0) | (, -50,0 -0) | (== ,= .> ,= 00) | (,,, 020) |
| 50 | Total Net Plant Additions, Net of CIAC (exc | cluding major r | projects) | 207,653,123 | 221,757,463 | 200,898,767 | 212,790,881 | 159,812,680 |
| 51 | , | e | • / | ,, - | , , , , | , -, - | , -, | , , |
| 52 | Last Five-Year Average - Plant Additions, N | Net of CIAC | | | | | To Sch D1 | 200,582,583 |
| | | | | | | | = | |

NOTE (1): Amounts per HECO-WP-D2-002 and the Hawaiian Electric Companies' Exemption From and Modification of General Order No. 7 Paragraph No. 2.3(g), Relating to Capital Improvements Capital Projects Completed in 2017, in Docket No. 03-0257, filed on March 27, 2019.

NOTE (2): Source: UI Planner Budget files: Actuals Scenario. Adjustment to remove non-utility plant additions from utility plant. Chapin UG Duct Line is a non-utility asset. It is a contributed asset that was given to the Company. It is not being used and there are currently no plans to use it.

NOTE (3): See HECO-WP-D2-001 for line 47 - 2018 Major Project CIAC additions, HECO-WP-D2-003 for 2018 CIAC Additions, HECO-WP-D2-004 for 2014 to 2017 CIAC Additions and WP-D1-001 for treatment of CIAC.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF MAJOR CAPITAL PROJECT ADDITIONS, NET OF CIAC

| Line No. | Description (a) | PUC Docket Reference (b) | Estimated In Service Date (c) | Plant Addition Amount (d) | CIAC Amount (e) |
|----------|---|--|-------------------------------|---------------------------|-----------------------|
| 1 2 | AES-CEIP #2 138kV OH Trans Line Relocation | Docket No. 2016-0439 (Decision & Order dated 03/02/2018) UI Planner Budget files | Feb-19 | 3,007,232 | |
| 3 4 | West Loch Utility Scale PV | Docket No. 2016-0342 (Decision & Order dated 06/30/2017) UI Planner Budget files | Jun-19 | 52,128,000 | |
| 5 6 | Ala Wai Canal-46kV Relocation | Docket No. 2016-0416 (Decision & Order dated 09/01/2017) UI Planner Budget files | Jun-19 | 13,910,207 | |
| 7 8 | Kakaako Makai | Docket No. 2009-0042 (Decision & Order dated 06/12/2009) UI Planner Budget files | Apr-14 | | (22,683) |
| 9 | Total Major Capital Projects Qua | | \$ 69,045,439 | \$ (22,683) | |
| 10 | | | | To Sch D1 & F2 | \$ 69,022,756 |

Source: HECO-WP-D3-001

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF ADJUSTED RECORDED DEFERRED INCOME TAXES

| | | DR/(CR) | DR/(CR) | DR/(CR) | |
|---|---|---|--|--|---------------|
| NARIIC Account | Reference | Federal ADIT | State ADIT | Total | |
| | · | | | | |
| (a) | (0) | (c) | (u) | (C) | |
| Recorded Deferred Income Tax Balances | | | | | |
| | | | | | |
| Beccineer 51, 2010 Recorded Bulances | | | | | |
| Depreciation Related Account 282 | HECO-WP-D4-001 | (208,764,869) | (35,223,942) | (243,988,811) | |
| Other Deferred Income Taxes | HECO-WP-D4-001 | (33,950,451) | (5,718,989) | (39,669,440) | |
| Total Recorded Deferred Income Taxes | | (242,715,320) | (40,942,931) | (283,658,251) | To Sch D1 |
| | | | | | D-WP-H-001 |
| Adjustments to Recorded Balances: | | | | | |
| • | HECO-WP-D4-002 | 15,698 | 898 | 16,596 | |
| 3 3 1 | HECO-WP-D4-003 | | 427,943 | 1.832,127 | To Sch D1 |
| , , | | , , , , | . ,- | , , | |
| Total Adjustments to Recorded ADIT Balance | ces | 1,419,882 | 428,841 | 1.848.723 | To Sch D1 |
| , | | | | ,, | |
| Adjusted Recorded ADIT Balances -12/31/18 | | (241,295,438) | (40,514,090) | \$ (281,809,528) | To Sch D1 |
| 3 | | | | | |
| 282 ADIT adjusted for ADIT on Major Project | et | | | | |
| 3 3 | | (208.749.171) | | | |
| | | | 03 | | |
| | Ther Deferred Income Taxes Fotal Recorded Deferred Income Taxes djustments to Recorded Balances: DIT on Major Project excess depreciation DIT on Major Project Interim Recovery Fotal Adjustments to Recorded ADIT Balan djusted Recorded ADIT Balances -12/31/18 | (a) (b) ecorded Deferred Income Tax Balances December 31, 2018 Recorded Balances epreciation Related Account 282 HECO-WP-D4-001 ther Deferred Income Taxes HECO-WP-D4-001 Total Recorded Deferred Income Taxes djustments to Recorded Balances: DIT on Major Project excess depreciation DIT on Major Project Interim Recovery HECO-WP-D4-003 Total Adjustments to Recorded ADIT Balances djusted Recorded ADIT Balances 42 ADIT adjusted for ADIT on Major Project | (a) (b) (c) ecorded Deferred Income Tax Balances December 31, 2018 Recorded Balances epreciation Related Account 282 HECO-WP-D4-001 (33,950,451) Fotal Recorded Deferred Income Taxes (242,715,320) djustments to Recorded Balances: DIT on Major Project excess depreciation HECO-WP-D4-002 15,698 DIT on Major Project Interim Recovery HECO-WP-D4-003 1,404,184 Fotal Adjustments to Recorded ADIT Balances djusted Recorded ADIT Balances -12/31/18 (241,295,438) 82 ADIT adjusted for ADIT on Major Project excess depreciation Line 2 + Line 6 (208,749,171) | (a) (b) (c) (d) ecorded Deferred Income Tax Balances December 31, 2018 Recorded Balances epreciation Related Account 282 HECO-WP-D4-001 (33,950,451) (5,718,989) Total Recorded Deferred Income Taxes (242,715,320) (40,942,931) djustments to Recorded Balances: DIT on Major Project excess depreciation HECO-WP-D4-002 15,698 898 DIT on Major Project Interim Recovery HECO-WP-D4-003 1,404,184 427,943 Total Adjustments to Recorded ADIT Balances 1,419,882 428,841 djusted Recorded ADIT Balances -12/31/18 (241,295,438) (40,514,090) | NARUC Account |

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF ADJUSTED RECORDED EXCESS ADIT REGULATORY LIABILITY

| | | | DR/(CR) Balance | DR/(CR) | DR/(CR) | DR/(CR) Balance | | | Est Bal |
|------|------------------------|-----------|--------------------|-------------|--------------|--------------------|------|--------------|---------------|
| Line | NARUC Account | Reference | at 12/31/17 | Adjustments | Amortization | at 12/31/18 | Life | Amortization | at 12/31/19 |
| | (a) | (b) | (c) | _ | (d) | (e) | (f) | (g) | (h) |
| | | | | | | = (c) + (d) | | | = (e) + (g) |
| 1 | Plant 282 - protected | | (215,702,497) | (7,803,210) | | (223,505,707) | 40 | 5,587,643 | (220,246,249) |
| 2 | Plant 283 - unprotecte | ed | (35,065,867) | | 1,668,881 | (33,396,986) | 15 | 2,337,723 | (31,059,263) |
| 3 | Nonplant 283 - unprot | tected | (23,918,454) | | 3,415,029 | (20,503,425) | 5 | 4,783,679 | (15,719,746) |
| | Total Excess ADIT | | | | | | | | |
| 4 | Regulatory Liability | | (274,686,818) | (7,803,210) | 5,083,910 | (277,406,118) | | 12,709,045 | (267,025,258) |
| | | | Note 1 | | | To Sch D1 | | To Sch E | To Sch D1 |
| | | | | | | | | | Note 3 |

Reconciliation of 12/31/18 Balance:

| Regulatory Liability in GL | GL#25400023/2 | 4 | (278, 155, 753) |
|----------------------------|---------------|------------|-----------------|
| Regulatory Asset in GL | GL#18673900 | 34,112,667 | |
| 2018 Amortization | | 587,116 | |
| | _ | | 34,699,783 |
| | | | (243,455,970) |
| Add: FAS 109 | Note 1 | | (33,950,008) |
| Total Excess ADIT | | | (277,405,978) |
| Total Excess ADIT | Line 4 | | (277,406,118) |
| Remaining Difference | | | 140 |

Note 1: The 12/31/17 balances represent the amortization base presented in Docket 2016-0328 Hawaiian Electric's 2017 Test Year Rate Case Revised Attachment to the Parties' Stipulated Settlement on Remaining Issues, Attachment 2A, filed March 8, 2018 However, this amortization base inadvertently excluded reclassifications recorded at December 31, 2017 between the 2017 unprotected plant 283 excess net regulatory liability and the portion of ASC 740 regulatory assets/liabilities offsetting the related excess deferred income taxes.

Note 2: Amortization began 4/14/2018.

Note 3: Line 1: Plant 282-protected excess deferred balance calculated as follows: [col (e)/col (f)] * (7 months/12 months) + col (e) Amortization begins on 6/1/2019.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF DEPRECIATION & AMORTIZATION RAM ADJUSTMENT

| | | Recorded | | Adjusted | PUC | |
|----------|-----------------------------|---|-----------------|-------------------------------|---------------------|------------------------|
| Lina No | FERC Account | Depreciable/Amort. Balance (Footnote 3) | Adjustments | Depreciable/Amort. Balance | Approved | Annual Agamusl |
| Line No. | (a) | (b) | (Footnote 1) | (d) | Accrual Rate (e) | Annual Accrual (f) |
| | (-) | (-) | (-) | (-) | (-) | (-) |
| 1 | Depreciable Plant | 107.116.270 | | 107.116.270 | 0.01600 | 1.712.060 |
| 2 | 311 | 107,116,270 | (2.422.000) | 107,116,270 | 0.01600 | 1,713,860 |
| 3 4 | 312 314 | 407,080,257 194,394,996 | (3,423,000) | 403,657,257 194,394,996 | 0.02030 | 8,194,242 2,993,683 |
| 5 | 314 | 83,448,693 | | 83,448,693 | 0.01540 0.02430 | 2,027,803 |
| 6 | Tot - Steam | 792,040,216 | (3,423,000) | 788,617,216 | 0.01885 | 14,929,589 |
| 7 | | ,, | (-) -)) | , . , | | , , |
| 8 | 341 | 38,255,922 | | 38,255,922 | 0.00770 | 294,571 |
| 9 | 342 | 17,647,714 | | 17,647,714 | 0.02580 | 455,311 |
| 10 | 343 | 212,348,035 | (142,147,612) | 70,200,423 | 0.03260 | 2,288,534 |
| 11 | 344 | 32,411,015 | | 32,411,015 | 0.01010 | 327,351 |
| 12 | 345 | 34,684,516 | (142 147 (12) | 34,684,516 | 0.02510 | 870,581 |
| 13 14 | Tot - Gas Turb | 335,347,202 | (142,147,612) | 193,199,590 | 0.01263 | 4,236,348 |
| 15 | Tot - Prod | 1,127,387,418 | (145,570,612) | 981,816,806 | | 19,165,937 |
| 16 | 101 1104 | 1,127,507,110 | (115,570,012) | 701,010,000 | | 17,103,737 |
| 17 | 3501 | 3,033,447 | | 3,033,447 | _ | _ |
| 18 | 352 | 41,371,948 | (2,003,490) | 39,368,458 | 0.01600 | 629,895 |
| 19 | 353 | 316,099,319 | (352,190) | 315,747,129 | 0.01860 | 5,872,897 |
| 20 | 354 | 15,336,208 | | 15,336,208 | 0.01480 | 226,976 |
| 21 | 355 | 377,095,780 | | 377,095,780 | 0.03240 | 12,217,903 |
| 22 | 356 | 184,909,083 | (141,971) | 184,767,112 | 0.03270 | 6,041,885 |
| 23 24 | 357 358 | 60,113,518 66,198,742 | | 60,113,518 66,198,742 | 0.01590 0.01730 | 955,805 1,145,238 |
| 25 | 359 | 3,235,054 | | 3,235,054 | 0.01730 | 48,202 |
| 26 | Tot - Transm | 1,067,393,099 | (2,497,651) | 1,064,895,448 | 0.02543 | 27,138,801 |
| 27 | | -,, | (=, ., ., ., ., | -,000,000,000 | ****** | |
| 28 | 3601 | 2,599,051 | | 2,599,051 | 0.02340 | 60,818 |
| 29 | 361 | 26,265,151 | | 26,265,151 | 0.01080 | 283,664 |
| 30 | 362 | 273,453,197 | | 273,453,197 | 0.02020 | 5,523,755 |
| 31 | 363 | 2,957,666 | (24.665.005) | 2,957,666 | 0.03740 | 110,617 |
| 32 | 364 | 245,168,525 | (24,665,897) | 220,502,628 | 0.03390 | 7,475,039 |
| 33 34 | 365 366 | 105,897,935 270,101,616 | | 105,897,935 270,101,616 | 0.04190 0.02190 | 4,437,123 5,915,225 |
| 35 | 367 | 405,492,451 | | 405,492,451 | 0.04980 | 20,193,524 |
| 36 | 368 | 220,837,260 | | 220,837,260 | 0.05200 | 11,483,538 |
| 37 | 369.1 | 59,534,914 | | 59,534,914 | 0.05250 | 3,125,583 |
| 38 | 369.2 | 174,898,002 | | 174,898,002 | 0.04070 | 7,118,349 |
| 39 | 370 | 40,383,030 | | 40,383,030 | 0.02660 | 1,074,189 |
| 40 | Tot - Distr | 1,827,588,798 | (24,665,897) | 1,802,922,901 | 0.03655 | 66,801,423 |
| 41 | T T. O. D. | 2 004 001 007 | (27.1(2.549) | 2.07.010.240 | | 02.040.224 |
| 42 43 | Tot - T & D | 2,894,981,897 | (27,163,548) | 2,867,818,349 | | 93,940,224 |
| 44 | 390 | 67,940,630 | | 67,940,630 | 0.02450 | 1,664,545 |
| 45 | Tot - General | 67,940,630 | _ | 67,940,630 | 0.02450 | 1,664,545 |
| 46 | | ,, | | ,. | | ,,. |
| 47 | Sub-Total | 4,090,309,945 | (172,734,160) | 3,917,575,785 | | 114,770,706 |
| 48 | | | | | | |
| 49 | 3902 (King) | 8,011,075 | | 8,011,075 | 0.03010 | 241,114 |
| 50 | 3902 (CPP) | 2,115,809 | | 2,115,809 | 0.00417 | 8,814 |
| 51 | 3902 (Waterhouse) | 1,517,450 | | 1,517,450 | 0.00000 | 40.020 |
| 52 53 | 3902 (Hon Cl) 3902 (ASB) | 523,097 1,463,127 | | 523,097 1,463,127 | 0.07824 0.06133 | 40,929 89,738 |
| 54 | 3902 (ASB) | 939,475 | | 939,475 | 0.00000 | - |
| 55 | 3902 (PPP) | 372,940 | | 372,940 | 0.11111 | 41,438 |
| | 3902 (Pauahi) | 50,376 | | 50,376 | 0.33333 | 16,792 |
| 56 | 3902 (Tenant Allowance) | 14,131,757 | (14,131,757) | _ | - | |
| 57 | Tot- LH Impr | 29,125,106 | (14,131,757) | 14,993,349 | | 438,824 |
| 58 | | | | | | |
| 59 | 392 | 59,063,238 | | 59,063,238 | 0.06130 | 3,620,576 |
| 60 61 | Utility Total Depreciation | 4,178,498,289 | (186,865,917) | 3,991,632,372 | 0.02844 | 118,830,107 |
| 01 | Carry 1 oral Depreciation | 7,1/0,470,409 | (100,003,71/) | 3,771,034,374 | 0.02044 | 110,030,107 |

| | | Recorded Depreciable/Amort. | Adjustments | Adjusted Depreciable/Amort. | PUC Approved | |
|----------|---|-----------------------------|----------------|-----------------------------------|------------------|------------------|
| Line No. | FERC Account | Balance (Footnote 3) | (Footnote 1) | Balance | Accrual Rate | Annual Accrual |
| Line No. | (a) | (b) | (c) | (d) | (e) | (f) |
| 61 | Amortizable Plant | (0) | (0) | (4) | (0) | (1) |
| 62 | 316 | 26,291,658 | | 26,291,658 | 0.05000 | 1,314,583 |
| 63 | Tot - Steam | 26,291,658 | - | 26,291,658 | 0.05000 | 1,314,583 |
| 64 | | | | | | |
| 65 | 346 | 20,326,815 | | 20,326,815 | 0.05000 | 1,016,341 |
| 66 | Tot - Gas Turb | 20,326,815 | - | 20,326,815 | 0.05000 | 1,016,341 |
| 67 | | | | | | |
| 68 | Tot - Prod | 46,618,473 | - | 46,618,473 | 0.05000 | 2,330,924 |
| 69 | | | | | | |
| 70 | 3911 | 30,764,654 | (14,146) | 30,750,508 | 0.20000 | 6,150,102 |
| 71 | 3912 | 3,172,052 | | 3,172,052 | 0.10000 | 317,205 |
| 72 | 3913 | 16,599,312 | | 16,599,312 | 0.06670 | 1,107,174 |
| 73 | 393 | 1,478,752 | | 1,478,752 | 0.04000 | 59,150 |
| 74 | 394 | 39,001,211 | | 39,001,211 | 0.04000 | 1,560,048 |
| 75 | 395 | 879,317 | | 879,317 | 0.06670 | 58,650 |
| 76 | 396 | 4,479 | (240.250) | 4,479 | 0.05560 | 249 |
| 77 | 397 | 130,589,670 | (240,250) | 130,349,420 | 0.06670 | 8,694,306 |
| 78 79 | 398 Tot - General | 8,483,472 | (254 206) | 8,483,472 | 0.06670 | 565,848 |
| 80 | 10t - General | 230,972,919 | (254,396) | 230,718,523 | 0.08015 | 18,512,733 |
| 81 | | | | | | |
| 82 | | | | | | |
| 83 | Utility Total Amortization | 277,591,392 | (254,396) | 277,336,996 | 0.07509 | \$ 20,843,656 |
| 84 | ounty roun ranoruzation | 277,071,372 | (25.,550) | 277,550,550 | 0.07.505 | 3 20,010,000 |
| 85 | TOTAL RAM DEPRECIAT | TION / AMORTIZATION | | Lir | ne 61 + Line 83 | \$ 139,673,763 |
| 86 | LESS: Vehicle Depreciation | | | Dii | Line 59 | \$ (3,620,576) |
| 87 | LESS: ADIT Excess Amorti | | | | Schedule D5 | (12,709,045) |
| 88 | LESS: Depreciation & Amo | | iues | | Footnote 2 | \$ (120,665,585) |
| 89 | 1 | | | | | |
| 90 | RAM Adjustment for Depre | ciation & Amortization | | | | \$ 2,678,556 |
| 91 | RAM Adjustment for CIAC | Amortization | | | Note 5 | \$ - |
| 92 | Total RAM Adjustment for | Depreciation & Amortizat | tion | | | \$ 2,678,556 |
| 93 | Times: Factor for Revenue | Γaxes | | Sch | edule C Line 5 | 1.0975 |
| 94 | | | | | | |
| 95 | RAM DEPRECIATION & | AMORTIZATION | | | | \$ 2,939,716 |
| | | | | | | To Sch A1 |
| Footnote | | | | | | |
| | Amounts are recorded (in \$ | | | Plant in Service | | |
| 1 | following adjustments (see I | HECO-WP-D2-001): | | From D1 | | |
| | ERP EAM Hardware | | HECO-WP-D2-001 | | Linked from Sc | h D1 |
| | Koolau-Wailupe #1 Str 30 | | | (142) | | |
| | MPIR - Schofield Generation | ng Station | <u> </u> | (144,744) | | |
| | | | | | See Decision ar | |
| | | | | | 35768, Docket 1 | |
| | Joint Pole Capital Transfer | | | (24,666) | filed October 16 | , 2018 |
| | Tenant Improvement Allow | | CI # 10100001 | (14,132) | | |
| | ARO Assets included in De | epreciable Plant | GL# 10100001 | (3,423) | V | |
| | Total | | | \$ (187,121) | | |
| 2 | Donragiation & Assessing | n in Current Bassassa | | Done/Amort Free | | |
| 2 | Depreciation & Amortizatio Total Depreciation | ii iii Current Revenues": | | Depr/Amort Expense \$ 139,686,000 | | |
| | LESS: Vehicle Depreciat | ion (A/C 392) | | (3,590,000) | | |
| | LESS. Venicle Deprecial | | | (7,121,415) | | |

*See Order No. 35335, in Docket No. 2016-0328, For Approval of General Rate Case and Revised Schedules/Rules, filed on March 9, 2018, in which the Commission accepted the Parties' Stipulated Settlement on Remaining Issues filed March 5, 2018, HECO T-25, Attachment 1, Page 1 and the Revised Attachment to the Parties Stipulated Settlement on Remaining Issues, filed March 8, 2018, HECO T-26, Attachment 2A, Page 1. Approved in Final Decision and Order No. 35545, filed June 22, 2018.

Note 5

(7,121,415)

(8,309,000)

To Line 88

120,665,585

128,974,585

3 Per Accounting records, does not include land amounting to \$40,449,426 as of December 31, 2018.

LESS: Amortization of Excess ADIT Total Depreciation in Current Revenues

Total Depreciation & Amortization in Current Revenues

ADD: CIAC Amortization

- 4 Amount represents tenant improvement allowances paid by the lessors and excluded from the RAM calculation.
- 5 Effective October 2018, the Company reclassified CIAC to Plant in Service or CWIP consistent with FERC guidelines. Amounts shown in this Schedule represent balances net of CIAC.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF CHANGE IN DEFERRED INCOME TAXES

| | | | Projected ADIT |
|----------|--|----------------|----------------|
| Line No. | NARUC Account | Reference | Change |
| | (a) | (b) | (c) |
| 1 | State Tax Depreciation | Schedule F1 | 20,239,341 |
| 2 | Amortization of Excess Deferreds | Schedule D5 | 10,380,860 |
| 3 | Subtotal | | 30,620,201 |
| 4 | Effective Federal Tax Rate | HECO-WP-F-001 | 19.7368% |
| 5 | Federal Deferred Tax on State Tax Depreciation | | 6,043,461 |
| 6 | Add back State Tax Depreciation | Line 1 | (20,239,341) |
| 7 | Federal Tax Depreciation | Schedule F1 | 20,239,341 |
| 8 | Federal/State Difference | | - |
| 9 | Tax Rate on Federal Only Adjustment | HECO-WP-F-001 | 21% |
| 10 | Federal Deferred Tax Adjustment | | - |
| 11 | Total Federal Deferred Taxes Before Proration | | 6,043,461 |
| 12 | Proration Adjustment | HECO-WP-F1-003 | (659,544) |
| 13 | Total Federal Deferred Taxes After Proration | | 5,383,917 |
| | STATE DEFERRED TAXES | | |
| 14 | State Tax Depreciation | Line 1 | 20,239,341 |
| 15 | Amortization of Excess Deferreds | Line 2 | 10,380,860 |
| 16 | Subtotal | | 30,620,201 |
| 17 | Effective State Tax Rate | HECO-WP-F-001 | 6.0150% |
| 18 | Total State Deferred Taxes | | 1,841,817 |
| | | | , , |
| 19 | TOTAL FED AND STATE DEFERRED TAXES | | 7,225,733 |
| | | | To Sch D1 |

NOTE 1: In accordance with the tariff, the change in ADIT in the RAM year is based on the temporary book/tax depreciation differences associated with the RAM year plant additions (major capital projects and baseline plant additions). It does not include any estimated ADIT related to the repairs deduction or CIAC on RAM year plant additions.

NOTE 2: The change in ADIT includes the tax effect of the amortization of the regulatory liability associated with the excess deferred taxes resulting from the tax rate change from the Tax Cuts and Jobs Act of 2017. This is consistent with the inclusion of the regulatory liability and the related amortization in rate base RAM.

NOTE 3: The amortization of excess deferreds was adjusted from Schedule D5 to properly reflect the ending balance of ADIT at 12/31/2019. The amortization of the Plant 282 excess deferred amortization begins on 6/1/2019; the 12/31/2019 balance therefore reflects 7/12ths of this component in the ending ADIT balance.

| Calculation of Excess Deferred Amortization | | | |
|---|-----------|-------------|-------------|
| Plant 282 - protected | 5,587,643 | Schedule D5 | |
| Proration Percentage (7 months/12 months) | 58.33% | | |
| | | 3,259,458 | |
| Plant 283 - unprotected | | 2,337,723 | Schedule D5 |
| Nonplant 283 - unprotected | | 4,783,679 | Schedule D5 |
| Amortization of Excess Deferreds, as Adjusted | | 10,380,860 | • |
| | | Schedule D1 | |

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TAX DEPRECIATION

| | | HE | CO-WP-F1-00 | 02 | | | | | | | | | |
|------------------------|------|---------------|----------------|----------------|----------------|---------------|------------------|---------------------------|------------------------|--|----------------------|------------------|----------------------|
| Line No. | LIFE | PROJECTS I | | TOTAL | PROJECTS PR | ROGRAMS | TOTAL | | | | | | |
| | (a) | (b) | (c) | (d) | (e) | (f) | (g) | | | | | | |
| 1 Computers/PV | 5 | 6,092 | | 6,092 | 2.54% | | 2.54% | | | | | | |
| 2 Communication | 20 | 5,920 | | 5,920 | 2.47% | | 2.47% | | | | | | |
| 3 Off/Furn/Tools | 7 | 5,022 | | 5,022 | 2.09% | | 2.09% | | | | | | |
| 4 Distribution | 20 | | | 130,472 | 54.38% | | 54.38% | | | | | | |
| 5 Land | - | 816 | | 816 | 0.34% | | 0.34% | | | | | | |
| 6 Non-Steam Production | 15 | 3,713 | | 3,713 | 1.55% | | 1.55% | | | | | | |
| 7 Steam Production | 20 | 22,905 | | 22,905 | 9.55% | | 9.55% | | | | | | |
| 8 Structural | 39 | 3,265 | | 3,265 | 1.36% | | 1.36% | | | | | | |
| 9 Transmission | 20 | 21,834 | | 21,834 | 9.10% | | 9.10% | | | | | | |
| 10 Transmission | 15 | 34,674 | | 34,674 | 14.45% | | 14.45% | | | | | | |
| 11 Vehicles | - | 5,209 | | 5,209 | 2.17% | | 2.17% | | | | | | |
| 12 TOTAL | | 239,922 | - | 239,922 | 100.00% | 0.00% | 100.00% | | | | | | |
| | | From Sch D2 | | | | | | | | | | | |
| | | | | 5 yr | 2.54% | | 2.54% | | | | | | |
| | | | | 7 yr | 2.09% | | 2.09% | | | | | | |
| | | | | 15 yr | 16.00% | | 16.00% | | | | | | |
| | | | | 20 yr | 75.50% | | 75.50% | | | | | | |
| | | | | 39 yr | 1.36% | | 1.36% | | | | | | |
| | | | | Land | 0.34% | | 0.34% | | | FED | FED | STATE | STATE |
| | | | | Vehicles | 2.17% | | 2.17% | | | YR 1 | YR 1 | YR 1 | YR 1 |
| | | | | Total | 100.00% | 0.00% | 100.00% | - | BASIS | DEPR RATE | TAX DEPR | DEPR RATE | TAX DEPR |
| | | | | | | | Vintage 2019 - | Regular Depreciation | | | | | |
| | | Basis subject | to regular dep | reciation | | | 9 | 8 1 | | | | | |
| | | | | <i>5</i> | 2.549/ | | 2.540/ | £ | 5 211 510 | 20.000/ | 1 042 204 | 20.000/ | 1.042.204 |
| | | | | 5 yr | 2.54% 2.09% | | 2.54% 2.09% | 5 yr | 5,211,519 4,296,167 | 20.00% 14.29% | 1,042,304 613,922 | 20.00% 14.29% | 1,042,304 613,922 |
| | | | | 7 yr 15 yr | 16.00% | | 16.00% | 7 yr 15 yr | 32,838,900 | 5.00% | 1,641,945 | 5.00% | 1,641,945 |
| | | | | 20 yr | 75.50% | | 75.50% | 20 yr | 154,952,011 | 3.75% | 5,810,700 | 3.75% | 5,810,700 |
| | | | | 20 yr 39 yr | 1.36% | | 1.36% | 39 yr | 2,793,107 | 1.177% | 32,875 | 1.177% | 32,875 |
| | | | | 57 yı | 97.49% | 0.00% | 97.49% | 37 Ji | 2,773,107 | 1.17770 | 32,073 | 1.17770 | 32,073 |
| | | | | | | | | | | | | | |
| | | | TOTA | AL ASSETS | 97.49% | 0.00% | 97.49% | | | | | | |
| | | | | | Net Deprecial | le Baseline | Plant Adds | • | 200,091,704 | | 9,141,746 | | 9,141,746 |
| | | | | | Major Capital | Projects fro | m Schedule F2 | | 69,045,439 | | 11,097,595 | | 11,097,595 |
| | | | | | Total Depreci | | | • | 269,137,143 | - | 20,239,341 | | 20,239,341 |
| | | | | | _ | | | • | | = | Fed Tax Deprec | riation | St. Tax Depreciation |
| | | | | | | | | | | | to Schedule F | | to Schedule F |
| | | | | | | | | o Net Depreciable Plant A | | | | | |
| | | | | | | | | nt Adds (rounded) | | Schedule D2 | | | |
| | | | | | | ess: Repairs | | HECO-WP-F1-001 pg 1 | 34,676,093 | < <supported l<="" td=""><td>by Special Study</td><td>each year.</td><td></td></supported> | by Special Study | each year. | |
| | | | | | | let plant add | | | 205,245,907 | | | | |
| | | | | | L | ess: Land a | nd Vehicles (2.5 | 51% x 205,245,907) | 5,154,203 | - | | | |
| | | | | | | | | : | 200,091,704 | = | | | |

NOTE (1) The Tax Cut and Jobs Act removed bonus depreciation for public utility property.

NOTE (2) The numbers in columns b, c, d are rounded to the nearest thousand.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK TAX DEPRECIATION ON MAJOR CAPITAL PROJECTS ADDITIONS

| | | | | Estimated | | |
|----------|--|-------------------|------------|-----------------|---------------|-------------------|
| Line No. | Description | | PUC Docket | In Service Date | Amount | |
| | (a) | (b) | (c) | (d) | (e) | _ |
| 1 | Assumed Value of 2019 Major Capital Projects | Plant Items | | | \$ 69,045,439 | Schedule D3 |
| 2 | Assumed Value of 2019 Major Capital Projects | - CIAC nontaxable | | | \$ - | Schedule D3 |
| 3 | Assumed Value of 2019 Major Capital Projects | | | | \$ 69,045,439 | - - |
| | | | FED | FED | STATE | STATE |
| | Tax Classification of | | YR 1 | YR 1 | YR 1 | YR 1 |
| | | | | | | |
| 4 | Major Capital Project Additions | Tax Basis | DEPR RATE | TAX DEPR | DEPR RATE | TAX DEPR |
| 5 | 5 yr | 52,128,000 | 20.00% | 10,425,600 | 20.00% | 10,425,600 |
| 6 | 7 yr | - | 14.29% | - | 14.29% | - |
| 7 | 15 yr | 3,007,232 | 5.00% | 150,362 | 5.00% | 150,362 |
| 8 | 20 yr | 13,910,207 | 3.75% | 521,633 | 3.75% | 521,633 |
| 9 | 39 yr | - | | | | |
| 10 | Land | - | | | | |
| 11 | Vehicles | - | | | | |
| | Total | \$ 69,045,439 | | \$ 11,097,595 | | \$ 11,097,595 |
| | | To Sch F1 | | To Sch F1 | | To Sch F1 |

^{*} Adjustment only for non-taxable CIAC.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK CIAC SUMMARY

| Line | | | Unamortized | CIAC |
|------|-------------|-----------|-------------|--------------|
| No. | Description | Reference | CIAC | Amortization |
| | (a) | (b) | (c) | (d) |

Schedule not applicable.

See HECO-WP-D1-001 for further discussion on the Company's treatment of CIAC within the Annual Decoupling filing.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK EARNINGS SHARING CALCULATIONS

All Amounts \$000 (Except %)

| Line | | | | | | | ing | Basis Return o | | |
|---------|--|----------------------------------|-----|--------------|-----|-----------------------|-----|-----------------------|--------|-------------|
| No. | Description | Referer | nce | | Оре | erating Income | _ | Rate Base | Rate | of Return |
| | (a) | (b) | | | | (c) | | (d) | | (e) |
| 1 | Reported Operating Income before ratemaking adjustment | HECO-WP-H-009 & HECO-WP-H-001 | ž. | | \$ | 134,181 | \$ | 2,109,963 | | |
| 1a | Settlement of prior Joint Pole Accounts Receivable | Note 3 | | | | 697 | | | | |
| 2 | Ratemaking Adjustments to Line 1: | | | | | | | | | |
| 2a | Incentive Compensation Expenses (net of tax) | HECO-WP-H-002 | | | | 4,073 | | | | |
| 2b | Discretionary and Other Expenses Not Recoverable (net of tax) | HECO-WP-H-002 | | | | 1,052 | | | | |
| 2c | Amortization of investment income differential | HECO-WP-H-003 | | | | 185 | | | | |
| 2d | Income tax on items to be replaced by synchronized interest | HECO-WP-H-003 | | | | (12,461) | | | | |
| 2e | Special Medical Needs Program discount (net of tax) | HECO-WP-H-005 | | | | 102 | | | | |
| 2f | Performance Incentive Mechanism (net of tax) | HECO-WP-H-006 | | | | 360 | | | | |
| 2g | Final Test Year Refund (net of tax) | HECO-WP-H-007 | | | | 32 | _ | | | |
| 3 | Ratemaking Basis Amounts - Post Tax | Sum Lines 1 & 2 | | | \$ | 128,221 | \$ | 2,109,963 | | |
| 4 | Ratemaking Capitalization | | | Balances | | Ratios | | Cost Rate | Weig | ghted Cost |
| 5 | Short-Term Debt (12 mo. Avg) | | \$ | 88,868 | | 3.68% | | 2.54% | | 0.09% |
| 6 | Long-Term Debt (Simple Avg) | | \$ | 939,810 | | 38.92% | | 5.03% | | 1.96% |
| 7 | Hybrid Securities (Simple Avg) | | \$ | 28,758 | | 1.19% | | 7.16% | | 0.09% |
| 8 | Preferred Stock (Simple Avg) | | \$ | 21,192 | | 0.88% | | 5.36% | | 0.05% |
| 9 | Common Equity (Simple Avg) | | \$ | 1,335,921 | | 55.33% | | 9.50% | | 5.26% |
| 10 | Total Capitalization | HECO-WP-H-004 | \$ | 2,414,549 | | 100.00% | | | | 7.45% |
| 11 | Line 3 Rate Base Amount | | | | | | \$ | 2,109,963 | | |
| 12 | Weighted Cost of Debt (Sum Lines 5-7) | | | | | | | 2.14% | | |
| 13 | Synchronized Interest Expense Income Tax Factor (Note 1) | | | | | | \$ | 45,153 1.346801347 | | |
| 13a | Synchronized Interest Expense, net of tax | | | | | | \$ | 33,526 | | |
| 14 | Post Tax Income Available for Preferred & Common (Line 3 - Lin | e 13a) | | | | | | | \$ | 94,695 |
| 17 | Less: Preferred Income Requirement (Line 8 Weighted Cost times | Rate Base) | | | | | | | | 1,055 |
| 18 | Income Available for Common Stock | | | | | | | | \$ | 93,640 |
| 19 | Ratemaking Equity Investment (Line 9 Ratio times Rate Base) | | | | | | | | | 1,167,400 |
| 20 | Return on Equity for Decoupling Earnings Sharing (Line 18/Line 1 | 9) | | | | | | | | 8.02% |
| 21 | Earnings Sharing Revenue Credits: | | В | asis Points | | | | | | |
| 22 | Achieved ROE (basis points) | | | 802 | | | | | | |
| 23 | Authorized Return (basis points) | | | 950 | | | | | | |
| 24 | ROE for sharing (basis points) | | | - | | | | | | |
| 25 | Sharing Grid nor DAM Dravision | | D: | irst 100 bp | | Next 200 bp | | ll over 300 bp | Dotono | van Tatal |
| 26 | Sharing Grid per RAM Provision Distribution of Excess ROE (basis points) | | 1.1 | 0 ost 100 op | 1 | 0 | А | 0 000 000 | касра | yer Total |
| 27 | Ratepayer Share of Excess Earnings | | | 25% | | 50% | | 90% | | |
| 28 | Ratepayer Earnings Share - Basis Points | | | - | | - | _ | - 2070 | | _ |
| 29 | Revenue Credit per Basis Point (Note 2) | | | | | | | | \$ | 173 |
| 30 | Earnings Sharing Revenue Credits (thousands) | | | | | | | | Ψ | 0 |
| | | | | | | | | | To S | ch A Line 5 |
| Footnot | | | | | | | | | | |
| 1 | Composite Federal & State Income Tax Rate Income Tax Factor (1 / 1-tax rate) | | | | | 25.75% 1.346801347 | | | | |
| 2 | Ratemaking Equity Investment (line 19) | | | | \$ | 1,167,400 | | | | |
| - | Basis Point = 1/100 of a percent | | | | ~ | 0.01% | | | | |
| | Earnings Required per Basis Point (thousands) | | | | \$ | 116.74 | | | | |
| | Times: Income Tax Conversion Factor | | | | - | 1.346801347 | | | | |
| | Pretax Income Required per Basis Point (thousands) | | | | \$ | 157 | | | | |
| | Times: Revenue Tax Conversion Factor | | | | | 1.0975 | | | | |
| | Revenue Requirement per Basis Point (thousands) | | | | \$ | 173 | | | | |
| | Per Docket No. 2018-0075, Decision and Order No. 35768, the Co | | | | | | | | | |

³ Per Docket No. 2018-0075, Decision and Order No. 35768, the Commission approved the Asset Transfer, Pole Licensing and Amended Joint Pole agreements. The settlement recovery of prior joint pole accounts receivables previously written-off was recorded to interest income (and excluded from Operating Income) in 2018. Upon further consideration, the recovery should have been recorded to Uncollectible Accounts (904) and included in Operating Income in 2018. (Taxes on the Joint Pole interest income was already included in Operating Income as of December 31, 2018.) Accordingly, an upward adjustment of \$696,636 is being made to Operating Income in the earnings sharing mechanism calculation.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK PUC-ORDERED MAJOR OR BASELINE CAPITAL PROJECTS CREDITS

| Line | | | |
|------|-------------|-----------|--------------|
| No. | Description | Reference | Amount \$000 |
| | (a) | (b) | (c) |

This Schedule has not been developed yet and will be developed only when/as needed.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RAM CAP

| Line No. | Description | Reference | Amo | ount \$000 |
|----------|--|-----------------|-----|------------|
| | (a) | (b) | | (c) |
| 1 | Last Rate Order Target Annual Revenues | Schedule B1 | \$ | 599,974 |
| 2 | 2018 RAM Cap Increase excluding Exceptional & Other Matters (net of Revenue Tax) | Note 2 | | 12,599 |
| 3 | 2018 Target Revenues Subject to Escalation | Line 1 + Line 2 | | 612,573 |
| 4 | 2019 GDP Price Index | HECO-WP-C-002 | | 2.10% |
| 5 | 2019 RAM Cap Increase Excluding Exceptional & Other Matters | | | 12,864 |
| 6 | RAM Cap for 2018 RAM Revenue Adjustment | Line 2 | | 12,599 |
| 7 | RAM Cap for 2019 RAM Revenue Adjustment | Line 5 + Line 6 | | 25,463 |
| 8 | Revenue Tax Factor (1/(1-8.885%)) | | | 1.0975 |
| 9 | RAM Cap for 2019 RAM Revenue Adjustment | Line 7 x Line 8 | \$ | 27,946 |
| | | | To | o Sch Al |

Note 1 <u>Target Revenues</u>:

See Decision and Order No. 32735, filed March 31, 2015, paragraph 107, page 94:

"The RAM Cap shall be based on the Target Revenues determined in accordance with the RBA and RAM tariffs as provided below ("Basis"), times the cumulative annually compounded increase(s) in GDPPI for intervening years, adjusted to include applicable revenue taxes."

The RAM basis for the calculation of the RAM Revenue Adjustment cap shall be the target revenues determined in accordance with the RBA tariff based on the results of the Company's most recent interim or final rate case decision.

Note 2 See Transmittal No. 18-01 (Decoupling) - Hawaiian Electric Company RBA Rate Adjustment, Schedule J for 2018 RAM Revenue Adjustment Cap of \$13,828 (\$12,599 net of revenue tax).

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK EXCEPTIONAL & OTHER MATTERS

| Line No. | Description | Reference | Amount \$000 |
|----------|---|-----------|-------------------|
| | (a) | (b) | (c) |
| 1 | None | | |
| 2 | 2019 Revenue Adjustment for Exceptional & Other Matters | | \$ - To Sch A1 |

Note 1 <u>Exceptional and Other Matters:</u>

See Order No. 32735, filed March 31, 2015, paragraph 107, page 94 - 95:

"The Basis used in determining the RAM Cap shall be adjusted to exclude or otherwise appropriately account for adjustments for the recovery of revenues for previously explicitly stipulated and approved exceptional matters or other matters specifically ordered by the commission, which shall, in any event, be recovered fully without respect to any limitations resulting from application of the RAM Cap."

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK MAJOR PROJECT INTERIM RECOVERY

| Line No. | Description | Reference | Am | ount \$000 |
|----------|---|-------------|-----------|-----------------------|
| | (a) | (b) | | (c) |
| 1 2 | Schofield Generating Station Docket No. 2017-0213 | Schedule L1 | \$ | 18,051 |
| 3 | Revenue Tax Factor (1/(1-8.885%)) | | | 1.0975 |
| 4 | Major Project Interim Recovery Total | | \$ To Sch | 19,811 B1, line 15 |

Note: Per Notice Transmittal to Update Target Revenue for Schofield Generating Station through the Major Project Interim Recovery Adjustment Recovery Mechanism, filed February 7, 2019, Transmittal No. 19-01 effective January 1, 2019. See Schedule L1.

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK

REVENUE REQUIREMENT AND DETERMINATION OF MAJOR PROJECT INTERIM RECOVERY MPIR PROJECT

\$ in thousands

| Line No. | Description | Reference | | ecorded at 2/31/2018 | 2019 Activity | | Ending Balance of 12/31/19 | Average Balance | | MPIR |
|----------|---|--------------------------------|--------|----------------------|------------------|----|----------------------------------|--------------------|------|------------|
| | (a) | (b) | | (c) | (d) | | (e) | (f)=((c)+(e))/2 | | (g) |
| 1 2 | Return on Investment - Schofield Generating Station Gross Plant in Service (not to exceed PUC approved amount) Accum Depreciation | HECO-WP-L-001 HECO-WP-L-001 | | 141,570 | - (4,586) | | 141,570 (4,586) | 141,570 (2,293) | | |
| 3 | Net Cost of Plant in Service | | | 141,570 | (4,586) | | 136,984 | 139,277 | | |
| 4 | Fuel Inventory - Avoided | Note 3 | | (1,534) | - | | (1,534) | (1,534) | | |
| 5 | M&S Inventory | Note 3 | | 100 | - | | 100 | 100 | | |
| 6 | Total Additions | | | (1,434) | - | | (1,434) | (1,434) | | |
| 7 | CIAC | Not Applicable | | - | - | | - | - | | |
| 8 | ADIT | HECO-WP-L-002 | | (8,653) | (1,540) | | (10,193) | (9,423) | | |
| 9 | State ITC | HECO-WP-L-002 | | (4,124) | 412 | | (3,712) | (3,918) | | |
| 10 | Total Deductions | | | (12,777) | (1,128) | | (13,905) | (13,341) | | |
| 11 | Total Rate Base | | \$ | 127,359 | \$ (5,713) | \$ | 121,646 | 124,502 | | |
| 12 | Average Rate Base | | | | | | | \$ 124,502 | | |
| 13 | Rate of Return (grossed-up for income taxes, before revenue ta | Note 4 | | | | | - | 9.47% | | |
| 14 | Annualized Return on Investment (before revenue taxes) | | | | | | | | \$ | 11,790 |
| 15 | Depreciation Expense (Note 1) | HECO-WP-L-001 | | | | | | 4,586 | | |
| 16 | Operating & Maintenance Expense | Note 2 | | | | | | 2,087 | | |
| 16a | Prior year reconciliation of O&M to actuals | Note 2 | | | | | | - | | |
| 17 | Amortization of State ITC | see line 6 | | | | | | (412) | | |
| 18 | Lease Rent Expense | Not Applicable | | | | | | - | | |
| 19 | Other Expense | Not Applicable | | | | | - | - | _ | |
| 20 | Total Expenses | | | | | | | | \$ | 6,260 |
| 21 | Total Major Project Interim Recovery | | | | | | | | \$ | 18,051 |
| 22 | Revenue Tax Factor (1/(1-8.885%)) | | | | | | | | | 1.0975 |
| 23 | Annualized Revenue for Major Project Interim Recovery | | | | | | | | \$ | 19,810.8 |
| | | | | | | | | ٦ | Γo S | ch B & B1 |
| | | | | | | Re | econciliation | n to Schedule I | 31 (| Info Only) |
| | | | | | | | | Oct - Dec 18 | | 2019 |
| | | | Annu | alized Rev | enue for MPIR | | 6,600 | \$ 8,561 | \$ | 19,811 |
| | | | | | Rev Tax Adj | \$ | (586) | \$ (761) | \$ | (1,760) |
| | | D (1 |) (DII | D C 37 | | Ф | (01.4 | Φ 7.000 | Ф | 10.051 |

Note 1: Depreciation expense is recorded beginning in the year after an asset is placed in service, therefore, depreciation expense is zero in year 1. The revenue requirement for year 2 and thereafter will include depreciation expense at existing, approved depreciation accrual rates at the time of filing.

Note 2: Total O&M expense is estimated to cost \$1.787 million annually for year 1 (\$2.087 million annually during the interim period thereafter), as referenced within Attachment 1 - SGS Business Case Revenue Requirement Update and approved in Order No. 35953, filed December 14, 2018.

Prorated MPIR for Year 1 excl Rev Tax \$

Incremental \$

6.014 \$

6,014

Note 5

7.800 \$ 18.051

1.787

Note 6

10,250

- Note 3: Decision and Order No. 35556 dated June 27, 2018 in Docket No. 2017-0213.
- Note 4: Transmittal No. 18-01 (Decoupling) Hawaiian Electric's RBA Rate Adjustment, Schedule D, filed May 29, 2018.
- Note 5: MPIR Revenues effective July 1, 2018 approved in Order No. 35647, issued August 15, 2018 in Docket No. 2017-0213.
- Note 6: MPIR Revenues effective October 1, 2018 filed December 21, 2018 in Docket No. 2017-0213.

HAWAIIAN ELECTRIC COMPANY, INC. <u>DECOUPLING CALCULATION WORKBOOK</u> 2018 PERFORMANCE INCENTIVE MECHANISMS

| | 2018 Annual | 2018 | | | | (Penalty) / Reward |
|---|----------------|-----------|-------------|-------------|------------------|-------------------------------|
| _ | Total * | Target ** | Variance | Deadband ** | Maximum \$ ** | Amount |
| | (a) | (b) | (c)=(a)-(b) | (d) | (e) | 1.0 * (((b - a) / d) * e + e) |
| Service Quality: | | | | | | |
| Normalized T&D SAIFI | | | | | | |
| Without Exclusion | 1.253 | 1.112 | 0.141 | 0.089 | \$ 2,244,112 | \$ (1,306,645) |
| With Exclusion | 1.238 | 1.112 | 0.126 | 0.089 | \$ 2,244,112 | \$ (929,827) |
| Normalized T&D SAIDI | | | | | | |
| Without Exclusion | 111.94 | 99.10 | 12.84 | 9.033 | 2,244,112 | \$ (946,492) |
| With Exclusion | 106.41 | 99.10 | 7.31 | 9.033 | 2,244,112 | \$ - |
| Call Center Performance (I | Excludes Block | ed Calls) | | | | |
| ` | 83.97% | 79.66% | 4.31% | 3.00% | \$ 897,645 | \$ 391,972 |
| Phase 1 Renewable Energy RF First Allocation | | | | | | \$ 591,854 |
| | | | | Total W | ithout Exclusion | \$ (1,269,311) |
| | | | | | | To Sch A |
| | | | | Tota | l With Exclusion | \$ 53,998 |

Notes:

Exclusion represents 25kV Proactive Work, filed in Transmittal No. 18-05, Hawaiian Electric's Letter Request for Exclusion of 25kV Splice Replacement Work from Performance Incentive Mechanism Provision's SAIDI and SAIFI 2018 Calculation, filed December 18, 2018.

Recalculated 2019 PIMS to include 25kV Proactive Work.

^{*} See HECO-WP-M-002

^{**} See HECO-WP-M-001 (revised 05-21-19)

^{***} See HECO-WP-M-005

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK ON-BILL FINANCING COST RECOVERY

| | | Note 1 | | Cost Recov | ery (excluding | (Rev Tax) | Cost Recovery (including Rev Tax) | | | |
|------|----------------|------------------------|--------------------------|------------------------------|------------------------------------|------------------|--|-----------------------------|-----------|--|
| Line | <u>Company</u> | Customer Count a | Allocation b = a/total a | Total Recovery c = \$2,3 | 2019 Recovery 330,408 allowe | 2020 Recovery | $\begin{tabular}{lll} Total & 2019 & 2020 \\ Recovery & Recovery & Recovery \\ \hline with Rev Tax & with Rev Tax & with Rev Tax \\ \hline d = c * 1.0975 \\ \hline \end{tabular}$ | | | |
| 1 | НЕ | 305,456 | 66% | 1,537,150 To Sch B | 768,575 To Sch A | 768,575 | 1,687,022 | 843,511 To Sch B1 | 843,511 | |
| 2 | HL | 85,758 | 19% | 431,561 | 215,780 | 215,781 | 473,638 | 236,819 | 236,819 | |
| 3 | ME | 71,875 | 16% | 361,697 | 180,849 | 180,848 | 396,963 | 198,481 | 198,482 | |
| 4 | Total | 463,089 | 100% | 2,330,408 | 1,165,204 | 1,165,204 | 2,557,623 | 1,278,811 | 1,278,812 | |

Note 1: Statistical Report as of December 31, 2018.

Note 2: See Decision and Order No. 36212, Docket No. 2017-0102, filed March 11, 2019, pages 18-19. The Commission allowed the Companies to recover Program implementation costs over a period of two years, commencing with the 2019 RBA Rate Adjustment which will, if there are no major issues with the standard RBA Review Transmittal process, become effective on June 1, 2019.

Hawaiian Electric Company, Inc. Sales Forecast for June 2019 to May 2020 in GWh

| | | | | 2019 | | | | | | 2020 | | | |
|-------|------------|------------|------------|------------|-------|-------|-------|-------|------------|-------|------------|-------|--------------|
| • | <u>Jun</u> | <u>Jul</u> | <u>Aug</u> | <u>Sep</u> | Oct | Nov | Dec | Jan | <u>Feb</u> | Mar | <u>Apr</u> | May | <u>Total</u> |
| R | 126.7 | 141.7 | 151.2 | 146.2 | 143.0 | 131.9 | 130.4 | 132.1 | 118.6 | 120.1 | 116.7 | 121.7 | 1,580.3 |
| G | 24.2 | 25.6 | 26.5 | 25.3 | 26.0 | 23.9 | 24.1 | 22.6 | 22.8 | 23.9 | 23.7 | 24.6 | 293.2 |
| J | 148.0 | 159.0 | 160.8 | 157.3 | 158.4 | 145.6 | 139.3 | 139.4 | 140.8 | 141.7 | 144.9 | 152.0 | 1,787.2 |
| P | 233.6 | 250.5 | 261.0 | 246.4 | 249.4 | 230.6 | 225.1 | 219.6 | 214.0 | 223.5 | 225.2 | 232.1 | 2,811.0 |
| F | 1.8 | 1.9 | 1.7 | 1.6 | 1.6 | 1.4 | 1.4 | 1.3 | 1.3 | 1.5 | 1.3 | 1.4 | 18.2 |
| Total | 534.3 | 578.7 | 601.2 | 576.8 | 578.4 | 533.4 | 520.3 | 515.0 | 497.5 | 510.7 | 511.8 | 531.8 | 6,489.9 |

Source: Hawaiian Electric Company, Inc. February 2019 Sales Forecast Update.

Hawaiian Electric Company, Inc. Adjustment For Prior Year RBA Accrual Recovery of 12/31/16 RBA Balance

| | | | | 201 | 8 | | |
|---|------------|-------------|-------------|--------------|-----------|-------------------|-------------------|
| | • | January | February | March | April | May | Total |
| Billed RBA Revenues | Note 1 | 11,581,297 | 10,784,945 | 5,161,437 | 3,718,306 | 3,653,460 | 34,899,445 |
| Net Unbilled Revenues | Note 1 | (834) | (3,556,154) | (1,491,331) | 45,447 | 121,360 | (4,881,511) |
| Total Billed + Unbilled | | 11,580,464 | 7,228,791 | 3,670,106 | 3,763,752 | 3,774,820 | 30,017,934 |
| x % Share for RBA | Note 2 & 3 | 31.9352% | 63.5519% | 100.0327% | 100.0327% | 100.0327% | |
| RBA Revenues (Recovery of 12/31/16 RBA balance) | | 3,698,239 | 4,594,033 | 3,671,308 | 3,764,985 | 3,776,056 | 19,504,621 |
| | | < | S | chedule B2 | | | \longrightarrow |
| Less: Revenue Taxes | 0.08885 | (328,589) | (408,180) | (326,196) | (334,519) | (335,503) | (1,732,987) |
| RBA Revenues (Recovery of 12/31/16 RBA balance) | | 3,369,650 | 4,185,853 | 3,345,112 | 3,430,466 | 3,440,553 | 17,771,634 |
| net of Revenue Taxes | | | | Schedule B - | | \longrightarrow | |

^{*} Differences are due to rounding

Note 1: RBA rate adjustment revenues per the Billed reports and Unbilled reports include both RBA and RAM revenues. Therefore, an allocation % is utilized to determine RBA revenues.

Note 2: RBA Rate Adjustment Allocation for January 1, 2018 to February 15, 2018 is per Transmittal No. 17-02 (Decoupling) - RBA Rate Adjustment (filed March 31, 2017), Schedule A, Note (1). RBA Rate Adjustment Allocation for February 16, 2018 to May 31, 20018 is per Hawaiian Electric Revised Schedules Resulting from Interim Decision and Order No. 35100 as modified by Order No. 35229, and Order No. 35220, Exhibit 7, filed on January 19, 2018, which was approved by Order No. 35280, issued on February 9, 2018. See Note 3 below for prorated % share for RBA for February 2018.

Note 3: Prorated % Share for RBA by day resulting from 2017 Test Year Interim Rates, effective February 16, 2018, per Docket No. 2016-0328 - Hawaiian Electric 2017 Test Year Rate Case Hawaiian Electric Revised Schedules Resulting from Interim Decision and Order No. 35100 as modified by Order No. 35229 and Order No. 35220, Exhibit 7, filed on January 19, 2018. As approved by the Commission in Order No. 35280, Approving Revised Schedules of Operations and Tariff Sheets, filed on February 9, 2018.

| _ | RBA % | No of Days | Prorated RBA % | 6 |
|---------------|-----------|------------|----------------|---|
| Feb 1-Feb 15 | 31.9352% | 53.6% | 17.1081% | |
| Feb 16-Feb 28 | 100.0327% | 46.4% | 46.4438% | |
| | | | 63.5519% | |

Hawaiian Electric Company, Inc. Adjustment For Prior Year RBA Accrual Recovery of 12/31/17 RBA Balance

| | | | | | 20 | 18 | | | |
|---|---------|-------------|-----------|-----------|-------------|-----------|-----------|-------------------|-------------------|
| | | June | July | August | September | October | November | December | Total |
| Billed RBA Revenues | Note 1 | 4,701,823 | 5,771,562 | 6,185,543 | 6,034,935 | 6,400,115 | 5,842,574 | 5,503,361 | 40,439,912 |
| Net Unbilled Revenues | Note 1 | 990,752 | 364,534 | 81,590 | (85,985) | (137,876) | (175,257) | (57,177) | 980,581 |
| Total Billed + Unbilled | | 5,692,575 | 6,136,096 | 6,267,133 | 5,948,950 | 6,262,238 | 5,667,317 | 5,446,183 | 41,420,493 |
| x % Share for RBA | Note 2 | 79.6227% | 79.6227% | 79.6227% | 79.6227% | 79.6227% | 79.6227% | 79.6227% | |
| RBA Revenues (Recovery of 12/31/17 RBA balance) | | 4,532,582 | 4,885,725 | 4,990,061 | 4,736,715 | 4,986,163 | 4,512,471 | 4,336,398 | 32,980,115 |
| | | | | | Schedule B2 | | | | \longrightarrow |
| Less: Revenue Taxes | 0.08885 | (402,720) | (434,097) | (443,367) | (420,857) | (443,021) | (400,933) | (385,289) | (2,930,284) |
| RBA Revenues (Recovery of 12/31/17 RBA balance) | | 4,129,862 | 4,451,628 | 4,546,694 | 4,315,858 | 4,543,142 | 4,111,538 | 3,951,109 | 30,049,831 |
| net of Revenue Taxes | | | | | Schedule B | | | \longrightarrow | |

^{*} Differences are due to rounding

Note 1: RBA rate adjustment revenues per the Billed reports and Unbilled reports include both RBA and RAM revenues. Therefore, an allocation % is utilized to determine RBA revenues.

Note 2: RBA Rate Adjustment Allocation for June 1, 2018 - May 31, 2019 is per Transmittal No. 18-01 (Decoupling) - RBA Rate Adjustment (Filed May, 29, 2018), Schedule A, Note (1).

Hawaiian Electric Company, Inc. Bargaining Unit Wage Increase per Collective Bargaining Agreements

| Wage Increases: (non-compounded) | | | 1/1/2014 | 3.00% | (Note 1) | |
|----------------------------------|---|--|--|---|---|----------------------------------|
| | (non-con | npounded) | 1/1/2015 | 3.00% | (Note 1) | |
| | | | 1/1/2016 | 3.25% | (Note 1) | |
| | | | 1/1/2017 | 3.00% | (Note 1) | |
| | | | 1/1/2018 | 3.00% | (Note 1) | |
| | | | 1/1/2010 | 2 000/ | Q1 (Q) | |
| | | | 1/1/2019 | 3.00% | (Note 2) | |
| | | | 1/1/2020 | 3.00% | (Note 2) | |
| | | | 1/1/2021 | 3.00% | (Note 2) | |
| | | | | | | |
| | | | Increase | Wage Rate | | r Cost |
| | Increase effective | | Amount | With Increase | Escalat | ion Rate |
| | | | | | | |
| _ | | _ | (a) | (b) or | (| c) |
| - | | | (a) | (b) or prev (b) + (a) | , | c) ev (b) -1 |
| 1.00 | 3 00% | 1/1/2014 | . , | prev (b) + (a) | , | * |
| 1.00 | 3.00% 3.00% | 1/1/2014 1/1/2015 | (a) 0.0300 0.0300 | | , | * |
| 1.00 | | | 0.0300 | prev (b) + (a) 1.0300 | (b) / pro | ev (b) -1 |
| 1.00 | 3.00% | 1/1/2015 | 0.0300 0.0300 | prev (b) + (a) 1.0300 1.0600 | (b) / pro | 2.91% |
| 1.00 | 3.00% 3.25% | 1/1/2015 1/1/2016 | 0.0300 0.0300 0.0325 | prev (b) + (a) 1.0300 1.0600 1.0925 | (b) / pro 0.0291 0.0307 | 2.91% 3.07% |
| | 3.00% 3.25% 3.00% 3.00% | 1/1/2015 1/1/2016 1/1/2017 1/1/2018 | 0.0300 0.0300 0.0325 0.0300 0.0300 | 1.0300 1.0600 1.0925 1.1225 1.1525 | (b) / pro 0.0291 0.0307 0.0275 | 2.91% 3.07% 2.75% |
| 1.00 | 3.00% 3.25% 3.00% 3.00% 3.00% | 1/1/2015 1/1/2016 1/1/2017 1/1/2018 1/1/2019 | 0.0300 0.0300 0.0325 0.0300 0.0300 | prev (b) + (a) 1.0300 1.0600 1.0925 1.1225 1.1525 1.0300 | (b) / pro 0.0291 0.0307 0.0275 0.0267 | 2.91% 3.07% 2.75% 2.67% |
| | 3.00% 3.25% 3.00% 3.00% | 1/1/2015 1/1/2016 1/1/2017 1/1/2018 | 0.0300 0.0300 0.0325 0.0300 0.0300 | 1.0300 1.0600 1.0925 1.1225 1.1525 | (b) / pro 0.0291 0.0307 0.0275 | 2.91% 3.07% 2.75% |

Note 1: Agreement ratified by the IBEW, Local 1260 on November 1, 2012, reflects a 3.00% increase effective 1/1/2014, 1/1/2015, 1/1/2017 and 1/1/2018 and a 3.25% increase effective 1/1/2016, based on 1/1/2013 rates.

Note 2: Agreement ratified by the IBEW, Local 1260 on July 31, 2018, reflects a 3.00% increase effective 1/1/2019, 1/1/2020 and 1/1/2021 based on 1/1/2018 rates. See also HECO-WP-C-003.

Blue Chip Economic Indicators®

Top Analysts' Forecasts of the U.S. Economic Outlook for the Year Ahead Vol. 44, No. 2, February 10, 2019

2019 Real GDP Forecast Drops to 2.5%

| | | ъ | . 61 | | | | GDP 1 | | | | | | l m . 11 | 1 : 2010 | 2010 |
|---|-------------------|---------------|---------------------|---------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|-----------------|---------------------|-------------------------|
| FEBRUARY 2019 | 1 | - Percei 2 | nt Change 3 | 2019 Fro 4 | m 2018 5 | (Full Year- | -Over-Prio 7 | r Year) 8 | 9 | Ave 10 | rage For 2 | 12 | - Total U 13 | Jnits-2019 - 14 | 2019 15 |
| Forecast For 2019 | _ | | | | | | Personal | | | Treas. | | Unempl. | | Auto&Light | Net |
| SOURCE: | (Chained) | | GDP | Price | Prod. | | Cons. Exp. | | | Bills | Notes | Rate | _ | Truck Sales | Exports |
| SOURCE. | (2012\$) | Index | (Cur.\$) | Index | (Total) | | (2012\$) | (2012\$) | (Cur.\$) | 3-mo. | 10-Year | (Civ.) | (Mil.) | (Mil.) | (2012\$) |
| Action Economics | 2.9 H | | 5.0 | 1.9 | 3.5 | 2.8 | 3.1 H | 4.9 | 7.5 | 2.7 | 3.0 | 3.7 | 1.28 | 17.1 | -967.9 |
| Amherst Pierpont Securities | 2.9 H | | 5.4 H | 2.5 H | 3.5 | 2.8 | 3.1 H | | 7.5 | 2.6 | 3.2 | 3.6 | 1.29 | 16.9 | -960.0 |
| MUFG Union Bank | 2.9 H | | 5.3 | 1.8 | 3.2 | na | 2.9 | 3.8 | 5.5 | 2.4 | 3.0 | 3.7 | 1.29 | 17.2 H | -960.0 |
| Barclays, US* RDQ Economics | 2.8 2.8 | 1.9 2.0 | 4.8 4.9 | 1.4 2.1 | 2.8 3.7 H | na [2.5 | 2.9 2.9 | 5.1 5.6 | na 8.5 H | na 2.7 | na 3.1 | 3.7 3.5 | na 1.30 | na 17.2 H | -1024.5 -1021.6 |
| SOM Economics, Inc. | 2.8 | 2.0 | 4.8 | 2.0 | 3.7 | 2.5 | 2.5 | 4.2 | 5.0 | 2.6 | 2.9 | 3.6 | 1.25 | 16.8 | -938.0 |
| U.S. Chamber of Commerce | 2.8 | 2.1 | 4.9 | 2.1 | 3.2 | 2.6 | 2.9 | 5.2 | 4.5 | 2.6 | 2.9 | 3.9 | 1.30 | na | -932.7 |
| Credit Suisse | 2.7 | 2.0 | 4.7 | 1.8 | na | na | 2.9 | 3.0 | na | na | na | 3.7 | na | na | -966.2 |
| Moody's Analytics, US | 2.7 | 2.3 | 5.1 | 2.1 | 2.9 | 2.2 | 2.8 | 5.3 | 6.1 | 2.6 | 3.1 | 3.6 | 1.38 H | | -1080.7 L |
| NatWest Markets PNC Financial Services Group | 2.7 | 2.0 | 4.8 | 1.8 | 2.4 | 2.5 | 3.0 | 5.8 H | 5.0 | 2.7 | 2.8 | 3.5 | 1.20 | 16.5 | -980.0 |
| RBC Capital Markets | 2.7 2.7 | 1.7 2.1 | 4.4 4.8 | 1.8 1.7 | 2.9 na | 1.3 L na | 2.7 2.9 | 4.6 5.2 | na na | 2.5 na | 2.9 3.1 | 3.6 3.6 | 1.30 1.28 | 17.0 17.0 | -1013.0 -980.0 |
| The Conference Board, US* | 2.7 | na | 4.8 | 2.1 | na | 2.5 | 2.8 | 4.4 | 6.2 | 2.5 | 2.8 | 3.7 | 1.24 | 17.0 17.2 H | -1020.3 |
| Comerica** | 2.6 | 2.0 | 4.6 | 1.9 | 3.5 | 2.9 | 2.6 | 4.1 | na | 2.5 | 2.9 | 3.7 | 1.24 | 16.6 | -942.4 |
| Georgia State University* | 2.6 | 2.4 | 5.0 | 2.0 | 2.6 | 2.5 | 2.8 | 5.1 | 4.4 | 2.5 | 3.2 | 4.1 | 1.24 | 16.3 | -1021.3 |
| High Frequency Economics | 2.6 | 2.0 | 4.7 | 1.9 | 2.8 | 2.9 | 3.0 | 3.3 | 1.7 | 2.4 | 2.9 | 3.8 | 1.22 | 16.9 | -953.1 |
| Naroff Economic Advisors* | 2.6 | 2.1 | 4.8 | 2.0 | 2.6 | 2.3 | 2.6 | 2.9 | 4.3 | 2.8 | 3.2 | 3.7 | 1.30 | 16.7 | -977.0 |
| Point72 Asset Management* Regions Financial Corporation | 2.6 2.6 | 1.9 2.5 H | 4.5 5.1 | 1.9 1.7 | 3.1 2.9 | 2.3 2.3 | 2.8 3.0 | 5.4 4.4 | 6.2 4.5 | 2.5 2.6 | 2.8 2.8 | 3.7 3.7 | 1.20 1.25 | 16.7 16.9 | -1058.8 -954.4 |
| Turning Points (Micrometrics) | 2.6 | 2.5 H 2.4 | 5.1 | 2.1 | 2.9 | 2.3 | 2.7 | 4.4 | 2.8 | 2.6 | 2.8 3.4 H | 3.7 | 1.25 1.18 L | 16.9 16.7 | -954.4 -985.0 |
| ACT Research | 2.5 | 2.0 | 4.5 | 1.9 | 2.8 | 3.0 | 2.7 | 5.0 | na | 2.4 | 2.8 | 3.7 | 1.31 | 16.6 | -1012.7 |
| Bank of America-Merrill Lynch, US** | 2.5 | 2.0 | 4.6 | 1.6 | 2.7 | na | 2.6 | 3.4 | na | 2.4 | 2.8 | 3.7 | 1.29 | 16.6 | -969.1 |
| Eaton Corporation | 2.5 | 2.3 | 4.8 | 2.0 | 2.5 | 2.7 | 2.6 | 4.1 | na | 2.6 | 3.0 | 3.7 | 1.30 | 16.8 | -1006.2 |
| Econoclast | 2.5 | 2.0 | 4.5 | 2.0 | 2.8 | 2.2 | 2.8 | 3.5 | 5.2 | 2.4 | 2.8 | 3.8 | 1.25 | 16.3 | -989.0 |
| Fannie Mae FedEx Corporation, US | 2.5 | 2.3 | 4.8 | 2.0 | 2.5 | 2.4 | 2.6 | 3.9 | 1.5 | 2.5 | 2.7 | 3.7 | 1.26 | 16.7 | -1020.9 |
| Ford Motor Company* | 2.5 2.5 | 2.1 2.1 | 4.5 4.5 | 1.9 2.2 | 2.7 2.6 | 2.5 2.5 | 2.6 2.5 | 4.6 3.9 | 3.9 na | 2.6 na | 3.0 2.7 | 3.6 3.7 | 1.27 1.27 | 16.8 na | -1008.0 -1003.0 |
| General Motors Corporation, US | 2.5 | 2.1 | 4.6 | 2.0 | 2.8 | 2.6 | 2.7 | 3.8 | 1.8 | 2.6 | 2.9 | 3.6 | 1.28 | na | -857.3 |
| Inforum - Univ. of Maryland | 2.5 | 2.1 | 4.7 | 2.0 | 2.7 | 2.4 | 2.6 | 4.3 | 4.5 | 2.7 | 3.0 | 3.7 | 1.27 | 16.7 | -980.4 |
| Moody's Capital Markets, US* | 2.5 | 1.9 | 4.5 | 1.6 | 3.5 | 2.6 | 2.8 | 3.8 | 4.3 | 2.4 | 2.8 | 3.6 | 1.28 | 16.9 | -967.7 |
| National Assn. of Home Builders | 2.5 | 2.3 | 4.5 | 2.0 | 1.7 L | | 2.6 | 4.0 | na | 2.7 | 3.0 | 3.6 | 1.27 | 16.8 | -1020.0 |
| UCLA Business Forecasting Proj.* | 2.5 | 2.2 | 4.7 | 2.2 | 2.5 | 2.5 | 2.6 | 4.3 | 4.0 | 2.5 | 3.0 | 3.6 | 1.31 | 16.6 | -1035.0 |
| Wells Fargo, US AIG | 2.5 2.4 | 1.9 2.3 | 4.4 4.7 | 2.1 2.0 | 3.0 2.5 | 2.9 2.7 | 2.9 2.5 | 3.8 3.8 | 4.4 4.8 | 2.6 2.4 | 3.0 2.8 | 3.7 3.5 | 1.30 1.27 | 16.7 16.7 | -1010.7 -1009.2 |
| BMO Capital Markets* | 2.4 | 2.3 | 4.7 | 2.0 | 3.3 | 2.1 | 2.7 | 3.3 | 5.9 | 2.5 | 2.8 | 3.6 | 1.24 | 16.7 | -1009.2 |
| Daiwa Capital Markets America | 2.4 | 2.0 | 4.5 | 1.9 | 2.5 | 2.2 | 2.9 | 3.6 | 5.0 | 2.4 | 2.8 | 3.8 | 1.19 | 16.7 | -1012.0 |
| Goldman Sachs & Co.** | 2.4 | 2.0 | 4.3 | 1.8 | 1.7 L | 3.4 H | 2.8 | 3.3 | na | 2.7 | 2.9 | 3.7 | 1.27 | na | -975.5 |
| Macroeconomic Advisers by IHS Markit** | 2.4 | 2.1 | 4.5 | 2.0 | 2.7 | 2.5 | 2.6 | 3.6 | 1.5 | 2.6 | 2.9 | 3.6 | 1.28 | 16.8 | -1021.1 |
| MacroFin Analytics & Rutgers Bus School | 2.4 | 2.2 | 4.6 | 2.0 | 3.1 | 2.3 | 2.5 | 3.8 | 4.7 | 2.6 | 2.9 | 3.9 | 1.26 | 16.8 | -943.8 |
| Nomura Securities, US Northern Trust Company* | 2.4 2.4 | 2.3 1.8 | 4.7 4.2 | 1.7 2.0 | 2.7 2.7 | 2.1 2.2 | 2.9 2.7 | 2.7 3.1 | na 4.1 | na 2.7 | 2.7 3.2 | 3.4 L 3.6 | 1.25 1.28 | 16.9 16.6 | -1044.3 -989.9 |
| Oxford Economics, US | 2.4 | 1.7 | 4.2 | 1.7 | 2.7 | 2.4 | 2.8 | 3.3 | -2.4 L | 2.7 | 2.8 | 3.7 | 1.29 | 17.0 | -989.9 |
| Societe Generale | 2.4 | 1.9 | 4.3 | 1.6 | na | 2.5 | 2.8 | 4.1 | 3.2 | 2.6 | 2.8 | 3.6 | 1.23 | 16.7 | -1011.4 |
| UBS | 2.4 | 2.0 | 4.5 | 1.5 | 2.4 | 3.2 | 2.4 | 3.0 | na | 2.5 | na | 3.7 | 1.33 | na | -1010.9 |
| Economist Intelligence Unit, UK | 2.3 | 1.8 | 4.1 | 2.2 | 2.6 | 2.0 | 2.3 | 3.0 | na | 2.6 | 2.7 | 4.1 | 1.26 | 16.2 | -915.0 |
| Grant Thorton/Diane Swonk | 2.3 | 2.1 | 4.4 | 1.9 | 2.6 | 2.5 | 2.6 | 3.4 | 1.2 | 2.4 | 2.8 | 3.7 | 1.24 | | -1010.4 |
| JP MorganChase, US MacroPolicy Perspectives | 2.3 2.3 | 1.8 1.7 | 4.1 4.0 | 1.4 1.3 L | 2.0 na | 2.7 na | 2.9 2.9 | 3.4 3.6 | 3.5 2.0 | na 2.6 | 3.1 2.8 | 3.7 3.8 | 1.28 1.22 | 17.0 16.7 | -1058.0 -1051.0 |
| Morgan Stanley, US** | 2.3 | 2.0 | 4.0 | 1.5 L 1.8 | па 3.4 | па 2.6 | 2.5 | 2.6 | na | 2.0 2.9 H | 2.8 | 3.5 | 1.22 | 10.7 na | -1031.0 |
| S&P Global, US* | 2.3 | 2.1 | 4.4 | 2.2 | 2.5 | 1.8 | 2.6 | 3.5 | 0.7 | 2.7 | 3.0 | 3.6 | 1.30 | 16.8 | -1006.3 |
| Swiss Re | 2.2 | 1.6 L | 3.8 L | 1.9 | 2.4 | 2.8 | 2.7 | 3.2 | 4.5 | 2.5 | 3.0 | 3.9 | 1.27 | 16.9 | -1019.1 |
| BNP Paribas North America | 2.1 | na | na | 1.4 | 2.4 | 2.6 | 2.5 | 3.0 | na | 2.8 | 3.4 H | 3.6 | na | na | -1008.0 |
| ACIMA Private Wealth, US | 1.7 L | 2.1 | 3.8 L | 1.8 | 2.0 | 1.5 | 1.5 L | 1.6 L | na | 2.1 L | 2.3 L | 4.2 H | 1.20 | 15.7 L | -832.5 H |
| 2019 Consensus: February Avg. Top 10 Avg. | | 2.1 2.4 | 4.6 5.1 | 1.9 2.2 | 2.8 3.4 | 2.5 2.9 | 2.7 3.0 | 3.9 5.3 | 4.1 6.4 | 2.6 2.8 | 2.9 3.2 | 3.7 3.9 | 1.27 1.31 | 16.7 17.1 | -991.1 -922.9 |
| Bottom 10 Avg. | | 1.8 | 4.1 | 1.5 | 2.2 | 2.0 | 2.4 | 2.8 | 1.4 | 2.4 | 2.7 | 3.5 | 1.21 | 16.4 | -1041.6 |
| January Avg. | | 2.1 | 4.7 | 1.9 | 2.7 | 2.5 | 2.7 | 4.1 | 4.6 | 2.6 | 3.0 | 3.6 | 1.27 | 16.8 | -989.7 |
| , , | | | | | | | | | | | | | | | |
| Historical data 2015 | | 1.0 | 4.0 | 0.1 | -1.0 | 4.1 | 3.7 | 1.8 | -2.9 | 0.1 | 2.1 | 5.3 | 1.11 | 17.4 | -724.9 |
| 2016 | | 1.1 | 2.7 | 1.3 | -1.9 | 1.7 | 2.7 | 0.5 | -1.1 | 0.3 | 1.8 | 4.9 | 1.17 | 17.5 | -786.2 |
| 2017 | | 1.9 2.2 f | 4.2 | 2.1 | 1.6 | 2.6 | 2.5 | 5.3 | 3.2 | 0.9 | 2.3 | 4.4 | 1.20 | 17.1 | -858.7 |
| 2018 | 2.9 f f=Dec 20 | | 5.2 f sensus For | 2.4 | 4.1 | 2.8 f | 2.7 f | 6.8 f | 7.8 f | 2.0 | 2.9 | 3.9 | 1.26 f | 17.2 | -908.4 f |
| Number of Forecasts Changed From a Month | | . o con. | sensus 1 01 | ccusio | | | | | | | | | | | |
| Down | | 17 | 26 | 18 | 10 | 8 | 14 | 19 | 12 | 25 | 26 | 6 | 9 | 13 | 14 |
| Same | | 24 | 26 14 | 17 | 13 | 8 26 | 31 | 20 | 16 | 16 | 26 15 | 23 | 30 | 23 | 21 |
| Up | | 6 | 8 | 14 | 22 | 11 | 4 | 9 | 3 | 2 | 2 | 20 | 6 | 1 | 13 |
| February Median | | 2.0 | 4.6 | 1.9 | 2.7 | 2.5 | 2.7 | 3.8 | 4.5 | 2.6 | 2.9 | 3.7 | 1.27 | 16.8 | -1006.2 |
| February Diffusion Index | | | | 1.9 46 % | 63 % | | 40 % | | | | 2.9 | 5.7 64 % | 47 % | | -1006.2 49 % |
| *E | 33 70 | 23 /0 | 21 /0 | 70 /0 | | | Chi- F | | 23 70 | _3 /0 | /0 | J 1 /0 | ., /0 | 31 /0 | 1,7 /0 |

^{*}Former winner of annual Lawrence R. Klein Award for Blue Chip Forecast Accuracy. **Denotes two-time winner.

HAWAIIAN ELECTRIC COMPANY. INC.

| | E | XHIBIT A | 3.00% | 3.00% | 3.00% |
|--|---|-------------|------------|----------|----------|
| JOB CODE | JOB TITLE | | 1/1/2019 | 1/1/2020 | 1/1/2021 |
| CL829 | CASHIER | | | | |
| | 1st 3 mos. | | 24.19 | 24.89 | 25.59 |
| | Next 3 mos. | | 25.31 | 26.05 | 26.79 |
| | Next 3 mos. | | 26.60 | 27.37 | 28.14 |
| | Next 6 mos. | | 27.91 | 28.72 | 29.53 |
| | Next 6 mos. | | 29.26 | 30.11 | 30.96 |
| | Thereafter | | 30.71 | 31.60 | 32.49 |
| CLC05 CL18 CL20 CL22 CL104 | SR INFORMATION STORAGE SYSTEM OPERATION CLERK TEST AND SUBSTATION CLE DESKTOP PUBLISHING OPER POWER PLANT CLERK | (ERK | T OPERATOR | | |
| CL257 | MOTOR FLEET CLERK | | | | |
| CL328 | METER CLERK | | | | |
| CL21 | PRINT PRODUCTION OPERA | TOR | | | |
| CL684 | COMPUTER SYSTEMS OPER | RATOR TRAIN | NEE | | |
| | 1st 3 mos. | | 24.71 | 25.43 | 26.15 |
| | Next 3 mos. | | 25.95 | 26.71 | 27.47 |
| | Next 3 mos. | | 27.20 | 27.99 | 28.78 |
| | Next 6 mos. | | 28.55 | 29.38 | 30.21 |
| | Next 6 mos. | | 29.99 | 30.86 | 31.73 |
| | Thereafter | | 31.40 | 32.31 | 33.22 |
| | | | | | |
| TL180 | CONDENSER CLEANER | | | | |
| | 1st 6 mos. | | 27.20 | 27.99 | 28.78 |
| | Next 6 mos. | | 28.55 | 29.38 | 30.21 |
| | Next 6 mos. | | 29.99 | 30.86 | 31.73 |
| | Thereafter | | 31.40 | 32.31 | 33.22 |
| CLA49 CLA81 CL12 CL13 CL15 | PROJECT CLERK STANDARDS CLERK JOINT POLE AIDE PROJECT CLERK FIELD SERVICE CLERK | | | | |
| | 1st 3 mos. | | 25.31 | 26.05 | 26.79 |
| | Next 3 mos. | | 26.60 | 27.37 | 28.14 |
| | Next 3 mos. | | 27.91 | 28.72 | 29.53 |
| | Next 6 mos. | | 29.26 | 30.11 | 30.96 |
| | Next 6 mos. | | 30.71 | 31.60 | 32.49 |
| | Thereafter | | 32.27 | 33.21 | 34.15 |
| T335 | TRUCK DRIVER A 1/ | /1/2018 | 32.31 | 33.25 | 34.19 |
| CL406 | METER READER | | | | |
| | | 23.99 | 24.71 | 25.43 | 26.15 |
| | Next 3 mos. | 25.19 | 25.95 | 26.71 | 27.47 |
| | | 27.72 | 28.55 | 29.38 | 30.21 |
| | | 29.12 | 29.99 | 30.86 | 31.73 |
| | | 30.49 | 31.40 | 32.31 | 33.22 |
| | Thereafter | 32.03 | 32.99 | 33.95 | 34.91 |
| | | | x 1.03 | x 1.0291 | x 1.0283 |

CIAC Treatment Resulting from FERC Adoption

Adoption of FERC USOA required a change in presentation change to Contributions in Aid of Construction (CIAC)

Prior to October 2018, and in establishing rates in previous test year rate cases, the Company's presentation of contributions in aid of construction ("CIAC") followed the guidelines of the National Associate of Regulatory Utility Commissioners Uniform System of Accounts (NARUC USOA). Under the NARUC reporting system, CIAC is reported under an exclusive account, account 271, which includes donations or contributions in cash, services or property from states, municipalities, or other governmental agencies, individuals and others for construction purposes. All CIAC was incorporated as a deduction in the calculation of rate base in part because the Companies' systems did not facilitate on-going reporting of CIAC related to plant in service separate from CIAC related to construction work in progress ("CWIP").

The Commission approved the Companies' request to change to Federal Energy Regulatory Commission Uniform System of Accounts (FERC USOA), beginning with the implementation of the Companies' new ERP/EAM, in Decision and Order No. 31757, issued December 19, 2013 in Docket No. 2013-0007.

Beginning in October 2018 with the transition to FERC, the net balance of CIAC in account 271 less the CIAC amortization to be recorded for October to December 2018, was credited against the account balances charged with the cost of construction, i.e., gross plant in service and CWIP, resulting in the account becoming zero (i.e. "0") at December 31, 2018.

Ratemaking treatment for CIAC

The Company's ratemaking treatment of contributions in aid of construction is summarized below:

- CIAC associated with Plant in Service When a utility capital project is placed into service, the plant in service net of the associated CIAC is included as net cost of plant in service in rate base. The plant in service net of the CIAC is included as part of the basis for the depreciation accrual the year after it is placed into service (i.e. January 1 of the year after it is placed into service).
- CIAC associated with CWIP For book purposes, CIAC that is received while projects are still under construction (i.e. in CWIP) will offset the costs incurred and is presented net in CWIP. The CWIP net of the associated CIAC is subject to the AFUDC accrual if there is a net CWIP balance. In the next rate case, the Company will request CIAC associated with CWIP be excluded from the rate base calculation since CWIP net of

CIAC earns AFUDC. CIAC associated with CWIP is however, included in rate base in this RAM calculation for consistency with the 2017 Test Year treatment. See further discussion of Company's requested treatment of CIAC associated with CWIP below.

• Developer Advances - Cash contributions received in advance of construction of a utility capital project that are temporarily not classified as CIAC because the funds received are in excess of the specific project expenditures. The balance of developer advances is presented as funds from non-investors, included in its own exclusive account, and deducted in the calculation of rate base. As project costs are incurred for a utility capital project, an equal portion of developer advances associated with the project will be reclassified as CIAC and credit the accounts charged with the cost of construction. Developer Advances were included as a part of CIAC as a reduction to rate base in the 2017 Test Year.

Treatment of CIAC within the 2019 Annual Decoupling Filing

For the 2019 Decoupling Filing, the Company treated CIAC consistently with prior filings resulting in no impact to rate base.

Schedule D1, Determination of Rate Base RAM Adjustment – Change in Rate Base

Plant in Service - There is no change in rate base for plant in service and CIAC associated with plant in service. Under NARUC, in rate base, plant in service was the gross cost of plant (net of accumulated depreciation), and CIAC was a separate reduction to rate base. Under FERC, the plant in service amounts are net of (i.e., already reduced by) CIAC, and presented net of accumulated depreciation in the calculation of rate base. There is no separate CIAC line item reducing rate base because it is already net in utility plant. Therefore, there is no net rate base impact. The difference between NARUC and FERC for plant in service is a matter of where the costs are classified in rate base, and not a matter of inclusion or exclusion of costs in rate base.

CIAC associated with CWIP - There is no change in rate base for CIAC associated with CWIP. Previously, presentation of CIAC aligned with NARUC and all CIAC, including amounts associated with projects in CWIP, were included as a reduction to rate base under account 271. The 2019 estimated balance continues the treatment of including the CIAC in CWIP to be consistent with the recorded balance at 2018 year-end because all 2019 estimated CIAC additions have been included at Schedule D2 and included as part of net cost of plant at Schedule D1. Although the treatment described above was used in the 2019 annual decoupling filing, see Company's requested treatment to exclude CIAC associated with CWIP from rate base in future filings in the discussion below.

Developer Advances - With the transition to FERC, CIAC is credited when received against the related project costs in CWIP. To the extent funds are not yet expended for a project in

CWIP, the CIAC will be classified as developer advances and deducted in the calculation of rate base at Schedule D1. The recorded balance at 2018 year-end is not adjusted for 2019 activity as it is incorporated in Schedule D2.

Schedule D2, Determination of Baseline Capital Projects Additions

Schedule D2 was revised to incorporate the baseline and major project CIAC (including Developer Advances) for 2014 to 2017 into the baseline average calculation of net plant in service, consistent with the presentation of rate base. The 2018 CIAC additions calculated at HECO-WP-D2-003 includes additions to CIAC from all sources, i.e. Plant, CWIP and Developer Advances, which were used in the 5-year baseline calculation. As a result, the estimated 2019 additions to CIAC in CWIP and Developer Advances balances at Schedule D1 for the Change in Rate Base are not required as they are already included in the net cost of plant line item.

Schedule E, Determination of Depreciation & Amortization RAM Adjustment

FERC Uniform System of Accounts Electric Plant Instructions, 2. Electric Plant To Be Recorded at Cost. D. states, "The electric plant accounts shall not include the cost or other value of electric plant contributed to the company." Therefore, the Recorded Depreciable/ Amortizable Balances at December 31, 2018 in Schedule E represents plant in service net of CIAC which is used as the basis to estimate the 2019 annual accrual amount. In calculating the 2019 RAM Depreciation and Amortization, Depreciation and Amortization in Current Revenues also includes CIAC amortization approved in the 2017 Test Year.

Schedule F & F1, Determination of Change in Deferred Income Taxes & Tax Depreciation

The methodology for computing the deferred taxes related to RAM year tax depreciation was not changed within the 2019 annual decoupling filing. Gross plant additions are used as the basis for calculating tax depreciation. However, see the CIAC impact to ADIT section below for the Company's preferred treatment considering the effects of netting CIAC against plant in service.

Schedule G-series, CIAC

Schedule G, G1 and G2 were removed from the Decoupling filings and instead incorporated into either Plant in Service, CIAC in CWIP or Developer Advances. The December 31, 2018 balances for CIAC associated with CWIP and Developer Advances were extracted from PowerPlan. Additionally, as noted above, the calculation of the 5-year baseline average of CIAC and amortization was incorporated within Schedule D2 and Schedule E, respectively.

The Company will continue to include CIAC associated with CWIP and Developer Advances as a reduction to rate base until the FERC presentation of rate base is approved in the Company's next rate case.

Company's requested CIAC treatment

The Company requests to reflect the following changes to the treatment of CIAC within the annual decoupling filings.

CIAC associated with CWIP

In Mr. Franklin's T-12 direct testimony in Hawaii Electric Light's 2019 Test Year rate case, the Company proposes to remove CIAC associated with CWIP from the calculation of rate base due to the fact that CWIP net of associated CIAC earns AFUDC, therefore the CWIP and its associated CIAC should be excluded from rate base.

Excluding CWIP net of CIAC, to better align the source of funds with its use (i.e. the CIAC funds received were applied against the costs incurred for the project) and is therefore properly excluded from the calculation of rate base. In addition, and as mentioned previously, any material CIAC received in advance of construction expenditures will continue to be deductions in the calculation of rate base as Developer Advances.

CIAC impact to ADIT

ADIT associated with CIAC in CWIP should be divided between nontaxable and taxable CIAC. Nontaxable CIAC (primarily interconnection CIAC) is treated as a reduction in basis for both book and tax purposes. On the other hand, although taxable CIAC is also a reduction in basis for book purposes, for tax purposes, the receipt of taxable CIAC creates tax basis by way of the recognition of taxable income and reverses by way of tax depreciation.

Nontaxable CIAC does not create ADIT since there is no book tax difference. Consequently, the regulatory netting of nontaxable CIAC against the plant assets should not create any issue with respect to the ADIT beginning balance for the rate base RAM calculation

Taxable CIAC generates a Deferred Tax Asset (DTA) as it is received and recorded into CWIP under the new FERC accounting. Prior NARUC accounting treatment with account 271 created DTA as CIAC was booked to 271, which is equivalent to what is now booked to CWIP. The origination and timing of the DTA under the FERC method will be equivalent to the NARUC method. However, under the old method, the DTA was immediately recognized as part of rate base, consistent with the treatment of the account 271 inclusion. However, under the FERC method, the generation of the DTA must be inventoried and tracked to match up with the amount of CIAC in CWIP and the amounts closed to plant in service. This tracking is necessary to ensure that the amount of DTA related to CWIP is excluded from rate base. Once CWIP costs are closed to plant, the related DTA will be included in rate base and will begin reversal through tax depreciation taken on the CIAC tax basis.

FERC accounting imbeds the book treatment of CIAC within CWIP and the ultimate plant and related depreciation. The separation will disappear and the Company asserts that the ADIT

effects will be the same with respect to the beginning balance of ADIT for the annual decoupling filing except to the extent CIAC is still in CWIP. This issue will be addressed along with the rate base treatment of CIAC associated with CWIP as mentioned above.

FERC accounting nets CIAC against Plant in Service for purposes of computing baseline and major plant additions. For RAM year tax depreciation and the related ADIT calculated for the change in RAM year ADIT, adopting the net plant additions as the RAM year tax additions will be a change that will result in a smaller amount of tax depreciation and ADIT "change" since the Company previously has assumed the gross additions to be the RAM year tax depreciable base. The Company asserts this is reasonable for the following reasons:

- 1) Under the old method, to the extent nontaxable CIAC was included in the RAM year numbers (through major projects or baseline projects), tax depreciable basis was overstated since there is no tax basis for assets funded by nontaxable CIAC.
- 2) With respect to taxable CIAC, the funded assets do have depreciable tax basis and it is accounted for in the RAM year additions tax depreciation. However, the receipt of taxable CIAC generates taxable income and deferred tax assets that increase rate base. The effect of this DTA from taxable CIAC was never recognized in the RAM tariff, which resulted in an overstatement of RAM year ADIT change, as it related to the projected plant additions.

For purposes of the 2019 RAM calculation, ADIT has been calculated on gross plant additions, consistent with the 2017 Test Year treatment and prior decoupling filings, however the Company is requesting treatment of CIAC in deferred tax to follow FERC accounting.

Summary

In summary, Hawaiian Electric prepared the 2019 annual decoupling filings in accordance with the historical treatment of CIAC. Historically, due to system constraints, CIAC records were not maintained with matching of the separate components (plant in service, CWIP, developer advances). As a result, the entire amount of CIAC was treated as a reduction to rate base and the Return on Investment was understated. As stated in Mr. Franklin's T-12 direct testimony in Hawaii Electric Light's 2019 Test Year rate case, the Companies propose to exclude the CIAC associated with CWIP in its calculation of rate base in the rate base RAM filings. Should the Commission approve Hawaii Electric Light's proposal, Hawaiian Electric will implement this change in the annual decoupling filing in the year following the Commission's approval.

Hawaiian Electric Company, Inc. Revenue Decoupling - Rate Base RAM 2018 Major Projects and Other Plant Additions, Net of CIAC

| | | | | | NET CALCULATION | | | | | | | | | |
|------------|------------------|---|--|---|---|-----------------------|---------------------|---------------------|---|---------------------|------|-------------------------------------|------------------------------|-----------|
| | | | | | [1] | [2] 2018 Pla | nt Additions, Net o | of CIAC | | [3] | | | | |
| | Grand parent | Project # | Project | Plant Addition Date | Net Plant Adds Thru 12/31/17 | Total Project Cost | CIAC & Adjs | Net Project Cost | Net Plant Adds Thru 12/31/18 | Net PUC Approved | | Over/(Under) Net PUC Approved | Functional Plant Category | |
| | | _ | | | (A) | (B) | (C) | (D) = (B) + (C) | (E) = (A) + (D) | (F) | | (E) - (F) | | |
| 2018 1 | 3 Major Pro - | <u>ojects</u> P0001370 | DOT Airport DSG | 2018 straggling | 3,336,179 | (3,516) | (96,602) | (100,118) | 3,236,061 | 3,400,139 | [3a] | (164,078) | Production Other | |
| 2 | - | P0002264 | Pukele 80MVA Tsf #1 | 2018 straggling | 3,846,733 | - | - | - | 3,846,733 | 3,846,733 | [3a] | - | Transmission | |
| 3 | Y00038 | (P0000783) (P0000672) (P0001579) PZ.000001 | Kakaako Makai-Iwilei 25kV DL Kakaako Makai-Kewalo 25kV DL Kakaako Makai DOT Queen-Cook | 2018 straggling 2018 straggling 2018 straggling | 7,243,799 5,023,851 1,969,969 14,237,619 | - - - | - - - | - - - | 7,243,799 5,023,851 1,969,969 14,237,619 | 14,537,623 | [3a] | (300,004) | Distribution | |
| 4 | Y00168 | PZ.000003 (P0003205) | ERP EAM Hardware | 2018 straggling | 2,604,146 | - | - | - | 2,604,146 | 2,590,000 | [3b] | 14,146 | Computers | To Sch D1 |
| 5 | | PE.005155 | Joint Pole Capital Transfer Price | 201812 | - | 24,665,897 | - | 24,665,897 | 24,665,897 | 24,665,897 | [3c] | - | Distribution | |
| Oth | <u>er</u> | PE 000104 | | | | | | | | | | | | |
| 6 | - | PE.000104 (P0003465) | Koolau-Wailupe #1 Str 30 P9 Replace | 2018 straggling | 2,684,387 | 13,203 | - | 13,203 | 2,697,590 | 2,555,619 | [3d] | 141,971 | Transmission | To Sch D1 |
| <u>Maj</u> | or Project I | Interim Recov | very (MPIR) Projects | | | | | | | | | | | |
| 7 | - | PZ001002 | Schofield Generation Station | 201806 | - | 144,743,542 | - | 144,743,542 | 144,743,542 | - | [4] | 144,743,542 | Production Other | To Sch D1 |

- [1] Transmittal No. 18-01 (Decoupling) Hawaiian Electric Company RBA Rate Adjustment, HECO-WP-D2-001, filed on May 29, 2018.
- [2] Hawaiian Electric Companies' Exemption From and Modification of General Order No. 7 Paragraph No. 2.3(g), Relating to Capital Improvements Capital Projects Completed in 2018, in Docket No. 03-0257, filed on March 27, 2019. See HECO-WP-D2-002
- [3] Per the Final Decision & Order and Dissenting Opinion of Leslie H. Kondo, Commissioner, filed on August 31, 2010, in Docket No. 2008-0274, on page 54, "for purposes of calculating the Rate Base for the RAM, the costs on Major Capital Projects shall be limited to those amounts most recently approved, e.g., when authorized in the commission's decision approving the HECO Companies' application in compliance with General Order No. 7 or in an interim or final decision and order issued by the commission in the HECO companies' rate cases."
- [3a] Net PUC Approved amount was derived from the Hawaiian Electric 2017 Test Year Rate Case, filed in Docket No. 2016-0328, in response to CA-IR-303 and CA-IR-304 which updated 2016 Plant Additions and CIAC for actuals through December 31, 2016 and revised forecast for 2017. See calculation below:

| | Do | OT Airport DSG | Pu | kele 80MVA Tsf#1 | | Kakaako Makai | | | |
|--|-----------|----------------|-----------|------------------|------|---------------|------------|-------------|------------|
| | Gross | CIAC | Net | Gross | CIAC | Net | Gross | CIAC | Net |
| Gross/Net Plant Adds Thru 12/31/16) - column [1] | 5,235,178 | (1,993,000) | 3,242,178 | 3,839,121 | - | 3,839,121 | 18,338,808 | (2,825,023) | 15,513,785 |
| 2017 Plant Addition (CA-IR-303, Att 2) | 157,961 | - | 157,961 | 7,612 | - | 7,612 | (76,162) | - | (76,162) |
| 2017 CIAC Estimate (CA-IR-304, Att 2) | - | - | - | - | - | - | - | (900,000) | (900,000) |
| Derived PUC Approved | 5,393,139 | (1,993,000) | 3,400,139 | 3,846,733 | - | 3,846,733 | 18,262,646 | (3,725,023) | 14,537,623 |

- [3b] Per Decision and Order No. 33861, page 4, Docket No. 2014-0170, For Approval of an Enterprise Resource Planning and Enterprise Asset Management System Implementation Project and Related Accounting Treatment, filed August 11, 2016.
- [3c] Per Decision and Order No. 35768, Docket No. 2018-0075, For Approval of the Transfer of Equity Ownership Interest in Certain Joint Poles, to Commit Funds in Excess of \$2,500,000, Accounting and Ratemaking Treatment, Amendments to Joint Pole Agreements Between the Applicants, Asset Transfer Agreement, and Pole Licensing Agreement, file October 16, 2018. The Commission approved the acquisition of Hawaiian Telcom's joint pole equity ownership shares, valued at \$47,970,092, of which \$24,665,897 was related to Hawaiian Electric.
- [3d] In the 2017 Fourth Quarter Capital Projects Status Report filed on February 28, 2018, Hawaiian Electric identified that the project costs had unexpectedly exceeded \$2,500,000 and provided an explanation for the higher costs. Project cost is limited for rate base RAM recovery to the amount identified in Hawaiian Electric's response to CA-IR-303, Attachment 2, page 3 of 7), filed in Docket No. 2016-0328, Hawaiian Electric 2017 Test Year Rate Case.
- [4] Project to be recovered through the MPIR mechanism and therefore the entire project will be removed from the RAM Revenue Adjustment Calculation. See Notice Transmittal to Update Target Revenue for Schofield Generating Station through the Major Project Interim Recovery Adjustment Recovery Mechanism, filed February 7, 2019, Transmittal No. 19-01 effective January 1, 2019. MPIR Recovery calculated at the Schedule L series.

2018 General Order No. 7 (GO7) Report Summary Plant Additions

| | 2018 |
|---------------------------------------|--------------------|
| Projects | Plant Addition (1) |
| Less than \$2.5M | 189,284,505 |
| Greater than \$2.5M | 169,419,126 |
| Total Plant Additions - Gross | 358,703,631 |
| | To Sch D2, line 1 |
| Less: Major Project additions in 2018 | |
| DOT Airport DSG | 3,516 |
| Koolau-Wailupe #1 Str 30 P9 Replace | (13,203) |
| Schofield Generation Station | (144,743,542) |
| Joint Pole Transfer Price | (24,665,897) |
| | (169,419,126) |
| Baseline Plant Additions - Gross | 189,284,505 |

⁽¹⁾ Source: Hawaiian Electric Companies' Exemption From and Modification General Order No. 7 Paragraph No. 2.3(g), Relating to Capital Improvements Capital Projects Completed in 2018, in Docket No. 03-0257 filed on March 27, 2019.

Hawaiian Electric Company, Inc. CIAC Reconciliation

As of December 31, 2018

| - | | |
|-----|------|--|
| - 1 | 1110 | |
| | | |

| No. | Description | Reference | CIAC, Including Developer Advan | | | |
|-----|--------------------------------------|---------------------------------|---------------------------------|--------------|--|--|
| | (a) | (b) | (c) | | | |
| 1 | 12/31/17 Balance | 5/29/18 Decoupling, Sch G1 | (366,100,380) | | | |
| 2 | Exclude: Non-Utility CIAC | | 618,464 | | | |
| 3 | Add: Developer Advances | _ | (33,883,949) | | | |
| 4 | 12/31/17 Balance - Utility CIAC | \bigvee | (399,365,865) | | | |
| 5 | 9/30/18 Balance | GL #271 | (378,238,665) | | | |
| 6 | Exclude: Non-Utility CIAC | Line 2 | 618,464 | | | |
| 7 | Add: Developer Advances | GL #2520300 | (34,163,852) | | | |
| 8 | 9/30/18 Balance - Utility CIAC | Line 4 + Line 5 | (411,784,053) | | | |
| 9 | CIAC Change Thru 9/30/18 - Utility | Line 6 - Line 3 | | (12,418,188) | | |
| 10 | Add Back: 2018 CIAC Amortization | 5/29/18 Decoupling, Sch G3 | | | | |
| | thru 9/30/18 | (8,818,605 x 9/12) | 8,818,605 | (6,613,954) | | |
| 11 | CIAC Additions Thru 9/30/18 | | | (19,032,141) | | |
| 12 | Oct to Dec 2018 Activity | | | | | |
| 13 | CIAC-Cash Tax | GL #60005200 | (6,435,124) | | | |
| 14 | CIAC-Cash Non-Tax | GL #60005201 | (831,921) | | | |
| 15 | CIAC-Settlement | GL #60050221 | 174,515 | | | |
| 16 | CIAC-In-Kind | GL #60005206 | (3,443,756) | | | |
| 17 | | • | | (10,536,286) | | |
| 18 | 2018 CIAC Additions, included within | in Plant in Service, CWIP, Deve | eloper Advances | (29,568,427) | | |
| | | | | To Sch D2 | | |

Purpose:

Starting October 1, 2018, the Company adopted FERC guidelines resulting in CIAC being netted with Plant via Plant Additions or CWIP. This workpaper calculates the 2018 CIAC additions by summing the CIAC activity from January 1 to September 30, 2018 (per Ellipse) with the CIAC activity from October 1 to December 31, 2018 (per SAP and Powerplan WBS) for inclusion in the Baseline Plant Additions calculation at Schedule D2. Beginning with calendar year 2019, Baseline Plant Additions will be shown net of CIAC.

Note 1:

See HECO-WP-D1-001 for documentation on the treatment of CIAC in the 2019 Decoupling Filing.

EXCERPT: Transmittal 18-01, Schedule G1, filed 5/29/18.

SCHEDULE G1 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK BASELINE CAPITAL PROJECTS CIAC ADDITIONS

Source of CIAC balance and amort.: December Monthly Reports filed (non-confidential basis) with the PUC dated:

| Description 2013 2014 2015 2016 2017 | | | | | 2/21/2014 | 2/26/2015 | 2/23/2016 | 2/24/2017 | 3/1/2018 |
|--|-----------|---|--------------------|-----------|---------------|---------------|---------------|-------------|---------------------|
| (b) (c) (d) (e) (f) (f) (f) (g) (f) (g) (g) (g) (g) (g) (g) (g) (g) (g) (g | ine No | Desc | crintion | | 2013 | 2014 | 2015 | 2016 | 2017 |
| 2 Less Non-Liniy CLAC | 10. | | | | | | | | |
| 3 Adjusted CAC Selames, January 1 Less CAC Administration (See Right pg. 2) 5.55.212 5.55.212 5.55.212 5.55.212 5.55.212 5.55.212 5.55.212 5.55.212 5.55.212 5.55.212 5.55.212 5.55.212 5.55.222 5.55.212 | | |) | NOTE (3) | (238,510,104) | (258,084,169) | (283,739,660) | | |
| Less CIAC Amortization (Dee Ret. pg. 2) 25,802,912 6,147,559 5,771,148 7,597,377 8,309,481 | | | | NOTE (3) | (238.510.104) | (258.084.169) | (283,739,660) | | |
| Eleas: Non-Listing ClaCo Series Cells Agent Cells | | | | | | | | | |
| Tests: Adjusted CIAC Selatinos, December 31 Total Adjusted CIAC Additions Total Adjusted CIAC Additions (Sum Line 3, 4 8.7) Total Adjusted CIAC Additions (Sum Line 3, 4 8.7) Total Adjusted CIAC Additions NOTE (4) Total Adjusted CIAC Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (4) Total Adjusted CIAC Addition Addition Addition Adjusted CIAC A Developer Advance Addition Adjusted CIAC Addition Adjusted CIAC A Developer Advance Addition Adjusted CIAC Adjusted CIAC A Developer Advance Additions Total Research CIAC Advance Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (4) Total Adjusted CIAC A Developer Advance Additions NOTE (5) Total Adjusted CIAC A Developer Advance Additions NOTE (5) Total Adjusted CIAC Advance Addition Addition CIAC Advance Addition CIAC Addition CIAC Advance Addition CIAC Adjusted CIAC Advance Addition CIAC Advance Addition CI | | | . 10) | | 258,084,169 | 283,739,660 | | | |
| 8 Total Adjusted CIAC Additions (Sum Line 3, 4 & 7) 25,225,977 31,803,080 42,140,722 36,314,281 25,985,319 3 Add Developer Advances NOTE (4) 25,225,977 31,803,080 42,140,722 36,314,281 55,984,319 3 Add Developer Advances Additions Less Mainer Products: Less Mainer Products: 2008 In-services 2008 In-services 2010 In-services 2010 In-services 2011 In-services 2011 In-services 2011 In-services 2011 In-services 2011 In-services 2012 In-services 2012 In-services 2013 ECPT Ph. 2 (Subsc Switch Skillorius) 2014 In-services 2015 In-services 2015 In-services 2016 In-services 2017 Ph. 2 (Subsc Switch Skillorius) 2018 In-services 2018 In-services 2018 In-services 2019 Will Bloater Cortrols Upgrade 2019 Will Bloater Cortrols Upgrade 2019 Visional (87,994) (45,725) (15,232) (718) Schedule D2 2011 In-services 2011 In-services 2012 In-services 2013 In-services 2014 In-services 20 | | | 14 | NOTE (3) | - | | | | |
| 9 Add Developer Advances: 19 Total Adjusted CIAC & Developer Advance Additions 10 Less Major Projects: 20 Less Major Projects: 21 Dkt No. Item No. 22 2008 Inservice: 23 CIP Generating Unit 24 CIP Generating Unit 25 CIP Generating Unit 26 CIP Generating Unit 27 CIP Comments Unit 28 CIP Comments Unit 29 Less Major Projects: 29 CIP Comments Unit 20 Less Major Projects: 20 CIP Generating Unit 20 Less Major Projects: 20 CIP Generating Unit 20 CIP Comments Unit 20 CIP CIP Comments Unit 20 CIP | 1 | Less: Adjusted CIAC Balance, December 3 | 31 | | 258,084,169 | 283,739,660 | 319,109,234 | 347,826,078 | |
| Total Adjusted CIA & Developer Advance Additions 25,226,977 31,803,050 42,140,722 36,314,281 59,849,268 Schedule D | 8 | Total Adjusted CIAC Additions | (Sum Line 3, 4 & 7 | 7) | 25,226,977 | 31,803,050 | 42,140,722 | 36,314,281 | 25,965,319 |
| Total Adjusted CIAC & Developer Advance Additions 25,226,977 31,803,050 42,140,722 36,314,281 59,849,268 Schedule Developer Advance Additions 25,226,977 31,803,050 42,140,722 36,314,281 59,849,268 Schedule Developer Advance Additions 25,226,977 31,803,050 42,140,722 36,314,281 59,849,268 Schedule Developer Advance Additions 25,226,977 31,803,050 42,140,722 36,314,281 59,849,268 Schedule Developer Advance Additions 20,000 20 | 9 | Add Developer Advances: | | NOTE (4) | - | - | - | - | 33,883,949 |
| 22 2008 In-service: 23 CIP Generating Unit 05-0145 Y49000 24 25 2010 In-service: 25 2010 In-service: 26 2011 In-Service: 27 2011 In-Service: 28 2011 In-Service: 29 2011 In-Service: 29 2011 In-Service: 2011 In-Service: 2012 In-Service: 2014 Boiler Controls Uggrafe 2007-0365 P7550000 2014 Boiler Controls Uggrafe 2007-0365 P7550000 2015 Boiler Controls Uggrafe 2007-0365 P7550000 2016 Boiler Controls Uggrafe 2007-0365 P7550000 2016 Boiler Controls Uggrafe 2007-0365 P7550000 2017 Boiler Controls Uggrafe 2007-0365 P7550000 2018 Boiler Controls Uggrafe 2009-0186 P7550000 2018 Will Main Transformer Replace 2010-0186 P7550000 2018 Will Main Transformer Replace 2010-0186 P0001393 2018 KI Condenser Tube Replace 2010-0126 P0001393 2018 KI Condenser Tube Replace 2010-0126 P0000881 2018 BPT Tank 132 Improvements 2010-0162 P0001395 2018 Mobile Radio Replacement 2010-0162 P0001395 2018 Mobile Radio Replacement 2010-0162 P0001395 2018 Kalado Makical-Media Pelacement 2010-0162 P0001395 2018 Kalado Makical-Media Pelacement 2010-0162 P0001395 2018 Kalado Makical-Media Pelacement 2010-0163 P0001395 2018 Kalado Makical-Media Pelacement 2008-0070 P00119 2018 Kalado Makical-Media Political P000038 2018 Kalado Makical-Media Political P0001492 2016 In-Service: 2018 Political Replacement 2010-0168 P000038 2017 In-Service: 2018 Political Replacement 2010-0168 P000038 2017 In-Service: 2018 Political Replacement 2010-0168 P0001492 2016 Political Replacement 2010-0168 P0001492 2017 In-Service: 2018 Political Replacement 2010-0168 P0001492 2018 Political Replacement 2010-0168 P0001492 2018 Political Replacement 2010-0168 P0001492 2018 Political Replacement 2010-0168 P0001494 2018 Political Repla | 19 | Total Adjusted CIAC & Developer Advan | nce Additions | | 25,226,977 | 31,803,050 | 42,140,722 | 36,314,281 | 59,849,268 Schedule |
| 22 2008 In-service: 23 CIP Generaling Unit | 20 | Less Major Projects: | Dkt No. | Item No. | | | | | |
| 201 Cenerating Unit O5-0145 Y49900 | | 2008 In-service: | | | | | | | |
| 25 2010 In-service: 26 K3 Biblic DeFining 2009-0155 P0001577 277 278 28 2011 In-Service: 29 W8 Boiler Controls Upgrade 2007-0365 P7650000 2007-0765 P7590000 (87,994) (43,725) (15,232) (718) Schedule D2 2017 Controls Upgrade 2009-0195 P7590000 2009-0195 P7590000 2018 W8 Main Transformer Replace 2009-0195 P7590000 2018 W8 Main Transformer Replace 2010-0126 P00001399 2018 Controls Upgrade 2009-0195 P7590000 2018 Controls Upgrade 2009-0195 P7590000 2018 W8 Main Transformer Replace 2010-0126 P00001399 2012 In-Service: 2012 In-Service: 2013 In-Service: 2013 In-Service: 2013 In-Service: 2014 In-Service: 2014 In-Service: 2014 In-Service: 2015 In-Service: 2015 In-Service: 2015 In-Service: 2016 In-Service: 2017 In-Service: 2018 In-Service: 2016 In-Service: 2017 In-Service: 2017 In-Service: 2018 In-Service: 2018 In-Service: 2018 In-Service: 2017 In-Service: 2018 In-Service: 2016 In-Service: 2017 In-Service: 2018 In-Servic | 23 | | 05-0145 | Y49000 | | | | | |
| 2011 In-Service: 2014 In-Ser | 25 | 2010 In-service: | | | | | | | |
| 20 | 26 27 | | 2009-0155 | P0001577 | | | | | |
| SCIP PN. 2 (Subs/Switch Stations) 2010-0062 Y48500 (87,994) (43,725) (15,232) (718) Schedule D2 | 28 | | | | | | | | |
| WY Controls Upgrade | | | | | | | | | |
| 2012 In-Service: 2012 In-Service: 2012 In-Service: 2014 - 1026 | | | | | (87,994) | (43,725) | (15,232) | (718) | Schedule D2 |
| 2012 In-Service: \$\$ K1 Condenser Ube Replace \$\$ \$14 Condenser Ube Replace \$\$ \$2010-0126 | | | 2009-0195 | | | | | | |
| XI Condenser Tube Replace | 33 | · | | P0001399 | | | | | |
| BPT Tank 132 Improvements 2010-0286 P0000899 Mobile Radio Replacement 2010-0162 P0001595 Rapolei Substation 2011-0026 P0001595 Rapolei Substation 2011-0026 P0001595 Rapolei Substation 2011-0156 P0001494 Pukele 80MVA Tst #3 2011-0156 P0001494 North South Road 46kV Line 2008-0070 Y00119 Raioi Substation - Land - NOTE (2) 2008-0070 Y00119 Raioi Substation - Land - NOTE (2) 2008-0070 Y00119 Raioi Substation - 2008-0070 Y00119 Raioi Substation 2008-0070 Y00119 Raioi Sub 46kV & 12kV Distr 2008-0070 Y00119 Raioi Sub 12kV Work 2008-0070 Y00119 Raioi R | | | 0040 0400 | D0000004 | | | | | |
| Mobile Radio Rapiacement 2010-0162 P0001595 | | | | | | | | | |
| Rapole Substation 2011-0026 Y00127 | | | | | | | | | |
| 10 | | | | | | | | | |
| Pukele 80MVA Tst #3 | 39 | | | | | | | | |
| Kakalo Makai-Iwilei 25kV DL 2009-0042 Y00038 Kaloi Substation - Land - NOTE (2) 2008-0070 Y00119 Whorth South Road 46kV Line 2008-0070 Y00119 Kaloi Substation - Land - NOTE (2) 2008-0070 Y00119 Kaloi Substation - Land - NOTE (2) 2008-0070 Y00119 Kaloi Substation - Land - NOTE (2) 2008-0070 Y00119 Kaloi Substation - Land - NOTE (2) 2008-0070 Y00119 Kaloi Substation - Land - NOTE (2) 2008-0070 Y00119 Kaloi Substation - Land - NOTE (2) 2008-0070 Y00119 Kaloi Sub 12kV Work 2008-0070 Y00119 Kaloi Sub 12kV Work 2008-0070 Y00119 Kakai Sub 12kV Work 2008-0070 Y00119 Kakaako Makai-Kewalo 25kV DL 2009-0042 Y00038 Kakaako Makai-DOT Queen-Cook 2009-0042 Y00038 Kakaako Makai DOT Queen-Cook 2009-0042 Y00038 Schedule D2 BPT Tank 133 Improvements 2010-0318 P0000900 Pukele 80MVA Tsf #1 2011-0156 P0001492 DOT Airport DSG 2008-0329 P0001370 50 Colf In-Service: ERP EAM Hardware 2014-0170 Y00168 ERP EAM Hardware 2014-0170 Y00168 Last Five-Year Average 2014-0170 38,472,321 | 40 | | | | | | | | |
| Saloi Substation - Land - NOTE (2) 2008-0070 Y00119 | 41 | | | | | | | | |
| North South Road 46kV Line 2008-0070 Y00119 | 42 | | | | | | | | |
| 45 46 2014 In-Service: 47 Kaloi Substation 2008-0070 Y00119 48 Kaloi Sub 46kV & 12kV Distr 2008-0070 Y00119 49 Kaloi Telecomm 2008-0070 Y00119 50 Kaloi Sub 12kV Work 2008-0070 Y00119 51 Kakaako Makai-Kewalo 25kV DL 2009-0042 Y00038 52 Kakaako Makai DOT Queen-Cook 2009-0042 Y00038 53 BPT Tank 133 Improvements 2010-0318 P0000900 54 Pukele 80MVA Tsf #2 2011-0156 P0001492 55 DOT Airport DSG 2008-0329 P0001370 56 DOT Airport DSG 2008-0329 P0001370 57 Pukele 80MVA Tsf #1 2011-0156 P000264 58 Pukele 80MVA Tsf #1 2011-0156 P000264 59 Pukele 80MVA Tsf #1 2011-0156 P000264 50 Total Net CIAC & Developer Advance Additions 60 2017 In-Service: 61 ERP EAM Hardware 2014-0170 Y00168 62 Total Net CIAC & Developer Advance Additions 64 Last Five-Year Average 38,472,321 | | | | | | | | | |
| Kaloi Substation 2008-0070 Y00119 | 44 45 | North South Road 46kV Line | 2008-0070 | Y00119 | | | | | |
| 48 Kaloi Sub 46kV & 12kV Distr 2008-0070 Y00119 49 Kaloi Telecomm 2008-0070 Y00119 51 Kakaako Makai-Kewalo 25kV DL 2009-0042 Y00038 52 Kakaako Makai-DOT Queen-Cook 2009-0042 Y00038 53 BPT Tank 133 Improvements 2010-0318 P0000900 54 Pukele 80MVA Tsf #2 2011-0156 P0001492 55 DOT Airport DSG 2008-0329 P0001370 56 Pukele 80MVA Tsf #1 2011-0156 P0002264 57 2016 In-Service: Pukele 80MVA Tsf #1 2011-0156 P0002264 58 Pukele 80MVA Tsf #1 2011-0156 P0002264 60 2017 In-Service: ERP EAM Hardware 2014-0170 Y00168 61 ERP EAM Hardware 2014-0170 Y00168 62 Total Net CIAC & Developer Advance Additions 25,138,983 31,759,325 42,125,490 33,488,540 59,849,268 65 Last Five-Year Average | 46 | | | | | | | | |
| Majoi Telecomm 2008-0070 Y00119 Y00119 Y00119 Y00119 Y00119 Y00119 Y00119 Y00038 Y00119 Y00038 Y00119 Y00038 | | | | | | | | | |
| 50 Kaloi Sub 12kV Work 2008-0070 Y00119 51 Kakaako Makai-Kewalo 25kV DL 2009-0042 Y00038 52 Kakaako Makai-DOT Queen-Cook 2009-0042 Y00038 53 BPT Tank 133 Improvements 2010-0318 P0000900 54 Pukele 80MVA Tst #2 2011-0156 P0001492 55 DOT Airport DSG 2008-0329 P0001370 56 57 2016 In-Service: 58 Pukele 80MVA Tst #1 2011-0156 P000264 59 60 2017 In-Service: 61 ERP EAM Hardware 2014-0170 Y00168 62 63 Total Net CIAC & Developer Advance Additions 64 65 Last Five-Year Average 2016 In-Service: 25,138,983 31,759,325 42,125,490 33,488,540 59,849,268 | | | | | | | | | |
| 51 Kakaako Makai-Kewalo 25kV DL 2009-0042 Y00038 (2,825,023) Schedule D2 52 Kakaako Makai DOT Queen-Cook 2009-0042 Y00038 (2,825,023) Schedule D2 58 BPT Tank 133 Improvements 2010-0318 P0000190 F00001492 F00001492 56 DOT Airport DSG 2008-0329 P0001370 F00001492 F | | | | | | | | | |
| 52 Kakaako Makai DOT Queen-Cook 2009-0042 Y00038 (2,825,023) \$\$ Schedule D2 53 BPT Tank 133 Improvements 2010-0318 P0000900 \$\$ P0001492 54 Pukele 80MVA Tst #2 2011-0156 P0001370 56 Pukele 80MVA Tst #1 2011-0156 P0002264 59 Pukele 80MVA Tst #1 2011-0156 P0002264 60 2017 In-Service: ERP EAM Hardware 2014-0170 Y00168 62 Total Net CIAC & Developer Advance Additions 25,138,983 31,759,325 42,125,490 33,488,540 59,849,268 64 Last Five-Year Average 38,472,321 | | | | | | | | | |
| 53 BPT Tank 133 Improvements 2010-0318 P0000900 Pukele 80MVA Tsf #2 2011-0156 P0001492 55 DOT Airport DSG 2008-0329 P0001370 56 57 Pukele 80MVA Tsf #1 2011-0156 P000264 59 60 2017 In-Service: ERP EAM Hardware 2014-0170 Y00168 62 63 Total Net CIAC & Developer Advance Additions 64 65 Last Five-Year Average 2016-0318 P0000900 57 Pukele 80MVA Tsf #1 2011-0156 P0002264 58 Pukele 80MVA Tsf #1 2011-0156 P0002264 59 60 2017 In-Service: 61 ERP EAM Hardware 2014-0170 Y00168 62 63 Total Net CIAC & Developer Advance Additions 31,759,325 42,125,490 33,488,540 59,849,268 | | | | | | | | (2 825 022) | Schodula D2 |
| 54 Pukele 80MVA Tsf #2 2011-0156 P0001492 DOT Airport DSG 2008-0329 P0001370 55 Pukele 80MVA Tsf #1 2011-0156 P0002264 58 Pukele 80MVA Tsf #1 2011-0156 P0002264 59 Pukele 80MVA Tsf #1 2011-0156 P0002264 50 2017 In-Service: 61 ERP EAM Hardware 2014-0170 Y00168 62 PROMINION OF PROMINION OF POWER | | | | | | | | (2,020,023) | Schedule D2 |
| 55 DOT Airport DSG 2008-0329 P0001370 56 57 2016 In-Service: 58 Pukele 80MVA Tsf #1 2011-0156 P0002264 59 60 2017 In-Service: 61 ERP EAM Hardware 2014-0170 Y00168 62 63 Total Net CIAC & Developer Advance Additions 64 65 Last Five-Year Average 2014-0170 Service: 61 Service: 25,138,983 31,759,325 42,125,490 33,488,540 59,849,268 | | | | | | | | | |
| 56 7 2016 In-Service: 57 Pukele 80MVA Tsf #1 2011-0156 P0002264 59 60 2017 In-Service: 61 ERP EAM Hardware 2014-0170 Y00168 62 63 Total Net CIAC & Developer Advance Additions 64 65 Last Five-Year Average 2014-0170 Service: 65 Service: 67 2016 In-Service: 68 2017 In-Service: 69 2017 In-Service: 69 2017 In-Service: 60 2017 In-Service: 61 ERP EAM Hardware 62 25,138,983 31,759,325 42,125,490 33,488,540 59,849,268 69 | | | | | | | | | |
| 7 2016 In-Service: Pukele 80MVA Tsf #1 2011-0156 P0002264 Pu | 56 | por. 500 | 2000 0023 | . 5551070 | | | | | |
| 58 Pukele 80MVA Tsf #1 | 57 | 2016 In-Service: | | | | | | | |
| 61 ERP EAM Hardware 2014-0170 Y00168 62 63 Total Net CIAC & Developer Advance Additions 64 65 Last Five-Year Average 66 Last Five-Year Average 67 2014-0170 Y00168 68 25,138,983 31,759,325 42,125,490 33,488,540 59,849,268 68 38,472,321 | 58 59 | | 2011-0156 | P0002264 | | | | | |
| 62 63 Total Net CIAC & Developer Advance Additions 25,138,983 31,759,325 42,125,490 33,488,540 59,849,268 64 65 Last Five-Year Average 38,472,321 | 60 | | | | | | | | |
| 64 | | ERP EAM Hardware | 2014-0170 | Y00168 | | | | | |
| 65 Last Five-Year Average | 63 64 | Total Net CIAC & Developer Advance Ad | ditions | | 25,138,983 | 31,759,325 | 42,125,490 | 33,488,540 | 59,849,268 |
| | 65 | Last Five-Year Average | | | | | | | |

NOTE (1): The CIAC amounts of the major projects are reflected in the year that they were received. In previous Decoupling filings these amounts were from the respective year's GO7 plant addition annual reports which reports the CIAC in the year the project closed to plant. In the past, the total CIAC additions, which reflect actual contributions received in the year, may not have included the total major project CIAC from the GO7 report to the extent that the CIAC was received in advance, or in multiple payments over a span of more than one year. Source: UI Planner files: Actuals Scenario.

NOTE (2): CIAC received for this project was not reflected in the 2012 and 2013 Decoupling filings as previous filings reported the CIAC amounts of the major projects from the respective year's GO7 plant addition annual report which reports the CIAC in the year the project closed to plant. See GENERAL NOTE.

IOTE (3): Adjustment to remove non-utility project related CIAC from the general ledger balance. Chapin UG Duct Line is a non-utility asset. It is a contributed asset that was given to the Company. It is not being used and there are currently no plans to use it. See Schedule G3, Line 96. Adjusted CIAC Additions for 2016 was corrected to exclude the non-utility plant balance from the beginning balance.

NOTE (4): In 2017, the Company reclassed the portion of CIAC for projects where the cash balance received was in excess of total incurred costs since the project agreements include provisions which allow for instances that unapplied funds received in advance would be subject to refunds. The true-up provision allows for any excess funds not expended to be refunded back to the developer. Furthermore, between the timing of the cash receipt to the project completion date, the project could be terminated, which would then result in refund of the unapplied funds. See below for a reconciliation of the Customer Advance balance at December 31, 2017:

 Customer Advance (#25200000)
 4,239,163

 Developer Advances (#25203000)
 33,883,949

 Customer Advances
 38,123,112

 SOURCE: HECO Monthly Financial Report - December 2017, page 10, filed March 1, 2018.

The unapplied developer funds received in advance (Developer Advances) are excluded from the CIAC balance subject to amortization until they are reclassified to CIAC as costs are incurred. Developer Advances are included in the calculation of the Last Five-Year Average because they represent funds received in advance and are expected to be reclassified to CIAC as costs are incurred in the current year. Developer advances were also included in the Unamortized CIAC balance (See "Average Rate Base" from HECO Decision and Order No 35280, filed 2/9/2018 of Docket No. 2016-0328).

Hawaiian Electric Company 2019 Plant Additions Net of CIAC - Major Projects Support

| Grand- parent | Project | Functional Category | Plant Addition Date | Net PUC Approved [1] A | Net Plant Adds thru 12/31/18 [2] | 2019 Net Plant Additions [3] | 2019 CIAC Additions [3] | 2019 Net Project Costs F = D + E | Estimated Net Plant Adds thru 12/31/19 $G = C + F$ | Over/ (Under) Net PUC Approved $H = A - G$ | 2019 Net Plant Addition Qualifying for RB RAM (Note A) |
|------------------|--|-----------------------------|---------------------------|------------------------------|--|------------------------------|-------------------------------|------------------------------------|--|--|--|
| | PE.000209 (P0003975): AES CEIP #2 138kV OH Trans Line Relocation | Transmission >=69kV | 2019/02 | 3,007,232 [1a] | - | 4,091,987 | | 4,091,987 | 4,091,987 | 1,084,755 | 3,007,232 |
| | PG.000005/PZ.001001 (P0003966): West Loch Utility Scale PV | Production- Photovoltaic | 2019/05 | 62,400,000 [1b] | - | 52,128,000 | | 52,128,000 | 52,128,000 | (10,272,000) | 52,128,000 |
| | PZ.000015 (P0000974, P0003977): Ala Wai Canal 46kV Relocation | Transmission <69kV | 2019/06 | 13,910,207 [1c] | - | 20,300,268 | | 20,300,268 | 20,300,268 | 6,390,061 | 13,910,207 |
| Y00038 | P0000672: Kakaako Makai- Kewalo 25kV DL P0000783: Kakaako Makai- | | 2014/04 | 7,243,799 | 7,243,799 | | | | | | |
| | Iwilei 25kV DL P0001579: Kakaako Makai | | 2013/07 | 5,023,851 | 5,023,851 | | | | | | |
| | DOT Queen-Cook | Distribution | 2014/04 _ | 1,969,969 14,237,619 [1d] | 1,969,969 14,237,619 | - | (22,683) | (22,683) | 14,214,936 | (22,683) | (22,683) |

69,022,756 To Sch D3

e amount qualifying for 2019

- NOTE A: Amount qualifying for 2019 rate base RAM recovery is limited to the lower of the net plant addition (column D) or the net PUC approved amount (column A). In the case of straggling costs, the amount qualifying for 2019 rate base RAM recovery is limited to the lower of the 2019 net plant addition (column D) or the remaining unused balance of the net PUC approved amount.
 - [1] Per the Final Decision & Order and Dissenting Opinion of Leslie H. Kondo, Commissioner, filed on August 31, 2010, in Docket No. 2008-0274, on page 54, "for purposes of calculating the Rate Base for the RAM, the costs on Major Capital Projects shall be limited to those amounts most recently approved, e.g., when authorized in the commission's decision approving the HECO Companies' application in compliance with General Order No. 7 or in an interim or final decision and order issued by the commission in the HECO companies' rate cases."
 - [1a] Decision and Order No. 35312 in Docket No. 2016-0439, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for the P0003975 AES-CEIP 2 138 kV Overhead Transmission Line Relocation Project, filed March 2, 2018.
 - [1b] Decision and Order No. 34676 in Docket No. 2016-0342, For Approval of Waiver from the Framework for Competitive Bidding and to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for the Purchase and Installation of Item P0003966 West Loch PV Project, filed June 30, 2017.
 - [1c] Decision and Order No. 34788 in Docket No. 2016-0416, For Approval to Commit Funds in Excess of \$2,500,000 for Item P0000974, Ala Wai Canal 46 kV Underground Line Construction and Item P0003977, Ala Wai Canal Easement Acquisition and Related Requests, filed September 1, 2017.
 - [1d] See HECO-WP-D2-001, Note [3a].
 - [2] Source: HECO-WP-D2-001.
 - [3] Source: UIPlanner Budget files. Forecast as of February 15, 2019.

| DEFERREI | D INCOME TAXES | | | | |
|----------------|--|-------------------------|-----------------------------|-----------------------|---|
| EDERAL | | DR / (CR) | DR / (CR) | DR / (CR) | |
| | | HECO | HECO | HECO | |
| | | FEDERAL | STATE | TOTAL | |
| OR / (CR) | | LIABILITY | LIABILITY | LIABILITY | |
| LIAB | DESCRIPTION | 12/31/2018 | 12/31/2018 | 12/31/2018 | |
| | | | | | |
| 28311 | Unearned Lease | - (0.17.001.00) | - (0.4.500.0.4) | - (000.050.44) | |
| 28312 | Accrued Vacation | (247,391.60) | (81,566.84) | (328,958.44) | |
| 28313 | Uncollectible Acct | 365,876.81 | 111,502.91 | 477,379.72 | |
| 28314 | Directors Def Comp | 8,117.74 | 1,571.96 | 9,689.70 | |
| 28317 | Discounted Work Comp | 313,824.26 | 95,894.48 | 409,718.74 | |
| 28319 28321 | Cap to Construct (Cost of Removal) Pension | 71,429,406.70 | 21,769,003.09 | 93,198,409.79 | |
| 28323 | Excess Benefit Plan | (15.02) 566,372.66 | 0.31 168,081.11 | (14.71) 734,453.77 | |
| 28326 | Def Exec Comp (Def EICP<IP) | 35,031.69 | 10,677.39 | 45,709.08 | |
| 28327 | Software (no APPRISE & e business | 88,753.66 | 52,874.74 | 141,628.40 | |
| 28328 | G/L ACRS Retirements | (12,405,681.27) | (4,236,659.06) | (16,642,340.33) | |
| 28330 | EICP | (358,728.30) | (125,497.81) | (484,226.11) | |
| 28331 | CIAC | 20,071,371.03 | 10,206,246.04 | 30,277,617.07 | |
| 28332 | Customer Advances | 1,077,639.88 | 327,760.03 | 1,405,399.91 | |
| 28333 | Capitalized Interest | 9.984.224.16 | 3,836,301.98 | 13,820,526.14 | |
| 28335 | Connection Fees | (9,611.91) | (8,444.14) | (18,056.05) | |
| 28336 | Nondeductible Interest | 19,016.26 | 5,795.04 | 24,811.30 | |
| 28337 | Supplemt Benefits - SERP | 272,295.28 | 72,700.74 | 344,996.02 | |
| 28340 | LTIP | 822,110.82 | 250,548.14 | 1,072,658.96 | |
| 28341 | Waipahu Baseyard Int | 67,116.93 | 20,452.91 | 87,569.84 | |
| 28347 | Waiau Water Well Pmts | 79,910.90 | 24,369.66 | 104,280.56 | |
| 28350 | Outage Loss Adj Exp | - | (24,509.00) | (24,509.00) | |
| 28401 | Genl/Auto (& Accidents) | 248,241.27 | 75,654.04 | 323,895.31 | |
| 28403 | CWIP Debt Transition | (160,324.76) | (48,863.15) | (209,187.91) | |
| 28404 | CWIP Equity Trans | (404,087.01) | (123,151.30) | (527,238.31) | |
| 28405 | Iolani Ct Plaza Sale | 17,071.33 | (6,033.56) | 11,037.77 | |
| 28406 | Kaonohi Sale | (22,651.01) | (6,942.61) | (29,593.62) | |
| 28408 | Plant Transition | (3,997,395.48) | (1,218,288.67) | (5,215,684.15) | |
| 28409 | CWIP Equity Net | (17,671,614.37) | (5,385,620.77) | (23,057,235.14) | |
| 28410 | CWIP Equity Grossup | (10,862,867.25) | (3,310,577.99) | (14,173,445.23) | |
| 28411 | CWIP Debt | (9,399,038.35) | (2,868,001.13) | (12,267,039.48) | |
| 28412 | Genl/Auto Liability - Legal | 0.21 | (2,428.89) | (2,428.68) | |
| 28413 | Post Retirement Ben | (875,563.84) | (246,873.67) | (1,122,437.51) | |
| 28414 | Reg Liab Federal ITC | 172,357.16 | 53,366.18 | 225,723.34 | |
| 28418 | IRP Costs | (25,223.69) | (8,107.96) | (33,331.65) | |
| 28419 28422 | Reg Liab Excess 283 Miscellaneous | 115,881.47 17,106.97 | 35,956.40 | 151,837.87 | |
| 28427 | Prepaid Expenses | (915,615.83) | (16,969.99) (279,043.26) | 136.98 (1,194,659.09) | |
| 28432 | Coal Gasif Costs | (915,015.65) | (11,273.00) | (11,273.00) | |
| 28434 | EEO Claims | 452.80 | 138.01 | 590.81 | |
| 28435 | Rev Bond Differential | (106,539.65) | (32,468.74) | (139,008.39) | |
| 28436 | TIP/Rewards Programs | 119,814.53 | 36,774.90 | 156,589.43 | |
| 28441 | Sun Power | 12,330.63 | 3,757.91 | 16,088.54 | |
| 28512 | Revenue Bond Cost Amort. | (678,674.71) | (206,833.19) | (885,507.90) | |
| 28514 | Software (APPRISE only) | (070,074.71) | (22,551.00) | (22,551.00) | |
| 28516 | Honolulu Harbor Reserve | 879,610.69 | 268,072.02 | 1,147,682.71 | |
| 28520 | Deferred Comp - restricted stock | 141,231.75 | 43,041.58 | 184,273.33 | + |
| 28522 | Perry reserve | 64,996.20 | 19,808.00 | 84,804.20 | |
| 28526 | Emissions Fees | 331,750.98 | 101,105.19 | 432,856.17 | |
| 28530 | AES Hawaii PPA | 26,904.63 | 8,199.90 | 35,104.53 | |
| 28532 | CIS Project | (48,966.54) | (14,316.02) | (63,282.56) | |
| 28538 | Rate Case Costs | (287,342.77) | (87,571.54) | (374,914.31) | |
| 28542 | QUIPS amortization | (140,608.50) | (42,852.44) | (183,460.94) | |
| 28544 | OPEB Exec Life | 2,641,514.13 | 805,101.19 | 3,446,615.32 | |
| 28546 | Percentage Repairs Allowance | (1,466,861.75) | (556,699.86) | (2,023,561.61) | |
| 28548 | Cap interest (D&T) | (2,603,450.33) | (1,054,919.70) | (3,658,370.03) | |
| 28550 | E-Business hardware | (19,730.68) | (8,206.93) | (27,937.61) | |
| 28552 | OMS project costs | 262,187.44 | 81,204.84 | 343,392.28 | |
| 28558 | Substation Land - Aiea | - | (2,073.65) | (2,073.65) | |
| 28560 | Solar tax credit | 630.40 | 192.12 | 822.52 | |
| 28564 | HR Suites project costs | (213,369.94) | (67,275.43) | (280,645.37) | |
| 28568 | Solar Saver Program | 43,008.71 | 13,107.14 | 56,115.85 | |
| 28570 | Pension Tracker | (18,456,906.96) | (5,624,946.08) | (24,081,853.04) | |
| 28572 | OPEB Tracker | 1,198,564.16 | 365,276.00 | 1,563,840.16 | |
| 28580 | Blue Earth reserve | (2,163.55) | (659.33) | (2,822.88) | |
| 28584 | RO Water Pipeline | 215,900.82 | 65,798.23 | 281,699.05 | |
| 28590 | Repairs Adjustment | (74,909,026.37) | (22,228,032.86) | (97,137,059.23) | 1 |
| 28592 | Stimulus Funds | 200.17 | 60.96 | 261.13 | |
| 28594 | Budget System Replacement | (135,405.78) | (41,265.98) | (176,671.76) | |
| 28596 28598 | EOTP interest / amort | (2,972.01) | (906.02) | (3,878.03) | |
| 78608 | CIP interest | (116,247.60) | (35,427.08) | (151,674.68) | 1 |

| JELEKKEL | ELECTRIC CO., INC. | | | | |
|---|--|---|---|---|----------|
| EDERAL | NCOME TAXES | DB / (CB) | DR / (CR) | DB / (CB) | |
| EDERAL | | DR / (CR) HECO | HECO | DR / (CR) HECO | |
| | | FEDERAL | STATE | TOTAL | |
| DR / (CR) | | LIABILITY | LIABILITY | LIABILITY | |
| | DESCRIPTION | 12/31/2018 | 12/31/2018 | 12/31/2018 | |
| LIAD | DESCRIPTION | 12/31/2010 | 12/31/2010 | 12/31/2010 | |
| 28602 | Reg Liab Federal PV/EV | 192,541.81 | 58,679.74 | 251,221.54 | |
| | IVR project costs | (174,366.73) | (53,140.93) | (227,507.66) | |
| | Franchise Tax | 1,013,344.05 | 308,828.44 | 1,322,172.49 | |
| | RBA revenues | (7.287.568.48) | (2,220,971.56) | (9.508.540.04) | |
| | NOL - charitable | (6,347.36) | (2,220,971.50) | (6,347.36) | |
| | G/L Lauula | 8.240.41 | (41.55) | 8,198.86 | |
| | Reg Asset - 2017 Excess-other | (3,312,656.78) | (5,623,166.16) | (8,935,822.94) | |
| | <u> </u> | | , | | |
| | Reg Liab - 2017 Excess-other | 7,289,541.76 | 6,835,162.29 | 14,124,704.06 | |
| | Reg Liab - TRA revenues | 965,858.79 | 294,357.59 | 1,260,216.38 | |
| | PSC/PUC tax | 5,781,313.48 | 1,761,927.88 | 7,543,241.36 | |
| | Waianae Solar | 1,774,655.94 | 540,848.68 | 2,315,504.62 | |
| | HT joint pole unbilled | 875,228.59 | 266,736.90 | 1,141,965.49 | |
| | AOCI - NQ Pension | 624,198.92 | 190,228.31 | 814,427.23 | |
| | AOCI - OPEB Exec Life | (538,268.59) | (164,045.19) | (702,313.78) | |
| | FIN 48 tax | 368,936.00 | 661,176.00 | 1,030,112.00 | |
| | FIN 48 interest | 41,253.93 | 12,572.63 | 53,826.56 | |
| 50000 | Rounding | (709.37) | 364.13 | (345.24) | |
| | | | | | |
| ED ACCO | UNT 283, excluding state ITC | (38,254,016.15) | (6,551,668.15) | (44,805,684.30) | |
| 28310 | State ITC | 11,655,223.12 | 3.534.658.68 | 15,189,881.80 | |
| 200.0 | | 11,000,220.12 | 0,001,000.00 | 10,100,001.00 | |
| | TOTAL ACCOUNT 283 | (26,598,793.02) | (3,017,009.47) | (29,615,802.50) | |
| 9210000 | Accelerated Depreciation | (252,669,067.47) | (48,604,627.78) | (201 272 605 25) | |
| | Accelerated Depreciation Accel. Depr Excess | | | (301,273,695.25) | |
| | | 44,073,568.30 | 13,431,888.93 | 57,505,457.23 | |
| 28210200 | Accel. Depr Deficit | (169,370.14) | (51,202.87) | (220,573.02) | |
| | TOTAL ACCOUNT 282 | (208,764,869.31) | (35,223,941.72) | (243,988,811.04) | To Sch E |
| | | (22-22-22-2 | (22.242.254.22) | (0=0 00 (010 =0) | |
| OTAL DEI | F INCOME TAX - UTILITY | (235,363,662.34) | (38,240,951.20) | (273,604,613.53) | |
| 28210300 | Nonutility Depreciation | 555,767.33 | 265,376.64 | 821,143.97 | |
| 28301001 | Nonutility - Other | 1,029,315.35 | 316,263.16 | 1,345,578.51 | |
| | | | | | |
| | RHI Tax Allocation | - | - | - | |
| 28301002 | RHI Tax Allocation | - | - | - | |
| 28301002 28301003 | UBC Tax Allocation | - | - | | |
| 28301002 28301003 50001 | UBC Tax Allocation Rounding | (2.67) | - - - | (2.67) | |
| 28301002 28301003 50001 | UBC Tax Allocation | - | 581,639.80 | | |
| 28301002 28301003 50001 | UBC Tax Allocation Rounding | (2.67) | - - - | (2.67) | |
| 28301002 28301003 50001 OTAL DEF | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX | (2.67) | 581,639.80 | - (2.67) 2,166,719.82 | |
| 28301002 28301003 50001 OTAL DEF | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION | (2.67) 1,585,080.02 (233,778,582.32) | 581,639.80 (37,659,311.40) | 2,166,719.82 (271,437,893.72) | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX | (2.67) | 581,639.80 | - (2.67) 2,166,719.82 | |
| 28301002 28301003 50001 **OTAL DEF **OTAL DEF **OTAL ACC Less: | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) | 581,639.80 (37,659,311.40) (3,017,009.47) | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL BASI OTAL ACC Less: 28312 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) | 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 | |
| 28301002 28301003 50001 OTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF COTAL ACC Less: 28312 28313 28314 28317 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 28317 28323 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF OTAL ACC Less: 28312 28314 28317 28323 28326 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) | - - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 28314 28317 28323 28326 28330 28336 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 | - - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 28314 28317 28323 28326 28330 28336 28337 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 | - - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF COTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28337 28340 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF OTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28336 28337 28340 28341 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF CATE BASIOTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28336 28336 28337 28340 28341 28341 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF OTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28336 28337 28340 28341 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF OTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28336 28337 28341 28341 28347 28341 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 | - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF CATE BASI OTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28336 28336 28337 28340 28341 28347 28347 28350 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 | - - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF CATE BASI OTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28336 28337 28340 28341 28341 28341 28341 28341 28341 28341 28341 28341 28341 28341 28341 28341 28341 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY F INCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 248,241.27 0.21 | 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 | |
| 28301002 28301003 50001 TOTAL DEF TOTAL DEF TOTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28337 28340 28341 28347 28340 28341 28347 28350 28401 28412 28418 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 - 248,241.27 0.21 (25,223.69) | - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) (8,107.96) | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF COTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28337 28340 28341 28347 28340 28341 28341 28341 28342 28340 28340 28401 28418 28412 28418 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 - 248,241.27 0.21 (25,223.69) 17,106.97 | - - - 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) (8,107.96) (16,969.99) | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28314 28317 28323 28326 28330 28336 28336 28337 28340 28341 28347 28340 28341 28347 28340 28341 28347 28340 28441 28412 28418 28422 28434 | UBC Tax Allocation Rounding F INCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 - 248,241.27 0.21 (25,223.69) 17,106.97 452.80 | 581,639.80 (37,659,311.40) (3,017,009.47) (81,566.84) 111,502.91 1,571.96 95,894.48 168,081.11 10,677.39 (125,497.81) 5,795.04 72,700.74 250,548.14 20,452.91 24,369.66 (24,509.00) 75,654.04 (2,428.89) (8,107.96) (16,969.99) 138.01 | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 | |
| 28301002 28301003 50001 COTAL DEF COTAL DEF COTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28330 28336 28337 28340 28341 28347 28350 28401 28412 28418 28412 28418 28422 28434 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 - 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 | | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 | |
| 28301002 28301003 50001 TOTAL DEF TOTAL DEF TOTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28337 28340 28341 28347 28350 28401 28412 28418 28422 28434 28436 28516 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs Honolulu Harbor Reserve | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 879,610.69 | | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 1,147,682.71 | |
| 28301002 28301003 50001 TOTAL DEF TOTAL DEF TOTAL ACC Less: 28312 28313 28314 28317 28323 28326 28330 28336 28337 28340 28347 28347 28340 28347 28340 28341 28441 28442 28448 28422 28434 28436 28516 28520 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs Honolulu Harbor Reserve Deferred Comp - restricted stock | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 - 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 879,610.69 141,231.75 | | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,286.89 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 1,147,682.71 184,273.33 | |
| 28301002 28301003 50001 TOTAL DEF TOTAL DEF TOTAL ACC Less: 28312 28313 28314 28317 28323 28336 28337 28340 28337 28340 28341 28347 28350 28441 28412 28418 28422 28434 28436 28520 28522 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs Honolulu Harbor Reserve Deferred Comp - restricted stock Perry reserve | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 879,610.69 141,231.75 64,996.20 | | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 1,147,682.71 184,273.33 84,804.20 | |
| 28301002 28301003 50001 OTAL DEF COTAL DEF COTAL ACC Less: 28312 28314 28317 28323 28330 28336 28336 28337 28340 28341 28347 28340 28441 2849 2859 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs Honolulu Harbor Reserve Deferred Comp - restricted stock Perry reserve Rate Case Costs | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 - 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 879,610.69 141,231.75 64,996.20 (287,342.77) | - - - - - - - - - - - - - - - - - - - | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 1,147,682.71 184,273.33 84,804.20 (374,914.31) | |
| 28301002 28301003 50001 OTAL DEF OTAL DEF COTAL ACC Less: 28312 28314 28317 28323 28330 28336 28336 28337 28340 28341 28347 28340 28341 28448 28422 28434 28436 28516 28520 28538 28544 | UBC Tax Allocation Rounding FINCOME TAX - NONUTILITY FINCOME TAX E CALCULATION COUNT 283 Accrued Vacation Uncollectible Acct Directors Def Comp Discounted Work Comp Excess Benefit Plan Def Exec Comp (Def EICP<IP) EICP Nondeductible Interest Supplemt Benefits - SERP LTIP Waipahu Baseyard Int Waiau Water Well Pmts Outage Loss Adj Exp Genl/Auto (& Accidents) Genl/Auto Liability - Legal IRP Costs Miscellaneous EEO Claims TIP/Rewards Programs Honolulu Harbor Reserve Deferred Comp - restricted stock Perry reserve | (2.67) 1,585,080.02 (233,778,582.32) (26,598,793.02) (247,391.60) 365,876.81 8,117.74 313,824.26 566,372.66 35,031.69 (358,728.30) 19,016.26 272,295.28 822,110.82 67,116.93 79,910.90 248,241.27 0.21 (25,223.69) 17,106.97 452.80 119,814.53 879,610.69 141,231.75 64,996.20 | | (2.67) 2,166,719.82 (271,437,893.72) (29,615,802.50) (328,958.44) 477,379.72 9,689.70 409,718.74 734,453.77 45,709.08 (484,226.11) 24,811.30 344,996.02 1,072,658.96 87,569.84 104,280.56 (24,509.00) 323,895.31 (2,428.68) (33,331.65) 136.98 590.81 156,589.43 1,147,682.71 184,273.33 84,804.20 | |

| HAWAIIAN | ELECTRIC CO., INC. | | | | |
|--------------|----------------------------------|------------------|-----------------|------------------|-----------|
| DEFERRED | INCOME TAXES | | | | |
| FEDERAL | | DR / (CR) | DR / (CR) | DR / (CR) | |
| | | HECO | HECO | HECO | |
| | | FEDERAL | STATE | TOTAL | |
| DR / (CR) | | LIABILITY | LIABILITY | LIABILITY | |
| LIAB | DESCRIPTION | 12/31/2018 | 12/31/2018 | 12/31/2018 | |
| | | | | | |
| 28580 | Blue Earth reserve | (2,163.55) | (659.33) | (2,822.88) | |
| 28600 | ERP project costs | (1,035,960.90) | (315,721.84) | (1,351,682.74) | |
| 28608 | Franchise Tax | 1,013,344.05 | 308,828.44 | 1,322,172.49 | |
| 28614 | RBA revenues | (7,287,568.48) | (2,220,971.56) | (9,508,540.04) | |
| 28618 | NOL - charitable | (6,347.36) | - | (6,347.36) | |
| 28630 | Reg Liab - TRA revenues | 965,858.79 | 294,357.59 | 1,260,216.38 | |
| 28632 | PSC/PUC tax | 5,781,313.48 | 1,761,927.88 | 7,543,241.36 | |
| 28634 | Waianae Solar | 1,774,655.94 | 540,848.68 | 2,315,504.62 | |
| | AOCI - NQ Pension | 624,198.92 | 190,228.31 | 814,427.23 | |
| AOCIOPEB | AOCI - OPEB Exec Life | (538,268.59) | (164,045.19) | (702,313.78) | |
| 48000 | FIN 48 tax | 368,936.00 | 661,176.00 | 1,030,112.00 | |
| 48002 | FIN 48 interest | 41,253.93 | 12,572.63 | 53,826.56 | |
| | Adjustment for EOTP, CIS and CIP | (114,827.94) | (34,994.66) | (149,822.60) | |
| Total Exclus | sions | 7,351,657.84 | 2,701,979.21 | 10,053,637.05 | |
| Total 283 D | eferred Taxes for Rate Base | (33,950,450.87) | (5,718,988.68) | (39,669,439.55) | To Sch D4 |
| Total 282 D | eferred Taxes for Rate Base | (208,764,869.31) | (35,223,941.72) | (243,988,811.04) | |
| TOTAL DEI | F INCOME TAX - RATE BASE | (242,715,320.18) | (40,942,930.41) | (283,658,250.59) | To Sch D4 |

HAWAIIAN ELECTRIC CO., INC. ADIT ON EXCESS DEPRECIATION DECEMBER 31, 2018

| | | eonnos | ERP/EAM HARDWARF | KOOLAU- WAII IIPF #1 | TOTAL |
|----|---|-------------------|---------------------|-------------------------|---------------------|
| | FEDERAL DEFERRED TAXES | 201000 | | | |
| _ | State Tax Depreciation | page 2, 3 | 7,356 | 14,620 | 21,976 |
| 2 | Book Depreciation | HECO-WP-E-001 | (2,829) | (4,211) | (7,040) |
| 3 | Subtotal | Line 1 + Line 2 | 4,527 | 10,409 | 14,936 |
| 4 | Effective Federal Tax Rate | | 19.7368% | 19.7368% | 19.7368% |
| S | Federal Deferred Tax on State Depreciation | Line 3 * Line 4 | 893 | 2,054 | 2,948 |
| 9 | Addback State Tax Depreciation | Line 3 | (4,527) | (10,409) | (14,936) |
| 7 | Federal Tax Depreciation | page 2, 3 | 10,751 | 71,941 | 82,692 |
| ∞ | Book Depreciation | Line 2 | (2,829) | (4,211) | (7,040) |
| 6 | Federal State Difference | Line 6 + 7 + 8 | 3,395 | 57,321 | 60,716 |
| 10 | Tax Rate on Federal Only Adjustment | | 21% | 21% | 21% |
| 11 | Federal Deferred Tax Adjustment | Line 9 * Line 10 | 713 | 12,037 | 12,750 |
| 12 | Total Federal Deferred Taxes | Line 5 + Line 11 | 1,606 | 14,091 | 15,698 |
| | STATE DEFERRED TAXES | | | | 10 3cm D4 |
| 13 | State Tax Depreciation Book Depreciation | Line 1 Line 2 | 7,356 | 14,620 (4,211) | 21,976 (7.040) |
| 15 | Subtotal | Line 13 + Line 14 | 4,527 | 10,409 | 14,936 |
| 16 | Effective State Tax Rate | | 6.0150376% | 6.0150376% | 6.0150376% |
| 17 | Total State Deferred Taxes | Line 15 * Line 16 | 272 | 979 | 868 |
| 18 | TOTAL DEFERRED TAXES | Line 12 + Line 17 | 1,878 | 14,717 | to Sch D4 16,596 |
| | _ | | to Sch D1 | to Sch D1 | to Sch D4 |

HAWAIIAN ELECTRIC CO., INC. EXCESS TAX DEPRECIATION KOOLAU-WAILUPE #1

| 2018 | | 4,648 495 | 5,143 71,941 To nage 1 | | 9,296 495 | 9,791 14,620 To page 1 |
|--------------------------|----------------|--|------------------------|--------|--|------------------------------|
| 2017 | | 86,798 | 66,798 | | 4,829 | 4,829 |
| Bonus | | 50 | 1 | | 0 0 | 1 |
| Life | | 20 | | | 20 | |
| Plant Acet Life Bonus | | Trans | | | Trans | |
| Disallowed Costs | | 128,768 13,203 | 141,971 | | 128,768 13,203 | 141,971 |
| Less PUC Approved Amt | | 2,555,619 | 2,555,619 | | 2,555,619 | 2,555,619 |
| Total Basis | HECO-WP-D2-001 | 2,684,387 | 2,697,590 | | 2,684,387 13,203 | 2,697,590 |
| Description | | Koolau-Wailupe #1 Koolau-Wailupe #1 | Total Cumulative | | Koolau-Wailupe #1 Koolau-Wailupe #1 | Total Cumulative |
| DIS | | v2017 v2018 | | | v2017 v2018 | |
| Project No. | FEDERAL | PE000104 | | HAWAII | PE000104 | |

HAWAIIAN ELECTRIC CO., INC. EXCESS TAX DEPRECIATION ERP/EAM HARDWARE

| 2018 | 2,263 | 2,263 10,751 | 10 page 1 | 4,527 | 4,527 7,356 To page 1 |
|--------------------------|-----------------------------|---------------------|-----------|------------------|-----------------------------|
| 2017 | 8,488 | 8,488 | | 2,829 | 2,829 |
| Bonus | 50 | 1 | | 0 | 1 11 |
| Life | S | | | 8 | |
| Plant Acct Life Bonus | 14,146 Computer | | | 14,146 Computer | |
| Disallowed Costs | 14,146 | 14,146 | | 14,146 | 14,146 |
| Less PUC Approved Amt | 2,590,000 | 2,590,000 | | 2,590,000 | 2,590,000 |
| Total Basis | HECO-WP-D2-001 2,604,146 | 2,604,146 | | 2,604,146 | 2,604,146 |
| Description | ERP/EAM Hardware | Total Cumulative | | ERP/EAM Hardware | Total Cumulative |
| DIS | v2017 | | | v2017 | |
| Project No. | FEDERAL P0003205 | | HAWAII | P0003205 | |

HAWAIIAN ELECTRIC CO., INC. MPIR ADIT - SCHOFIELD GENERATING STATION DECEMBER 31, 2018

| DEC | EMIDER 31, 2016 | | | | | | | 2018 |
|-------------|---|-------------------|--------------------------|----------------------------|--------------------------|--------------------------|----------------------|--------------------------|
| | | source | Tax Depreciation | AFUDC | Tax Cap Interest | State ITC | Removal | Total |
| | FEDERAL DEFERRED TAXES |] | (page 2 of 5) | (page 3 of 5) | (page 3 of 5) | (page 3 of 5) | (page 5 of 5) | |
| 1 | State Book/Tax Difference Book Depreciation | HECO-WP-L-001 | (6,856,503) | (11,964,962) | 7,675,319 | 4,216,602 | (185,002) | (7,114,546) |
| 3 | Subtotal | Line 1 + Line 2 | (6,856,503) | (11,964,962) | 7,675,319 | 4,216,602 | (185,002) | (7,114,546) |
| 4 | Effective Federal Tax Rate | | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% |
| 5 | Federal Def Tax on State Book/Tax Diff | Line 3 * Line 4 | (1,353,254) | (2,361,501) | 1,514,862 | 832,222 | (36,513) | (1,404,184) |
| 6 7 8 | Addback State Book/Tax Difference Federal Book/Tax Difference Book Depreciation | Line 3 | 6,856,503 (6,856,502) | 11,964,962 (11,964,962) | (7,675,319) 7,675,319 | (4,216,602) 4,216,602 | 185,002 (185,002) | 7,114,546 (7,114,545) |
| 9 | Federal State Difference | Line $6 + 7 + 8$ | 1 | - | - | - | - | 1 |
| 10 | Tax Rate on Federal Only Adjustment | | 21% | 21% | 21% | 21% | 21% | 21% |
| 11 | Federal Deferred Tax Adjustment | Line 9 * Line 10 | - | - | - | - | - | - |
| 12 | Total Federal Deferred Taxes | Line 5 + Line 11 | (1,353,254) | (2,361,501) | 1,514,862 | 832,222 | (36,513) | (1,404,184) |
| | STATE DEFERRED TAXES |] | | | | | | To Sch D4 |
| 13 14 | | Line 1 Line 2 | (6,856,503) | (11,964,962) | 7,675,319 | 4,216,602 | (185,002) | (7,114,546) |
| 15 | | Line 13 + Line 14 | (6,856,503) | (11,964,962) | 7,675,319 | 4,216,602 | (185,002) | (7,114,546) |
| 16 | Effective State Tax Rate | | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% |
| 17 | Total State Deferred Taxes | Line 15 * Line 16 | (412,421) | (719,697) | 461,673 | 253,630 | (11,128) | (427,943) |
| 18 | TOTAL DEFERRED TAXES | Line 12 + Line 17 | (1,765,675) | (3,081,198) | 1,976,535 | 1,085,852 | (47,641) | To Sch D4 (1,832,127) |

To Sch D4

HAWAIIAN ELECTRIC CO., INC. TAX DEPRECIATION SCHOFIELD GENERATION STATION

| | | | Less: | Add: | | | | | |
|-------------|------------------------------|-------------------|--------------|-----------|-------------|------------|------|-------|----------------|
| Project No. | Description | Book Basis | AFUDC | TCI | Tax Basis | Plant Acct | Life | Bonus | 2018 |
| | _ | | | | | | | | _ |
| FEDERAL | | | | | | | | | |
| P0001576 | Schofield Generation Station | 65,512,935 | (5,393,539) | 3,459,864 | 63,579,259 | Oth Prod | 15 | 0% | 3,178,963 |
| P0001576 | Schofield Generation Station | 65,512,935 | (5,393,539) | 3,459,864 | 63,579,259 | Oth Prod | 15 | 0% | 3,178,963 |
| P0001576 | Schofield Generation Station | 5,751,969 | (522,427) | 335,128 | 5,564,670 | Trans | 20 | 0% | 208,675 |
| P0001576 | Schofield Generation Station | 5,751,969 | (522,427) | 335,128 | 5,564,670 | Trans | 20 | 0% | 208,675 |
| P0001576 | Schofield Generation Station | 1,106,868 | (66,514) | 42,668 | 1,083,021 | Comm | 20 | 0% | 40,613 |
| P0001576 | Schofield Generation Station | 1,106,868 | (66,514) | 42,668 | 1,083,021 | Comm | 20 | 0% | 40,613 |
| | | | | | | | | | |
| | Total | 144,743,542 | (11,964,962) | 7,675,319 | 140,453,899 | | | | 6,856,502 |
| | Cumulative | | | | | | | | To page 1 of 5 |
| | _ | | | | | | | | |
| HAWAII | | | | | | | | | |
| P0001576 | Schofield Generation Station | 131,025,869 | (10,787,079) | 6,919,727 | 127,158,518 | Oth Prod | 15 | 0 | 6,357,926 |
| P0001576 | Schofield Generation Station | 11,503,937 | (1,044,854) | 670,256 | 11,129,339 | Trans | 20 | 0 | 417,350 |
| P0001576 | Schofield Generation Station | 2,213,736 | (133,029) | 85,336 | 2,166,043 | Comm | 20 | 0 | 81,227 |
| | | , , , | (, -) | , , , | , , - | | | | , |
| | Total | 144,743,542 | (11,964,962) | 7,675,319 | 140,453,899 | | | | 6,856,503 |
| | Cumulative | | | | | | | | To page 1 of 5 |

Hawaiian Electric Company, Inc. Breakdown of SGS Costs by Major Area Actuals through December 2018

| TOTAL PLANT ADDITIONS: | A | В | C | D | E=SUM(B:D) | F=A+E | |
|-------------------------------|---|-----------|-----------|-----------------------|--------------------------|---------------|------------------|
| Expense Element | Generating Station and Switchyard | 46kV Line | Telecom | Wahiawa Substation | Total Interconnection | Total Project | State ITC |
| Labor | 2,293,428 | 1,712,982 | 305,919 | 741,234 | 2,760,135 | 5,053,564 | |
| Materials | 32,932,285 | 1,523,772 | 545,040 | 512,566 | 2,581,378 | 35,513,663 | 35,513,663 |
| Vehicles | 2,062 | 117,109 | 187 | 563 | 117,859 | 119,921 | |
| Overheads | 12,885,912 | 2,456,221 | 544,975 | 928,736 | 3,929,932 | 16,815,844 | |
| AFUDC | 10,787,079 | 703,160 | 133,029 | 341,694 | 1,177,883 | 11,964,962 | |
| Outside Services-Construction | 69,147,360 | 614,746 | 59,095 | 80,179 | 754,019 | 69,901,379 | 69,901,379 |
| Outside Services-Other | 2,550,389 | 1,421,977 | 621,195 | 348,999 | 2,392,171 | 4,942,560 | |
| Other | 427,354 | - | 4,296 | - | 4,296 | 431,650 | |
| _ | 131,025,869 | 8,549,966 | 2,213,736 | 2,953,971 | 13,717,673 | 144,743,542 | |
| Amount subject to bonus (A) | 50% | 50% | 50% | 50% | 50% | 50% | 105,415,043 |
| - - | 65,512,935 | 4,274,983 | 1,106,868 | 1,476,985 | 6,858,836 | 72,371,771 | 4% |
| - | | | | | | | 4,216,602 |
| | | | 5,751,969 | | | | To page 1 of 5 |
| Tie out of TCI: | | | | | | | |
| AFUDC | 10,787,079 | 703,160 | 133,029 | 341,694 | 1,177,883 | 11,964,962 | To page 1 of 5 |
| ratio - 5 year average | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | From page 4 of 5 |
| TCI | 6,919,727 | 451,065 | 85,336 | 219,191 | 755,592 | 7,675,319 | To page 1 of 5 |
| | | | 670,256 | | | | |

Source: Ellipse & SAP

(A) - At year end, no bonus depreciation was taken for Schofield Generation Station. See page 2 for tax depreciation calculation.

Hawaiian Electric Company, Inc. Annual - TCI Closed to AFUDC Closed Ratio

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | 5 Yr Ave |
|-------|-------------|-------------|-------------|-------------|-------------|----------------|
| TCI | 3,820,695 | 4,825,860 | 4,299,588 | 4,056,549 | 5,041,274 | 22,043,966 |
| AFUDC | 5,511,275 | 7,365,025 | 6,668,924 | 6,540,575 | 8,278,273 | 34,364,072 |
| | | | | | | |
| Ratio | 0.693251 | 0.655240 | 0.644720 | 0.620213 | 0.608977 | 0.641483 |
| | | | | | | To page 3 of 5 |

Hawaiian Electric Company, Inc. MPIR Removal Costs Actuals Through December 31, 2018

| Row Labels | Sum of amount |
|--------------------|----------------|
| Labor | 90,530 |
| Materials | 46 |
| Overheads | 94,426 |
| Grand Total | 185,002 |
| | To page 1 of 5 |

SOURCE: Ellipse & SAP

Hawaiian Electric Company, Inc. 2018 Major Projects Excess Cost, Net of CIAC

| [1] | [1] | | [2] | [1] | | | | | [1] | [2] 2017 Net | [1] | [3] | [2] | To Sch D1 | |
|-------------------------------|--|--------------------|------------------------------------|------------------------------------|---------------|-------------------------------------|--------------------|--------------------|------------------------|--------------------------------|---|--|-----------------------------------|---|-----------------------------------|
| Grandparent # or Project # | Project | Date In Service | Net Plant Adds Thru 12/31/17 | Net Plant Adds Thru 12/31/18 | Plant Acct | Docket No 2010-0053 Depr Rate | 2018 Depr | 2019 Depr | Net PUC Approved | Cost in Excess of Docket | 2018 Net Cost in Excess of Docket | Prior Years Depr Related to Excess | 2018 Depr Related to Excess | Cumulative Depr Related to Excess | 2019 Depr Related to Excess |
| of Froject# | Troject | Scrvice | (A) | (B) | Acti | (C) | (D) = (A) * (C) | (E) = (B) * (C) | (F) | (G) | (H) = (B) - (F) | (I) | (J) = (G)/(A) * (D) | (K) = | (L) = (H) / (B) * (E) |
| PZ.000003/ (P0003205) | ERP EAM Hardware | 2017/06 | 2,604,146 | 2,604,146 | 391.1 | 0.20000 | 520,829 | 520,829 | 2,590,000 | 14,146 | 14,146 | - | 2,829 | 2,829 | 2,829 |
| PE.000104 (P0003465) | Koolau-Wailupe #1 Str 30 P9 Replace | 2017/07 | 2,684,387 | 2,697,590 | 356 | 0.03270 | 87,779 | 88,211 | 2,555,619 | 128,768 | 141,971 | - | 4,211 | 4,211 | 4,642 |
| PZ.000016/ PZ001002 | Schofield Generation | | | | | | | | | | | | | | |
| (P0001576) | Station - Note [4] | 2018/06 | - | 142,147,612 | 343 | 0.03260 | - | 4,634,012 | | | | | | | |
| | | | - | 2,003,490 352,190 | 352 | 0.01600 0.01860 | - | 32,056 | | | | | | | |
| | | | - | 240,250 | 353 397 | 0.01860 | - | 6,551 16,025 | | | | | | | |
| | | | | 144,743,542 | | | | 4,688,643 | - | - | 144,743,542 | - | - | - | 4,688,643 |

^[1] Source: HECO-WP-D2-001

^[2] Source: Transmittal No. 18-01 (Decoupling) - Hawaiian Electric Company RBA Rate Adjustment, HECO-WP-E-001, filed on May 29, 2018.

^[3] Source: Transmittal No. 18-01 (Decoupling) - RBA Rate Adjustment (Filed May 29, 2018), HECO-WP-E-001, column (L), "Cumulative Depr Related to Excess".

^[4] The Schofield Generation Station project is recovered via the Major Project Interim Recovery (MPIR) mechanism at the Schedule L series. As such, the entire project related costs will be excluded from all Decoupling calculations.

Hawaiian Electric Company Calculation of Composite Effective Income Tax Rates Federal and State

Composite Federal and State Effective Income Tax Rate

| | Eff 1/1/2018 | 2017 & Prior |
|-----------------------------------|--------------|--------------|
| Federal Effective Income Tax Rate | 19.7368421% | 32.8947368% |
| State Effective Income Tax Rate | 6.0150376% | 6.0150376% |
| | 25.7518797% | 38.9097744% |

Calculation of Effective Rates

Assumptions:

ST = State Income Tax Expense

FT = Federal Income Tax Expense

Pre-Tax Income = \$1.00 State Statutory Income Tax Rate*

Federal Statutory Income Tax Rate**

 Eff 1/1/2018
 2017 & Prior

 6.4%
 6.4%

 21.0%
 35.0%

Calculation of State Effective Income Tax Rate

State Income Tax Expense = Statutory Rate x (Pre-Tax Income - State Income Tax Expense)

 $ST = .064 \times (1 - ST)$

ST = .064 - .064(ST)

1.064(ST) = .064

ST = .060150376 or 6.0150376% of Pre-Tax Income

Calculation of Federal Effective Income Tax Rate

rederal Income Tax Expense = Statutory Rate x (Pre-Tax Income - State Income Tax Expense)

Effective 1/1/18

 $FT = .21 \times (1 - ST)$

 $FT = .21 \times (1 - .060150376)$

FT = .21 - .01263157896

FT = .197368421 or 19.7368421% of Pre-Tax Income

2017 & Prior

FT = .35 x (1 - ST)

 $FT = .35 \times (1 - .060150376)$

FT = .35 - .01263157896

FT = .328947368 or 32.8947368% of Pre-Tax Income

^{*} Hawaii Revised Statutes §235.71 was amended for tax years beginning after 1986.

^{**} The Tax Cuts and Jobs Act changed the Federal tax rate for tax years ending after December 31, 2017.

HAWAIIAN ELECTRIC COMPANY, INC. TAX REPAIRS ADJUSTMENT 2018

| | LIFE | HECO-WP- F1-002 5 YR AVERAGE | A Plant Adds | B HECO-WP- F1-001, pg 2 Repairs Allocation | C = A x B Repairs Deduction | D = A - C Depreciable Basis |
|----------------------|------|---------------------------------------|--------------|--|------------------------------|-------------------------------|
| Computers/PV | 5 | 6,092 | | | | |
| Communication | 20 | 5,920 | | | | |
| Off/Furn/Tools | 7 | 5,022 | | | | |
| Distribution | 20 | 130,472 | 130,472,000 | 19.67% | 25,659,352 | 104,812,648 |
| Land | - | 816 | | | | |
| Non-Steam Production | 15 | 3,713 | 3,713,000 | 0.04% | 1,582 | 3,711,418 |
| Steam Production | 20 | 22,905 | 22,905,000 | 28.28% | 6,477,859 | 16,427,141 |
| Structural | 39 | 3,265 | | | | |
| Transmission | 20 | 21,834 | 21,834,000 | 4.49% | 980,382 | 20,853,618 |
| Transmission | 15 | 34,674 | 34,674,000 | 4.49% | 1,556,918 | 33,117,082 |
| Vehicles | - | 5,209 | | | | |
| TOTAL | | 239,922 | 213,598,000 | | 34,676,093 | 178,921,907 |
| | | | | = | To Sch F1 | |

NOTE 1> This schedule computes the estimated amount of deductible tax repairs related to the baseline plant additions for the RAM year. The deductible tax repairs amounts are carried forward to Schedule F1 and serve to reduce the depreciable tax basis for the baseline plant additions. The repairs percentages (Column B) are calculated on HECO-WP-F1-001, page 2.

NOTE 2> The numbers (excluding %s) are rounded to the nearest thousand.

HAWAIIAN ELECTRIC COMPANY, INC. REPAIRS DEDUCTION

| | <u>-</u> | Distribution | Non Steam | Steam | Transmission | |
|------------|----------------|--------------|-------------|-------------|--------------|--|
| Repairs %: | | | | | | |
| • | basis repairs | | | | | |
| 2014 | | 40,010,784 | | 8,698,003 | 1,620,540 | |
| 2015 | | 28,855,969 | | 8,823,262 | 3,152,508 | |
| 2016 | | 19,906,067 | | 6,512,311 | 2,697,168 | |
| 2017 | | 24,350,324 | 71,857 | 5,491,680 | 4,271,225 | |
| 2018 | | 23,503,387 | | 4,894,363 | 1,396,139 | |
| | - - | 136,626,531 | 71,857 | 34,419,619 | 13,137,580 | |
| Total book | basis adds | | | | | |
| 2014 | HECO-WP-F1-002 | 139,366,000 | 12,311,000 | 30,119,000 | 57,957,000 | |
| 2015 | HECO-WP-F1-002 | 150,513,000 | 5,613,000 | 25,823,000 | 48,871,000 | |
| 2016 | HECO-WP-F1-002 | 117,566,000 | 268,000 | 24,812,000 | 79,269,000 | |
| 2017 | HECO-WP-F1-002 | 147,966,000 | 1,658,000 | 22,867,000 | 73,183,000 | |
| 2018 | HECO-WP-F1-002 | 139,304,000 | 148,783,000 | 18,083,000 | 33,306,000 | |
| | - | 694,715,000 | 168,633,000 | 121,704,000 | 292,586,000 | |
| AVERAGE | € % | 19.666558% | 0.042611% | 28.281420% | 4.490160% | |

NOTE 1> With the assistance of Price Waterhouse Coopers, the repairs deduction analysis was performed in 2010, 2012, 2015 and 2016 in connection with changing HECO's method of identifying deductible repairs for tax accounting purposes. The repairs percentage for each functional group represents the five year weighted average of the identified repairs costs.

NOTE 2> The numbers (excluding %s) are rounded to the nearest thousand.

HAWAIIAN ELECTRIC COMPANY, INC. BASELINE PLANT ADDS

| | | | | | | | LESS: MAJOR | | | % |
|----------------------|------|---------|---------|---------|---------|---------|----------------|-----------|---------|---------|
| | LIFE | 2014 | 2015 | 2016 | 2017 | 2018 | PROJECTS | TOTAL | AVERAGE | AVERAGE |
| Computers/PV | 5 | 6,681 | 8,980 | 5,219 | 7,587 | 4,596 | (2,604) | 30,459 | 6,092 | 2.54% |
| Communication | 20 | 5,340 | 5,183 | 5,870 | 7,349 | 6,611 | (754) | 29,599 | 5,920 | 2.47% |
| Off/Furn/Tools | 7 | 8,242 | 4,315 | 2,964 | 5,204 | 4,384 | . , | 25,109 | 5,022 | 2.09% |
| Distribution | 20 | 139,366 | 150,513 | 117,566 | 147,966 | 139,304 | (42,353) | 652,362 | 130,472 | 54.38% |
| Land | - | 1,729 | 1,233 | 11 | 262 | 847 | | 4,082 | 816 | 0.34% |
| Non-Steam Production | 15 | 12,311 | 5,613 | 268 | 1,658 | 148,783 | (150,069) | 18,564 | 3,713 | 1.55% |
| Steam Production | 20 | 30,119 | 25,823 | 24,812 | 22,867 | 18,083 | (7,178) | 114,526 | 22,905 | 9.55% |
| Structural | 39 | 2,899 | 5,468 | 1,647 | 5,217 | 1,092 | | 16,323 | 3,265 | 1.36% |
| | | | | | | | | | | |
| Transmission | 20 | 13,295 | 21,461 | 38,676 | 29,442 | 8,994 | (2,698) | 109,170 | 21,834 | 9.10% |
| Transmission > 69kv | 15 | 44,662 | 27,410 | 40,593 | 43,741 | 24,312 | (7,349) | 173,369 | 34,674 | 14.45% |
| | | 57,957 | 48,871 | 79,269 | 73,183 | 33,306 | (10,047) | 282,539 | 56,508 | 23.55% |
| | | | | | | | | | | |
| Vehicles | - | 4,682 | 10,540 | 3,665 | 5,460 | 1,697 | | 26,044 | 5,209 | 2.17% |
| | | | | | | | | | | |
| TOTAL | | 269,326 | 266,539 | 241,291 | 276,753 | 358,703 | (213,005) | 1,199,607 | 239,921 | 100.00% |

To WP-F1-001

HAWAIIAN ELECTRIC CO., INC. PRORATION ADJUSTMENT FOR NORMALIZATION COMPLIANCE FEDERAL ADIT DR/(CR)

| ADIT account 282 Federal accelerated depreciation | Federal ADIT DR/(CR) | January | February | March | April | May | June | July | August | September | October | November | December | |
|---|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------|
| Beginning balance Sch D4 | (208,749,171) | | | | | | | | | | | | | |
| Federal Tax Depreciation Effective Federal Tax Rate Net ADIT accrued 2019 | (20,239,341) 19.7368% (3,994,598) | | | | | | | | | | | | | |
| Monthly Accrued evenly over 12 month | (332,883) | | | | | | | | | | | | | |
| WITHOUT PRORATION Federal 282 ADIT Balance | Beg of Yr | January | February | March | April | May | June | July | August | September | October | November | December | End of Yr |
| Monthly Additions Cumulative Balance | (208,749,171) (208,749,171) | (332,883) (209,082,054) | (332,883) (209,414,937) | (332,883) (209,747,821) | (332,883) (210,080,704) | (332,883) (210,413,587) | (332,883) (210,746,470) | (332,883) (211,079,353) | (332,883) (211,412,237) | (332,883) (211,745,120) | (332,883) (212,078,003) | (332,883) (212,410,886) | (332,883) (212,743,769) | (3,994,598) (212,743,769) |
| | | | | | | | | | | | Simple Yea | ar Average - Wit | hout Proration | (210,746,470) |
| WITH PRORATION Days new rates in effect 6/1/2019 Prorated additions Cumulative ADIT balance with proratio | | (332,883) (209,082,054) | (332,883) (209,414,937) | (332,883) (209,747,821) | (332,883) (210,080,704) | (332,883) (210,413,587) | (287,773) (210,701,360) | (239,551) (210,940,911) | (191,330) (211,132,241) | (144,664) (211,276,905) | (96,443) (211,373,348) | (49,777) (211,423,125) | (1,556) (211,424,681) | (2,675,510) (211,424,681) |
| | | | | | | | | | | | Simple | Year Average - V | With Proration | (210,086,926) |
| | | | | | | | | | | | A | Adjustment to rat | | 659,544 To Schedule F |
| Days new rate in effect | | 335 | 307 | 276 | 246 | 215 | 185 | 154 | 123 | 93 | 62 | 32 | 1 | |
| Days in the month | | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 30 | 31 | 365 |

Note: Methodology based on IRS Private Letter Ruling 9313008

HAWAIIAN ELECTRIC COMPANY, INC. AVERAGE RATE BASE AND RATE OF RETURN (\$ Thousands)

| | Month- | -End | |
|--|-----------|-----------|------------------------|
| RATE BASE | Dec 2017 | Dec 2018 | REFERENCE |
| NIVEGENIEWE BY A COPTE OF DAILY OF CHOTOMERO | | | |
| INVESTMENTS IN ASSETS SERVING CUSTOMERS | | | |
| NET COST OF PLANT IN SERVICE | 2 220 022 | 2 522 240 | N-4- 2 |
| Total Utility Plant | 3,330,923 | 3,523,249 | Note 2 |
| Adjustments: | | | 27 |
| Construction Work in Progress | (245,995) | (550,571) | Note 2 |
| Regulatory Asset - ARO | - | 331 | GL#18670151 |
| Asset Retirement Obligation | (2,539) | (4,780) | GL#25301000 |
| Regulatory Liability for Cost of Removal | (327,225) | (356,926) | GL#25400001 |
| Plant - Tenant Allowance | (14,058) | (14,132) | GL#10100002 |
| Acc Amort - Tenant Allowance | 8,662 | 9,824 | GL#11160000 |
| Unbilled Pole Credits | | (4,435) | within GL#25300000 |
| | 2,749,768 | 2,602,560 | Note 1 |
| FUEL INVENTORY | 64,972 | 54,262 | Note 2 |
| MATERIALS & SUPPLIES INVENTORIES (excl Stores Expense) | 26,517 | 27,953 | GL#90154000, Note 2 |
| UNAMORT NET ASC 740 REG ASSET | 78,576 | 77,465 | ADIT Tax Sch |
| PENSION TRACKING REG ASSET | 115,531 | 96,993 | GL#18676040 |
| OPEB TRACKING REG ASSET | 3,112 | - | GL#18677040 |
| PENION NON-SERVICE COST REG ASSET | - | 883 | GL#18676045 |
| EOTP REG ASSET | 89 | 20 | GL#18670124/5/6 |
| CIP CT-1 REG ASSET | 1,352 | 795 | GL#18670120/21/22 |
| DEFERRED SYSTEM DEVELOPMENT COSTS | • | | |
| OMS | 746 | 445 | GL#18607004 |
| HR Suites-Phase 1 | 1,307 | 951 | GL#18606004 |
| HR Suites-Phase 2 | 512 | 384 | GL#18606104 |
| Budget System Replacement Project | 885 | 739 | GL#18607704 |
| IVR | 1,000 | 883 | GL#18670400 |
| CIS | 9,046 | 7,827 | Acctg Dept Amort Sch |
| Cib | 13,496 | 11,229 | Acetg Dept Amort Sen |
| RO WATER PIPELINE REG ASSET | 4,842 | 4,725 | GL#18670152 |
| | 2,240 | 4,723 | GL#18676030 |
| CONTRIB IN EXCESS OF NPPC TOTAL INVESTMENTS IN ASSETS | . ———— - | 2 977 995 | GL#180/0030 |
| TOTAL INVESTMENTS IN ASSETS | 3,060,495 | 2,876,885 | |
| FUNDS FROM NON-INVESTORS | | | |
| UNAMORTIZED CIAC | 365,482 | 30,110 | Note 5 |
| CUSTOMER ADVANCES | | | |
| Customer Advances | 4,239 | 6,392 | GL#25200000 |
| Developer Advances | 33,884 | 21,345 | Note 3 |
| | 38,123 | 27,737 | |
| CUSTOMER DEPOSITS | 11,113 | 10,409 | GL#23501000 |
| ACCUMULATED DEF INCOME TAXES | 283,136 | 283,659 | Schedule D4 |
| EXCESS ACCUMULATED DEF INCOME TAXES | 278,582 | 278,156 | GL#25400023/24, Note 4 |
| UNAMORTIZED ITC (GROSS) | 57,594 | 58,897 | GL#25520000/20004 |
| | 750 | 724 | GL#25503000 |
| UNAMORTIZED FEDERAL EV CREDIT | 182 | 116 | GL#25400101/02/09 |
| UNAMORTIZED GAIN ON SALE | 162 | | |
| PENSION TRACKING REG LIAB | 5 442 | 3,478 | GL#25400004 |
| OPEB TRACKING REG LIAB | 5,443 | 1,858 | GL#25400002 |
| TOTAL DEDUCTIONS | 1,040,405 | 695,144 | |
| WORKING CASH | 7,068 | 11,027 | HECO-WP-H-008 |
| RATE BASE | 2,027,158 | 2,192,768 | |
| SIMPLE AVERAGE RATE BASE | | 2,109,963 | To Schedule H |

Footnotes:

- * Amounts may not add up due to rounding.
- 1 Includes Property Held for Future Use balance of \$0 for 2018 and 2017.
- 2 See Hawaiian Electric Company Inc. Monthly Financial Report December 2018, filed February 28, 2019.
 Note that Materials & Supplies Inventory include an adjustment of (\$1,116) and (\$1,489) representing payment lags in 2017 and 2018, respectively.
- 3 The Company reclassified cash received from Developers, subject to refund, to Customer Advances. Amount has been isolated for greater transparency within the rate base calculation. See further discussion at Schedule G.
- 4 As a result of the 2017 Tax Reform Act, Regulatory Liability accounts were created to isolate the impact of the 2017 excess accumulated deferred taxes effective in actuals as of December 2017. These Regulatory Liabilities have been included as a reduction to Rate Base. Deferred tax asset related to excess accumulated deferred taxes is included in Unamortized Net ASC 740 Reg Asset.
- 5 For 2018, CIAC is netted with Plant In Service, CWIP and Developer Advances, resulting from the Company's transition to FERC treatment in October 2018. See further discussion of the Company's treatment of CIAC at HECO-WP-D1-001.

HAWAIIAN ELECTRIC COMPANY, INC.

Ratemaking Adjustments For Incentive Compensation And Other Non-Recoverable Expenses $2018\,$

| Line | Account/Order No. | Description | | 2018 | Tax @ 25.75% | Net of Tax | Rounded (000s) |
|------|--------------------------------|---|------------|-----------|-----------------|---------------|----------------|
| 1 | Executive Compensation | and Incentive Compensation | | | | | |
| 2 | 70025/26/#60003110 | LTIP and EICP expense | (a) | 3,310,738 | | | |
| 3 | 70027/ #60004000 | Other incentive awards | () | 828,135 | | | |
| 4 | Provided by HEI | HEI charges for incentive compensation | (a) | 692,751 | | | |
| 5 | Non-Executive Incentive | | . , | ĺ | | | |
| | Wksht | Non-executive incentive programs | (a) | 457,781 | | | |
| 6 | 70028/ #60003110 | Manager award plan | (a) | 195,785 | | | |
| 7 | | | | 5,485,190 | 1,412,540 | 4,072,650 | 4,073 |
| | | | | | | To Sc | h H, Line 2A |
| 8 | Discretionary and Other | Expenses Not Recoverable | | | | | |
| 9 | #60004009 | Executive life insurance(COLI) expense (credit) - | | | | | |
| | | not tax deduct | | (442,516) | | | |
| 10 | Provided by HEI | EEI Dues (allowed portion) - not tax deduct | | 47,722 | | | |
| 11 | 70014/ #60004034 | OPEB (Executive life portion only) | | 440,216 | | | |
| | 70016 | HEIRS | | 7,902 | | | |
| 13 | Provided by HEI | HEI charges for non-incentive comp (salaries/benefits - | | | | | |
| | | Executives (labor) | (a) | 524,810 | | | |
| 14 | Provided by HEI | HEI charges for outside services (plan admin, legal fees, | | | | | |
| | | audit fees) - Executives (non-labor) | | 74,279 | | | |
| 15 | 70014/24/ #60004035/36 | Non-qualified pension expense | | 475,342 | | | |
| 16 | #60018015 | Payroll taxes related to incentive compensation | | 173,390 | | | |
| 17 | 70011/70012 | Service awards program | | 63,045 | | | |
| 18 | Various | Community service admin - AUW (labor) | (a) | 90,346 | | | |
| 19 | 50100 | Community service admin - AUW (non-labor) | _ | 99,926 | | | |
| 20 | | | | 1,554,462 | 501,970 | 1,052,492 | 1,052 |
| | | | | | | To Sc | h H, Line 2B |
| 21 | Total Adjustmnent to Op | perating Income | - | 7,039,652 | 1,914,510 | 5,125,142 | |
| | • | | = | | To HECO-WI | P-H-008, Pg 1 | |
| | | | | | | | |
| | | Labor | $\sum (a)$ | 5,272,211 | To HECO-WI | , 0 | |
| | | Non-labor | _ | 1,767,441 | To HECO-WI | P-H-008, Pg 1 | |
| | | Total adjustment to operating income | _ | 7,039,652 | - | | |

$\begin{array}{c} \text{HAWAIIAN ELECTRIC COMPANY, INC.} \\ \text{Income Tax On Items To Be Replaced By Synchronized Interest} \\ 2018 \end{array}$

| | Source | YTD | Rounded (000s) |
|--------------------------------|---------------------|----------------------|----------------------------|
| Total Interest Charges | GL# RONE70 | 52,180,277 | |
| Remove: RBA Interest Income | GL# 41900002 | 776,680 | |
| Less: Int on Customer Deposits | GL# 60016050 | (631,778) | |
| AFUDC-Debt | GL# RONE69 | (4,018,998) | |
| Amort of Inv Inc Differential | within GL# 60001010 | 184,971 | 185 To Sch H, Line 2C |
| Equity in net income of trust | GL# 42107000 | (100,516) | |
| | Tax rate | 48,390,636 25.75% | |
| | | 12,460,589 | (12,461) To Sch H, Line 2D |

HAWAIIAN ELECTRIC COMPANY, INC. Ratemaking Capitalization 2018

| | Simple Average Balance* | Ratios | Cost Rate | Weighted Cost of Debt |
|-----------------------------------|----------------------------|-------------------|----------------|--------------------------|
| Chart Tarra Dalit | 00 060 | 3.68% | 2.540/ | 0.000/ |
| Short-Term Debt | 88,868 | 38.92% | 2.54% 5.03% | 0.09% |
| Long-Term Debt | 939,810 | 38.92% 1.19% | 3.03% 7.16% | 1.96% |
| Hybrid Securities Preferred Stock | 28,758 | 0.88% | | 0.09% |
| | 21,192 | | 5.36% | 0.05% |
| Common Equity | 1,335,921 2,414,549 | 55.33% 100.00% | 9.50%_ | 5.26% 7.45% |
| | 2,414,349 | 100.0076 | | 7.4370 |
| | NARUC/ | YTD | Rounded | Cost |
| | GL Code | Dec 2018 | (000s) | Rate |
| Short-Term Debt: | | | | |
| Interest on Debt Assoc Co | 60016060/61 | 2,108,154 | | |
| Less: Interest on QUIDS | QUIDS (see below) | (2,050,516) | | |
| Int Exp-Commercial Paper | within 60016100 | 2,305,290 | | |
| Int Exp-SCF Loans | | 0 | | |
| Int Inc-Assoc Cos. | 41908000 | (176,391) | | |
| Int Exp-Short Term | within 60016000 | 69,531 | | |
| | _ | 2,256,068 | 2,256 | 2.54% |
| Long-Term Debt: | | | | |
| Amort of Debt Disc & Exp | 60002100 | 1,641,364 | | |
| Less: Hybrid Sec Amort of Iss Exp | see a below | (109,414) | | |
| Interest on Long-Term Debt | 60016000 | 45,646,755 | | |
| Less: Int Exp-Short Term | see above | (69,531) | | |
| Amort Inv Inc Differential | within 60001010 | 184,970 | | |
| | - | 47,294,144 | 47,294 | 5.03% |
| | | | | |
| Hybrid Securities: | (001(000 | 2 050 516 | | |
| Interest on QUIDS | 60016060 | 2,050,516 | | |
| Amort Exp-QUID1 Iss Exp | within 60002100 | 40,416 | 100 414 | |
| Amort Exp-QUID2 Iss Exp | within 60002100 | 37,899 | sum = 109,414 | a |
| Amort Exp-QUID3 Iss Exp | within 60002100 | 31,099 | | |
| Equity in Net Inc of Trust | 42107000 | (100,516) | | |
| | | 2,059,414 | 2,059 | 7.16% |
| Preferred Stock: | | | | |
| Amort of Pfd Stk Iss Exp | 60002000 | 55,086 | | |
| Preferred Stock dividends | 60016500 | 1,079,907 | | |
| Titleria Stock dividends | | 1,134,993 | 1,135 | 5.36% |
| | | 1,137,993 | 1,133 | 3.30/0 |

^{*} Short-Term Debt based on a 12 month average.

HAWAIIAN ELECTRIC COMPANY, INC. Special Medical Needs Program Discount (net of tax) 2018 Amounts in (\$000s)

| Special Medical Needs Program Discount | 151 |
|--|-----------------------|
| Revenue Taxes @ 8.885% | (13) |
| | 138 |
| Income Taxes @ 25.75% | (35) |
| Reduction to operating income | 102 To Sch H, Line 2e |

Source: CIS Special Medical Needs (SMN) report

HAWAIIAN ELECTRIC COMPANY, INC. Performance Incentive Mechanism 2018 Amounts in (\$000s)

| Gross (Reward) / Penalty Amount | GL#25400030 | 532 |
|---------------------------------|-------------|-----------------------|
| Revenue Taxes @ 8.885% | | (47) |
| | | 485 |
| Income Taxes @ 25.75% | | (125) |
| Reduction to operating income | | 360 To Sch H, Line 2f |

Note:

Subsequent to the December 2018 financial close, Hawaiian Electric revised its PIMS Regulatory Liability of \$531,871 to \$1,269,311 as shown at Schedule M (revised 05-20-19). The recorded PIMS Regulatory Liability balance of \$531,871 as of 12/31/18 was used to determine the 2018 Earnings Sharing Calculations at Schedule H.

The Company made adjustments to PIMS Regulatory Asset and Liability balances with the February and March 2019 financial closes.

HAWAIIAN ELECTRIC COMPANY, INC. Final Test Year Refund 2018 Amounts in (\$000s)

| 2017 Test Year Rate Case Final D&O Refund | Note 1 | 48 |
|---|--------|----------------------|
| Revenue Taxes @ 8.885% | | (4)_ |
| | | 44 |
| Income Taxes @ 25.75% | | (11) |
| Reduction to operating income | | 32 To Sch H, Line 2g |

Note 1:

2017 Final Test Year Rate Case Final D&O Refund calculation, filed in Docket No. 2016-0328 HECO Letter to the PUC, Exhibits 4 & 5, filed on July 23, 2018, and approved in Order No. 35661, filed August 30, 2018.

HAWAIIAN ELECTRIC COMPANY, INC. WORKING CASH 2018

(Note 1)

| | | | | | (Note 1) | |
|------|---|----|-------------|-----------|------------------------------|----------------------------|
| | W. I. G. I.E. | | 2010 | | Net Collection | |
| Line | Working Cash Items | | 2018 | | Lag Days | Amount |
| | A | | В | | С | D = B/365xC |
| 1 | Fuel | | 523,706 | | 19.1 | 27,405 |
| 2 | Purchased Power | | 494,450 | B2 | -5.4 | (7,315) |
| 3 | O&M Labor | | 137,959 | B3 | 25.5 | 9,638 |
| 4 | O&M Non-Labor | | 165,521 | B4 | 8.6 | 3,900 |
| 5 | Revenue Taxes | | 160,276 | B5 | -50.9 | (22,351) |
| 6 | Income Taxes | | 35,031 | B6 | -2.6 | (250) |
| 7 | Working Cash | | | | | 11,027 To HECO-WP-H-001 |
| 8 | Fuel Oil | B1 | 523,706 | | GL #90501000, 90 | 0547000, 90547100 |
| 9 | Purchased Power | B2 | 494,450 | | GL #90555000 | |
| 10 | O&M Labor | | | | | |
| 11 | O&M Labor | | 145,473 | | Acct. Dept. O&M | report |
| 12 | Fuel O&M Labor | | (2,242) | | Acct. Dept. O&M | report |
| 13 | O&M Labor Excl Fuel Labor | | 143,231 | | | |
| 14 | Disallowed O&M | | (5,272) | | HECO WP-H-002 | |
| 15 | Total | В3 | 137,959 | | | |
| 16 | O&M Non-Labor | | | | | |
| 17 | O&M Expense | | 1,333,535 | | PUC Monthly Rep | ort |
| 18 | Less: Fuel Oil & PP Expense | | (1,018,156) | | Lines 8 + 9 | |
| 19 | O&M Labor Excl Fuel Labor | | (143,231) | | (see O&M Labor I | Excl Fuel Labor above) |
| 20 | Disallowed O&M Non-Labor | | (1,767) | | HECO WP-H-002 | , |
| 21 | Bad Debt Expense | | (1,388) | | GL #60010000 | |
| 22 | Pension Reg Asset/Liab Amort | | (11,456) | | HECO WP-H-008 | pg. 2 |
| 23 | OPEB Reg Asset/Liab Amort | | 376 | | | 10 |
| 24 | System Develop Amort | | (2,267) | | | |
| 25 | Other Deferred Projects Amort | | (742) | | \downarrow | |
| | | | (, :=) | | GL #60018000/00 | 1/015, 60019100, 60050001, |
| 26 | Payroll Taxes | | 9,985 | | | /245/251, 70000010/20/30 |
| 27 | Interest on Customer Deposits | | 632 | | GL #60016050 | , |
| 28 | Total | B4 | 165,521 | | | |
| 29 | Revenue Taxes | | | | | |
| 30 | Franchise | | 44,708 | | GL #60017000 | |
| 31 | PSC | | 106,518 | | GL #60017000 GL #60017002 | |
| 32 | PUC Fee | | 9,050 | | GL #60017002 GL #60017001 | |
| 33 | Total | B5 | 160,276 | | GL #00017001 | |
| | | = | | | | |
| 34 | Current Income Taxes | | | | | |
| 35 | Income Tax | | 32,067 | | Dec. 2018 PUC M | |
| 36 | Inc Tax on Disallowed Items | | 1,915 | | HECO WP-H-002 | |
| 37 | Reversal of Tax Related to Interest Sync Replacement | | 12,461 | | Sch H, Line 2d | |
| 38 | Tax Eff of AFUDC Equity | | (3,189) | | GL #60020060 | |
| 39 | Income Tax Adjustments | | 3,404 | | HEI worksheet | |
| 40 | Tax Related to Int Synch | | (11,627) | | Sch H, Line 13 - 1 | 3a |
| 41 | Total | B6 | 35,031 | | , | |

Note 1: See Final Decision and Order No. 35545, For Approval of General Rate Case and Revised Schedules/Rules, filed on June 22, 2018 in Docket No. 2016-0328, Exhibit B, Page 2 of 2.

HAWAIIAN ELECTRIC COMPANY, INC. O&M Non-Labor Amortization 2018

| Pension | Regulatory | Asset Amortizat | inn |
|------------|-------------|-----------------|------|
| 1 61121011 | Kegulatoi v | Asset Amortizat | IUII |

| i cusion regulato | ı y Asset Amort | izativii | | | |
|-------------------|-----------------|-------------|-----------------|----------------|----------------|
| | | | (TY17) - Note 1 | | |
| Standard Jou | rnal Entry No. | | O&M % | | |
| PAA202 | PAA219 | • | Portion | Annual Roun | ded |
| Jan 2018 | Feb-Dec 2018 | Total | 57.43% | 2018 00 | Os |
| | | | | | |
| (45,851) | 19,994,484 | 19,948,633 | 11,456,500 | 11.456.500 11. | 456 To Page 1 |
| (10,001) | 12,22 ., | 15,5 .0,055 | 11,100,000 | 11,100,000 | 101 mgc 1 |
| OPEB Regulator | y Asset Amortiz | ation | | | |
| | | | (TY17) - Note 1 | | |
| Standard Jou | rnal Entry No. | | O&M % | | |
| PAA203 | PAA220 | • | Portion | Annual Roun | ded |
| Jan 2018 | Feb-Dec 2018 | Total | 57.43% | | <u>Os</u> |
| | | | | | |
| (159,067) | (495,069) | (654,136) | (375,670) | (375,670) | 376) To Page 1 |
| (,) | (, , , , , , | (,) | (=,-,-,-, | (2,2,0,0) | , |

System Development Amortization

| | | Standard . | Journal Entry No. | | | | |
|----------|-----------|------------|-------------------|------------|-----------|-----------|-----------------|
| PAA109 | PAA133 | PAA143 | PAA163 | PAA195 | PAA177 | | |
| 18607004 | 18606004 | 18606104 | 18607704 | 18670400 | 18605005 | | |
| | HR Suites | HR Suites | | IVR System | | | |
| OMS | Phase 1 | Phase 2 | Budget Replace | Replace | CIS | 2018 | Rounded |
| 300,940 | 356,462 | 127,940 | 145,469 | 116,500 | 1,219,715 | 2,267,026 | 2,267 To Page 1 |

Other Deferred Projects Amortization

| Standard Journal Entry No. | | | | | | | | |
|----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------|---------------|
| | | | | 3 | | | | |
| <i>PAA166</i> | <i>PAA166</i> | <i>PAA166</i> | <i>PAA176</i> | <i>PAA176</i> | <i>PAA176</i> | <i>PAA132</i> | | |
| 18670124 | 18670125 | 18670126 | 18670120 | 18670121 | 18670122 | 18670152 | | |
| EOTP | EOTP | EOTP AFUDC | CIP CT-1 | CIP CT-1 | CIP CT-1 | RO | Annual | Rounded |
| Depreciation | AFUDC Debt | Equity | Depreciation | AFUDC Debt | AFUDC Equity | Pipeline | 2018 | 000s |
| 18,219 | 15,342 | 35,441 | 146,605 | 123,526 | 286,584 | 116,436 | 742,153 | 742 To Page 1 |

NOTE:

¹ See Parties' Stipulated Settlement Letter, filed November 15, 2017, in Docket No. 2016-0328, HECO T-16 Attachment 4, page 1. Approved in Final Decision and Order No. 35545, filed on June 22, 2018.

HAWAIIAN ELECTRIC COMPANY, INC. MONTHLY FINANCIAL REPORT December 2018

TO THE PUBLIC UTILITIES COMMISSION OF THE STATE OF HAWAII OPERATING INCOME BEFORE RATEMAKING ADJUSTMENTS TO BE USED FOR THE EARNINGS SHARING CALCULATION (in thousands)

Page 2a

| Operating income per Monthly Financial Report Less: Interest on Customer Deposits Add: Adjustment to federal income tax to offset the DPAD benefit recognized at MECO *2 Add: Gain on Sale Amortization | 138,084 * ³ (632) 66 66 * ⁴ |
|--|---|
| Operating income before ratemaking adjustments & synchronized interest - earnings sharing calculation | 137,585 |
| Income Tax Adjustments Adjusted Operating income before ratemaking adjustments & synchronized interest - earnings sharing calculation | (3,404) 134,181 To Sch H |

^{*1} Amounts may not add up due to rounding.

Note:

Included to support Operating Income on Schedule H since PUC Page 2a was excluded from the December 2018 Monthly PUC Report submitted on February 27, 2019.

An adjustment made to offset the benefit of the Domestic Production Activities Deduction (DPAD) recognized on a standalone basis at Maui Electric Company, Ltd. (MECO) and excluded the impact from the operating income before ratemaking adjustments & synchronized interest for Hawaiian Electric Company. This adjustment was made to eliminate the impact of the MECO's tax benefit from the Hawaiian Electric Company consolidated net income, and therefore should not have any impact on a standalone basis at Hawaiian Electric Company.

^{*3} Starting October 2018, Operating Income per the Monthly Financial Report includes income tax on AFUDC Equity.

^{*4} Included within Other Income and added back for ratemaking purposes.

Hawaiian Electric Company, Inc. Schofield Generating Station Plant Addition As of December 31, 2018

| Utility Account | (Note 1) PUC Approved Accrual Rate | (Note 2) Balance at 12/31/18 | Depreciation 2019 | Allocation % | (Note 3) Subject to Cap | Depreciation 2019 (at Cap) |
|--------------------|------------------------------------|------------------------------------|-------------------|--------------|-------------------------------|----------------------------|
| | a | b | $c = a \times b$ | d | $e = d \times Cap$ | $f = a \times e$ |
| 343 | 0.03260 | 142,147,612 | 4,634,012 | 98.2% | 139,030,987 | 4,532,410 |
| 352 | 0.01600 | 2,003,490 | 32,056 | 1.4% | 1,959,563 | 31,353 |
| 353 | 0.01860 | 352,190 | 6,551 | 0.2% | 344,468 | 6,407 |
| 397 | 0.06670 | 240,250 | 16,025 | 0.2% | 234,983 | 15,673 |
| | _ | 144,743,542 | 4,688,643 | 100.0% | 141,570,000 | 4,585,844 |
| | = | | | | To Sch L1 | To Sch L1 |

Source: SAP and Powerplan WBS.

Note 1:

Depreciation rates approved in Docket No. 2010-0053, Decision and Order, filed May 12, 2011.

Note 2:

See details at HECO-WP-D2-001.

Note 3:

Decision and Order No. 33178, p. 84-85, Docket No. 2014-0113, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for the Purchase and Installation of Item P0001576, Schofield Generating Station Project, filed 09/29/2015. The Commission approved a cap on the amount of the total costs that may be recovered through any cost recovery mechanism other than base rates at 90% of the \$167 million cap. The \$167 million cap shall further be adjusted downward due to a reduction in the foreign exchange rate.

In the Letter to Commission Re: Docket No. 2014-0113, Schofield Generating Station; Notification of Euro Exchange Rate and Adjusted Project Cap, filed 01/27/2016, the Company locked in the foreign exchange rate at \$1.0928/euro which adjusted the project cap down from \$167 million to \$157.3 million. Revised cap on the amount of total costs allowed to be recovered through any cost recovery mechanism other than base rates is \$141.57 million (\$157.3 million x 90%).

(1,540,061) To Sch L1

| HAWAIIAN ELECTRIC CO., INC. | SCHOFIELD GENERATING STATION - NO BONUS | RER 31 2019 |
|-----------------------------|---|------------------|
| HAWAIIAN ELI | SCHOFIELD GI | DECEMBER 31 2019 |

| | | Source | Tax Depreciation | AFUDC | Tax Can Interest | State ITC | Removal | 2018 Total | Book/Tax Denr | State ITC | 2019 Total |
|-------|--|-------------------|------------------|---------------|------------------|-------------------------|---------------|----------------|---------------------------|-------------------------|---------------------------|
| | FEDERAL DEFERRED TAXES | | (page 2 of 5) | (page 3 of 5) | (page 3 of 5) | (page 3 of 5) | (page 5 of 5) | | <u>.</u> | | |
| 2 - 2 | State Book/Tax Difference Book Depreciation | HECO-WP-L-001 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (12,753,951) 4,585,844 | (412,415) | (19,716,566) 4,173,428 |
| | Subtotal | Line 1 + Line 2 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (8,168,107) | (412,415) | (15,543,137) |
| 4 | Effective Federal Tax Rate | | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% |
| 8 | Federal Def Tax on State Book/Tax Diff | Line 3 * Line 4 | (1,323,584) | (2,309,724) | 1,481,649 | 813,976 | (36,513) | (1,374,197) | (1,612,123) | (81,398) | (3,067,718) |
| 9 1 | Addback State Book/Tax Difference | Line 3 | 6,706,173 | 11,702,627 | (7,507,036) | (4,124,152) | 185,002 | 6,962,615 | 8,168,107 | 412,415 | 15,543,137 |
| ~ ∞ | rederal Book 1ax Difference Book Depreciation | Line 2 | (167,576,66) | (11,/02,627) | 050,/05,/ | 4,124,132 | (102,002) | (57,0,629,675) | (9,303,403) 4,585,844 | (412,415) | (49,193,136) 4,173,428 |
| 6 | Federal State Difference | Line 6 + 7 + 8 | (32,667,058) | | ı | 1 | | (32,667,058) | 3,188,488 | | (29,478,570) |
| 10 | 10 Tax Rate on Federal Only Adjustment | | 21% | 21% | 21% | 21% | 21% | 21% | 21% | 21% | 21% |
| 11 | 11 Federal Deferred Tax Adjustment | Line 9 * Line 10 | (6,860,082) | | | | ı | (6,860,082) | 669,582 | | (6,190,500) |
| . 11 | 12 Total Federal Deferred Taxes | Line 5 + Line 11 | (8,183,666) | (2,309,724) | 1,481,649 | 813,976 | (36,513) | (8,234,279) | (942,541) | (81,398) | (9,258,218) |
| لت | STATE DEFERRED TAXES | | | | | | | | | | |
| 2 4 5 | State Book/Tax Difference Book Denreciation | Line 1 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (12,753,951) 4.585.844 | (412.415) | (19,716,566) 4,173,428 |
| 15 .5 | Subtotal | Line 1 + Line 2 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 To Seb I.1 | (185,002) | (6,962,615) | (8,168,107) | (412,415) To Seb I 1 | (15,543,137) |
| 16 | 16 Effective State Tax Rate | | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% |
| 17 | 17 Total State Deferred Taxes | Line 15 * Line 16 | (403,379) | (703,917) | 451,551 | 248,069 | (11,128) | (418,804) | (491,315) | (24,807) | (934,926) |
| 18 | 18 TOTAL DEFERRED TAXES | Line 12 + Line 17 | (8,587,045) | (3,013,641) | 1,933,200 | 1,062,045 | (47,641) | (8,653,083) | (1,433,856) | (106,205) | (10,193,144) |
| | | | | | | | | To Sch L1 | | | To Sch L1 |

HAWAIIAN ELECTRIC CO., INC. TAX DEPRECIATION SCHOFIELD GENERATION STATION

| Project No. | Description | Book Basis | Less: AFUDC | Add: TCI | Tax Basis | Plant Acct Life Bonus | Life Bo | snu | 2018 | 2019 | Net Book Value |
|------------------|---------------------------------------|-------------|----------------|-------------|-------------|-----------------------|---------|-------|-------------------------|----------------------|-------------------|
| FEDERAL | | | | | | | | | | | |
| P0001576 Schofie | P0001576 Schofield Generation Station | 64,076,545 | (5,275,285) | 3,384,005 | 62,185,266 | Oth Prod | 15 5(| 50% 3 | 32,647,265 | 2,953,800 | 28,475,480 |
| P0001576 Schofie | P0001576 Schofield Generation Station | 64,076,545 | (5,275,285) | 3,384,005 | 62,185,266 | Oth Prod | 15 0 | %0 | 3,109,263 | 5,907,600 | 55,059,682 |
| P0001576 Schofie | P0001576 Schofield Generation Station | 5,625,855 | (510,973) | 327,780 | 5,442,663 | Trans | 20 50 | 20% | 2,823,381 | 196,453 | 2,606,021 |
| P0001576 Schofie | P0001576 Schoffeld Generation Station | 5,625,855 | (510,973) | 327,780 | 5,442,663 | Trans | 20 0 | % | 204,100 | 392,906 | 5,028,849 |
| P0001576 Schofie | Schoffeld Generation Station | 1,082,599 | (65,056) | 41,732 | 1,059,276 | Comm | 20 50 | 20% | 549,499 | 38,235 | 494,865 |
| P0001576 Schofie | P0001576 Schoffeld Generation Station | 1,082,599 | (65,056) | 41,732 | 1,059,276 | Comm | 20 0 | %0 | 39,723 | 76,469 | 966,407 |
| Total | | 141,570,000 | (11,702,627) | 7,507,036 | 137,374,409 | | | (,) | 39,373,231 | 9,565,463 | 92,631,306 |
| Cumulative | ative | | | | | | | | | 48,938,694 | |
| | | | | | | | | | To page 1 of 5 | 1 of 5 | |
| HAWAII | | | | | | | | | | | |
| P0001576 Schofie | P0001576 Schoffeld Generation Station | 128,153,091 | (10,550,569) | 6,768,010 | 124,370,532 | Oth Prod | 15 | 0 | 6,218,527 | 11,815,201 | 110,119,363 |
| P0001576 Schofie | P0001576 Schofield Generation Station | 11,251,710 | (1,021,945) | 655,561 | 10,885,325 | Trans | 20 | 0 | 408,200 | 785,812 | 10,057,698 |
| P0001576 Schofie | P0001576 Schoffeld Generation Station | 2,165,199 | (130,112) | 83,465 | 2,118,551 | Comm | 20 | 0 | 79,446 | 152,938 | 1,932,815 |
| Total | | 141,570,000 | (11,702,627) | 7,507,036 | 137,374,409 | | | | 6,706,173 | 12,753,951 | 122,109,876 |
| Cumulative | ative | | | | | | | | 19,46 To nage 1 of 5 | 19,460,124 1 of 5 | |

Hawaiian Electric Company, Inc. Breakdown of SGS Costs by Major Area Actuals through December 2018

| TOTAL PLANT ADDITIONS: | A | В | C | D | E=SUM(B:D) | F=A+E | | (Note 1) |
|-------------------------------|---|-----------|-----------|-----------------------|--------------------------|---------------|--------------|-------------------|
| Expense Element | Generating Station and Switchyard | 46kV Line | Telecom | Wahiawa Substation | Total Interconnection | Total Project | Allocation % | Subject to Cap |
| Labor | 2,293,428 | 1,712,982 | 305,919 | 741,234 | 2,760,135 | 5,053,564 | 3.5% | 4,942,763 |
| Materials | 32,932,285 | 1,523,772 | 545,040 | 512,566 | 2,581,378 | 35,513,663 | 24.5% | 34,735,016 |
| Vehicles | 2,062 | 117,109 | 187 | 563 | 117,859 | 119,921 | 0.1% | 117,292 |
| Overheads | 12,885,912 | 2,456,221 | 544,975 | 928,736 | 3,929,932 | 16,815,844 | 11.6% | 16,447,152 |
| AFUDC | 10,787,079 | 703,160 | 133,029 | 341,694 | 1,177,883 | 11,964,962 | 8.3% | 11,702,627 |
| Outside Services-Construction | 69,147,360 | 614,746 | 59,095 | 80,179 | 754,019 | 69,901,379 | 48.3% | 68,368,772 |
| Outside Services-Other | 2,550,389 | 1,421,977 | 621,195 | 348,999 | 2,392,171 | 4,942,560 | 3.4% | 4,834,193 |
| Other | 427,354 | - | 4,296 | - | 4,296 | 431,650 | 0.3% | 422,186 |
| _ | 131,025,869 | 8,549,966 | 2,213,736 | 2,953,971 | 13,717,673 | 144,743,542 | 100.0% | 141,570,000 |

| BREAKDOWN SUBJECT TO | A1 | B1 | C1 | D1 | E1=SUM(B1:D1) | F1=A1+E1 | |
|-------------------------------|---|-----------|-----------|-----------------------|--------------------------|---------------|------------------|
| Expense Element | Generating Station and Switchyard | 46kV Line | Telecom | Wahiawa Substation | Total Interconnection | Total Project | State ITC |
| Labor | 2,243,144 | 1,675,424 | 299,212 | 724,982 | 2,699,618 | 4,942,763 | |
| Materials | 32,210,236 | 1,490,363 | 533,090 | 501,328 | 2,524,781 | 34,735,016 | 34,735,016 |
| Vehicles | 2,017 | 114,541 | 183 | 551 | 115,275 | 117,292 | |
| Overheads | 12,603,385 | 2,402,368 | 533,026 | 908,373 | 3,843,767 | 16,447,152 | |
| AFUDC | 10,550,569 | 687,743 | 130,112 | 334,202 | 1,152,058 | 11,702,627 | |
| Outside Services-Construction | 67,631,285 | 601,267 | 57,799 | 78,421 | 737,487 | 68,368,772 | 68,368,772 |
| Outside Services-Other | 2,494,471 | 1,390,800 | 607,576 | 341,347 | 2,339,722 | 4,834,193 | |
| Other | 417,984 | - | 4,202 | - | 4,202 | 422,186 | L |
| _ | 128,153,091 | 8,362,506 | 2,165,199 | 2,889,204 | 13,416,909 | 141,570,000 | (Note 1) |
| Amount subject to bonus | 50% | 50% | 50% | 50% | 50% | 50% | 103,103,789 |
| _ | 64,076,545 | 4,181,253 | 1,082,599 | 1,444,602 | 6,708,455 | 70,785,000 | 4% |
| = | | | | | | | 4,124,152 |
| | | | 5,625,855 | | | | To page 1 of 5 |
| Tie out of TCI: | | | | | | | |
| AFUDC | 10,550,569 | 687,743 | 130,112 | 334,202 | 1,152,058 | 11,702,627 | To page 1 of 5 |
| ratio - 5 year average | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | From page 4 of 5 |
| TCI | 6,768,010 | 441,175 | 83,465 | 214,385 | 739,025 | 7,507,036 | To page 1 of 5 |
| = | | _ | | | | | |

655,561

Source: Ellipse & SAP

Note 1:

 $Allocated\ 12/31/18\ Plant\ Addition\ subject\ to\ the\ cap\ of\ \$141.57M.\ \ See\ further\ discussion\ at\ HECO-WP-L1-001.$

Hawaiian Electric Company, Inc. Annual - TCI Closed to AFUDC Closed Ratio

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | 5 Yr Ave |
|-------|-------------|-------------|-------------|-------------|-------------|----------------|
| TCI | 3,820,695 | 4,825,860 | 4,299,588 | 4,056,549 | 5,041,274 | 22,043,966 |
| AFUDC | 5,511,275 | 7,365,025 | 6,668,924 | 6,540,575 | 8,278,273 | 34,364,072 |
| | | | | | | |
| Ratio | 0.693251 | 0.655240 | 0.644720 | 0.620213 | 0.608977 | 0.641483 |
| | | | | | | To page 3 of 5 |

Hawaiian Electric Company, Inc. MPIR Removal Costs Actuals Through December 31, 2018

| Row Labels | Sum of amount |
|--------------------|----------------|
| Labor | 90,530 |
| Materials | 46 |
| Overheads | 94,426 |
| Grand Total | 185,002 |
| | Ta maga 1 af 5 |

To page 1 of 5

SOURCE: Ellipse & SAP

Schedule L exhibit, with additional supporting workpapers

Excerpt from Docket No. 2017-0213 - Schofield Generating Station Cost Recovery through the Major Project Interim Recovery Adjustment Mechanism Hawaiian Electric's Update of Target Revenues and Updated Responses to the Commission's Information Requests, filed July 18, 2018. Approved in Order No. 35647, issued August 15, 2018. Effective July 1, 2018. Pages 1 through 9.

SCHEDULE B1 PAGE 1 OF 1

\$000\$

\$35,971 0.46429 -\$603 -\$2,143 0.60000

| Docket No. 2016-0328 Amounts (m) | \$ 1,529,709 \$. \$ | \$ (327,609) \$ (466,211) \$ (135,915) | \$ 599,974 | တ မာ မာ | \$ 13,828 \$ (1,229) \$ 12,599 | \$ 6,600 \$ (586) \$ 6,014 | | - | \$ 618,587 | 2019 | \$50,662,296 \$54,950,773 \$54,363,268 \$51,961,329 \$51,961,329 |
|---|---|--|--|--|--|---|---|--|--|---|--|
| Docket No. 2016-0328 Amounts (I) | \$ 1,529,709 \$. | \$ (327,609) \$ (466,211) \$ (135,915) | \$ 599,974 | | \$ 13,828 \$ (1,229) \$ 12,599 | \$ 6,600 \$ (586) \$ 6,014 | | , 59 | \$ 618,587 | 2018 | \$53.817,081 \$55.301,701 \$33.507,798 \$54.085,317 \$51,085,307 \$51,280,25 |
| Docket No. 2016-0328 Amounts (K) | \$ 1,529,709 \$ - \$ | \$ (327,609) \$ (466,211) \$ (135,915) | \$ 599,974 | & & & | \$ 13,828 \$ (1,229) . | 999 | | 69 | \$ 612,574 | 2018 | \$49,434,694 |
| Docket No. 2016-0328 Amounts (i) | 1,529,709 | (327,609) (466,211) (135,915) | 599,974 | | | . | (16) | | 299,960 | Note (8) 2018 | \$28,726,095 \$50,396,658 |
| Docket No. 2016-0328 Amounts (i) | 1,581,445 \$ (5,000) \$ (6,000) \$ | (327,609) \$ (466,211) \$ (139,534) \$ | \$ 160,759 | * * * * * * * * * * * * * * * * * * * | s solo | | (16) \$ 1 \$ (14) \$ | \$ | \$ 770'128 | Note (6), (8) 2018 | \$22,450,132 \$51,603,222 \$20,335,492 |
| Docket No. 2010-0080 Amounts (h) | 1,765,954 \$ \$ \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | 101,131 \$ (8,986) \$ 92,146 \$ | s s s | so so so | (16) \$ | ٠ | 604,302 | _ | \$48,948,443 |
| Docket No. 2010-0080 Amounts (g) | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | 101,131 \$ (8,986) \$ 92,146 \$ | • • • • | | (16) \$ | \$ | 604,302 \$ | 2017 | \$51,184,359 \$52,997,285 \$54,658,879 \$52,453,939 \$53,057,695 \$49,915,326 \$49,915,326 |
| Docket No. 2010-0080 Amounts (f) | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | · · · | - | s s s | | · | φ | 2017 | \$48,009,623 |
| Docket No. 2010-0080 Amounts (e) | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | | | s s s | \$ \$ \$ | \$ | | 2016 | \$50,202,656 \$51,980,790 \$55,581,111 \$51,447,350 \$52,040,061 \$48,957,962 \$48,957,962 \$3557,167,892 |
| | \$000\$ \$000\$ | \$ \$000\$ \$ \$000\$ | \$0008 | \$000s \$000s \$000s | \$0008 \$0008 \$0008 | \$0008 \$0008 \$0008 | \$ \$000\$ \$ \$000\$ | \$ \$000\$ | \$000\$ \$000\$ \$000\$ \$000\$ | Note (4) | 8 8 19% 7.59% 8 10% 8 10% 8 40% 8 10% 8 10% 8 10% 8 10% 8 10% 8 10% 8 100% 9 100.00% 9 100.00% |
| Reference (b) | Note (1), (5), (7), (7a) Note (5) Note (5) | Note (1), (5), (7), (7a) Note (1), (5), (7), (7a) | Sum Lines 14 | Note (2) Lines 6 + 7 | Note (9) Lines 9 + 10 | Schedule L Lines 12 + 13 | Note (2), (9) Lines 15 + 16 | Note (2), (9) | Col (g), lines (5+8+17+18) Col (l), lines (5+8+17+18) Col (l), lines (5+8+17+18) Col (k), lines (5+9+17+18) Col (k), lines (5+9+17+18) (Col (l), lines (5+8+17+18) | | 8.10% 6.10% 7.26% 7.84% 8.44% 8.47% 9.04% 8.26% 8.26% 8.26% |
| Description (a) | Last Rate Case Annual Electric Revenue at Approved Rate Levels Less: Holdback of Interim Revenues Less: Customer Benefit Adjustment | s: Fuel Expense Purchased Power Expense Revenue Taxes on Line 1 to 1b (8.885% statutory rates) | Last Rate Order Target Annual Revenues | Authorized RAM Revenues Less: Revenue Taxes on Line 12 at 8.885% Net RAM Adjustment - Test Year +6 | Authorized RAM Revenues Less: Revenue Taxes on Line 12 at 8.885% Net RAM Adjusiment - Test Year +1 | Authorized MPIR Revenues Less: Revenue Taxes on Line 12 at 8.885% Net MPIR Adjustment | s: EARNINGS SHARING REVENUE CREDITS Less: Revenue Taxes on Line 15 at 8.885% Net Earnings Sharing Revenue Credits | PUC-ORDERED MAJOR OR BASELINE CAPITAL CREDITS: | Total Annual Target Revenues June 1, 2017 Amualized Revenues w/RAM Increase February 16, 2018 Annualized Revenues w/Indirntin Increase April 13, 2018 Annualized Revenues w/RAM Increase June 1, 2018 Annualized Revenues w/RAM Increase | Distribution of Target Revenues by Month: | January February March April April May June July August September October November Total Distributed Targe Revenues |
| Line No. | 1 Last 1a Less 1b Less | 2 Less: 3 4 | 5 Last | 9 / 8 | e 6 ± | 12 13 | 15 Less: 16 17 | 18 | 19 Tota 21 22 23 24 24 25 | | 27 28 33 33 34 34 36 39 10a |

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

Docket No. 2010-0080 amounts derived from Order No. 30576, filed August 9, 2012, effective September 1, 2012, which implemented Decision and Order No. 30505, Exhibit A, page 1, filed June 29, 2012. Transmittal 7.02 filed March 51, 2017 to relect 2017 target revenue effective June 1, 2017.

RBA Tariff Revised July 2, 2011 to relified 2017 test year.

RBA Tariff Revised July 2, 2011 to relified 2017 test year.

RBA Tariff Effective February 16, 2018 to relified 2017 test year.

RBA Tariff Effective February 16, 2018 to relified 2017 test year.

Fet Year 2017 melm Increase provided for in Inferim Decision and Order 35100, issued December 15, 2017 in Docket No. 2016-0328:

For the month of the infail implementation (Feb 2018), adjust the monthly allocation by the number of effective days in the month of the infail implementation (April 2018), adjust the monthly allocation by the number of effective days in the month of the infail implementation (April 2018), adjust the monthly allocation by the number of effective days in the month of the infail implementation (April 2018), adjust the monthly allocation by the number of effective days in the month over the total number of days:

For the month of the infail implementation (April 2018), adjust the monthly allocation by the number of effective days in the month over the total number of days:

SCHEDULE L PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK REVENUE REQUIREMENT AND DETERMINATION OF MAJOR PROJECT INTERIM RECOVERY MPIR PROJECT \$ in thousands

| Line No. | Description | Reference | Recorded at 12/31/2017 | Recorded at In Service Date (June 2018) | Ending Balance as of 6/30/18 | Average Balance | 1 | MPIR |
|----------|--|-------------------------|------------------------|---|------------------------------------|--------------------|--------|-----------------------|
| | (a) | (b) | (c) | (d) | (e) | | | (f) |
| | Return on Investment | | | | | | | |
| 1 2 | Gross Plant in Service (not to exceed PUC approved amount) | HECO-WP-L-001 | = | 141,275 | 141,275 | 70,638 | | |
| 3 | Accum Depreciation Net Cost of Plant in Service | Schedule TBD | | | | | | |
| 3 | Net Cost of Plant in Service | | - | 141,275 | 141,275 | 70,638 | | |
| 4 | Fuel Inventory - Avoided | Note 3 | _ | (1,534) | (1,534) | (767) | | |
| 5 | M&S Inventory | Note 3 | _ | 100 | 100 | 50 | | |
| 6 | Total Additions | 11010 | | (1,434) | (1,434) | (717) | | |
| | | | | (.,, | (1,101) | (, ., , | | |
| 7 | CIAC | Schedule TBD, if needed | - | - | - | - | | |
| 8 | ADIT | HECO-WP-L-002 | - | (8,689) | (8,689) | (4,344) | | |
| 9 | State ITC | HECO-WP-L-002 | - | (4,147) | (4,147) | (2,074) | | |
| 10 | Total Deductions | | - | (12,836) | (12,836) | (6,418) | | |
| 11 | Total Rate Base | | \$ - | \$ 127,005 | \$ 127,005 | 63,502 | | |
| 12 | Average Rate Base | | | | | \$ 63,502 | | |
| 13 | Rate of Return (grossed-up for income taxes, before revenue taxes) | Note 4 | | | | 9.47% | | |
| 14 | Annualized Return on Investment (before revenue taxes) | | | | | | \$ | 6,014 |
| 15 | Depreciation Expense (Note 1) | Schedule E | | | | | | |
| 16 | Operating & Maintenance Expense | Note 2 | | | | _ | | |
| 16a | Prior year reconciliation of O&M to actuals | Note 2 | | | | _ | | |
| 17 | Amortization of State ITC | see line 6 | | | | - | | |
| 18 | Lease Rent Expense | Schedule TBD, if needed | | | | | | |
| 19 | Other Expense | Schedule TBD, if needed | | | | - | | |
| 20 | Total Expenses | | | | - | | \$ | - |
| 21 | Total Major Project Interim Recovery | | | | | | \$ | 6,014 |
| 22 | Revenue Tax Factor (1/(1-8.885%)) | • | | | | - | | 1.0975 |
| 23 | 2019 Annualized Revenue for Major Project Interim Recovery | | | | | | \$ To: | 6,600.0 Sch B & B1 |

Note 1: Depreciation expense is recorded beginning in the year after an asset is placed in service, therefore, depreciation expense is zero in year 1. The revenue requirement for year 2 and thereafter will include depreciation expense at existing, approved depreciation accrual rates at the time of filling.

Note 2: Per Order No. 35556, page 74, Docket No. 2017-0213, For Approval to Recover Costs for Schofield Generating Station through the Major Project Interim Recovery Adjustment Mechanism, filed on June 27, 2018. Total estimated annual O&M expense will be excluded from the MPIR calculation until an acceptable business case study has been reviewed and approved by the Commission.

Note 3: Difference in fuel inventory and difference in materials & supplies inventory derived from the "with Schofield" and "without Schofield" rate bases in the HECO 2017 test year rate cases. See Docket No. 2016-0328 HECO-3201 p. 3 and HECO-3203 p. 3.

Note 4: Transmittal No. 18-01 (Decoupling) - Hawaiian Electric's RBA Rate Adjustment, Schedule D, filed May 29, 2018.

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Hawaiian Electric Company, Inc. MPIR Plant Additions Actuals Through June 30, 2018

| Indicator Code | NI |
|----------------------------|---------------|
| Row Labels | Sum of amount |
| 150: Labor Cost | 4,542,416 |
| 155: Labor True-up | 284,309 |
| 201: Matl-Issues/Purchases | 33,529,637 |
| 205: Matl-Purchasing Card | 63,740 |
| 301: Vehicles | 112,180 |
| 404: Energy Delivery | 1,758,310 |
| 405: Power Supply | 10,752,643 |
| 406: Corp Admin Expense | 929,503 |
| 421: Non-Productive Wages | 610,417 |
| 422: Employee Benefits | 1,348,674 |
| 423: Payroll Taxes | 403,436 |
| 430: AFUDC-Debt | 3,260,337 |
| 431: AFUDC-Equity | 8,704,625 |
| 501: Outside Svcs-General | 1,461,336 |
| 502: Outside Svcs-Legal | 177,774 |
| 503: Outside Svcs-TempHire | 2,916 |
| 505: Outside Svcs-Constr | 70,093,402 |
| 506: Outside Svcs-Engr | 1,596,895 |
| 508: Outside Svcs-Environ | 1,213,832 |
| 520: Mainland Travel | 90,358 |
| 522: Interisland Travel | 1,706 |
| 570: Rents | 9,300 |
| 521: Meals | 13,202 |
| 900: Fin Stmt Items | 314,048 |
| Grand Total | 141,274,996 |

SOURCE: UIPlanner Actual Data

HECO-WP-L-002 PAGE 1 OF 5 Nd 20:18102/81/2

HAWAIIAN ELECTRIC CO., INC. SCHOFIELD GENERATING STATION DECEMBER 31, 2018 (Based on Actuals Through June 30, 2018)

| | | sonice | Tax Depreciation | AFUDC | Tax Cap Interest | State ITC | Removal | Total |
|-------|--|-------------------|---------------------------|----------------------------|--------------------------|--------------------------|----------------------|---------------------------|
| | FEDERAL DEFERRED TAXES | | | | | | | |
| - 0 | State Book/Tax Difference | | (6,714,039) | (11,964,962) | 7,673,560 | 4,147,471 | (185,002) | (7,042,972) |
| 7 K | Subtotal | Line 1 + Line 2 | (6,714,039) | (11,964,962) | 7,673,560 | 4,147,471 | (185,002) | (7,042,972) |
| 4 | Effective Federal Tax Rate | | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% |
| 8 | Federal Def Tax on State Book/Tax Diff | Line 3 * Line 4 | (1,325,136) | (2,361,501) | 1,514,515 | 818,578 | (36,513) | (1,390,057) |
| 9 / 8 | Addback State Book/Tax Difference Federal Book/Tax Difference | Line 3 | 6,714,039 (39,452,276) | 11,964,962 (11,964,962) | (7,673,560) 7,673,560 | (4,147,471) 4,147,471 | 185,002 (185,002) | 7,042,972 (39,781,209) |
| 9 6 | Federal State Difference | Line 6 + 7 + 8 | (32,738,237) | | , | : | ŧ | (32,738,237) |
| 10 | Tax Rate on Federal Only Adjustment | | 21% | 21% | 21% | 21% | 21% | 21% |
| Ξ | Federal Deferred Tax Adjustment | Line 9 * Line 10 | (6,875,030) | 1 | 1 | | | (6,875,030) |
| 12 | Total Federal Deferred Taxes | Line 5 + Line 11 | (8,200,166) | (2,361,501) | 1,514,515 | 818,578 | (36,513) | (8,265,087) |
| | STATE DEFERRED TAXES | | | | | | | |
| 13 | State Book/Tax Difference | Line I | (6,714,039) | (11,964,962) | 7,673,560 | 4,147,471 | (185,002) | (7,042,972) |
| 15 | Subtotal | Line 1 + Line 2 | (6,714,039) | (11,964,962) | 7,673,560 | 4,147,471 | (185,002) | (7,042,972) |
| 16 | Effective State Tax Rate | | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% |
| 17 | Total State Deferred Taxes | Line 15 * Line 16 | (403,852) | (719,697) | 461,568 | 249,472 | (11,128) | (423,637) |
| 18 | TOTAL DEFERRED TAXES | Line 12 + Line 17 | (8,604,018) | (3,081,198) | 1,976,083 | 1,068,050 | (47,641) | (8,688,724) |

HECO-WP-L-002 PAGE 2 OF 5

HAWAIIAN ELECTRIC CO., INC. TAX DEPRECIATION SCHOFIELD GENERATION STATION (Based on Actuals Through June 30, 2018)

| Project No. | Description | Book Basis | Less: AFUDC | Add: TCI | Tax Basis | Plant Acct Life | | (Note 1) Bonus | 2018 | Net Book Value |
|----------------------|---|-------------|------------------------|------------------------|--------------------------|----------------------|----------|-------------------|-------------------------|---------------------------|
| FEDERAL | | | | | | | | | | |
| P0001576 P0001576 | 20001576 Schofield Generation Station P0001576 Schofield Generation Station | 63,995,593 | (5,393,539) | 3,459,071 3,459,071 | 62,061,124 62,061,124 | Oth Prod Oth Prod | 15 | 50% 0% | 32,582,090 3,103,056 | 31,413,503 60,892,537 |
| | | 5,661,768 | (180,733) | 335,052 | 5,816,087 | Trans | 70 | 20% | 3,017,095 | 2,644,673 |
| P0001576 | P0001576 Schofield Generation Station | 5,661,768 | (180,733) | 335,052 | 5,816,087 | Trans | 20 | %0 | 218,103 | 5,443,665 |
| P0001576 | 20001576 Schofield Generation Station | 980,137 | (66,514) | 42,658 | 956,281 | Comm | 20 | 20% | 496,071 | 484,066 |
| P0001576 | Schofield Generation Station | 980,137 | (66,514) | 42,658 | 956,281 | Comm | 20 | %0 | 35,861 | 944,276 |
| | Total | 141,274,996 | (11,281,574) | 7,673,560 | 137,666,982 | | | | 39,452,276 | 101,822,720 |
| HAWAII | | | | | | | | | | |
| P0001576 | P0001576 Schofield Generation Station P0001576 Schofield Generation Station | 127,991,185 | (10,787,079) (361,466) | 6,918,141 670.103 | 124,122,248 | Oth Prod Trans | 15 20 | 0 0 | 6,206,112 436,206 | 121,785,073 10,887,330 |
| P0001576 | Schofield Generation Station | 1,960,274 | (133,029) | 85,316 | 1,912,561 | Comm | 70 | 0 | 71,721 | 1,888,553 |
| | Total | 141,274,996 | (11,281,574) | 7,673,560 | 137,666,982 | | | | 6,714,039 | 134,560,957 |

The Tax Technical Corrections Act of 2018 made changes to the phase down rules of §168(k) as it existed just prior to the enactment of the 2017 Tax pursuant to a written binding contract entered into prior to September 28, 2017 but placed into service in 2018. Based on this statutory revision, the Reform Act. These changes indicated that 50% bonus depreciation (under the old law) would apply to longer production period property that was current best assessment is that one-half of the Schofield project components should meet the written binding contract requirements and will be grandfathered under the old law, which allowed 50% bonus depreciation on public utility property. The Company continues to monitor the tax developments for further guidance.

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Hawaiian Electric Company, Inc. Breakdown of SGS Costs by Major Area Actuals through June 2018

SOURCE: PUC-HECO-IR-7 (Update of CA-IR-19)

| | | A | В | υ | ۵ | E = SUM(B:D) | F = A + E | |
|----|-------------------------------|--------------------|-----------|-----------|------------|-----------------|---------------|-------------|
| | | Oth Prod | Trans | Comm | Trans | | | |
| | | Generating Station | | | Wahiawa | Total | | |
| 2 | Row Expense Element | and Switchyard | 46kV Line | Telecom | Substation | Interconnection | Total Project | State ITC |
| 7 | 150: Labor Cost | 2,036,413 | 1,505,621 | 301,845 | 698,537 | 2,506,003 | 4,542,416 | |
| 7 | 155: Labor True-up | 99,413 | 149,735 | (2,583) | 37,744 | 184,896 | 284,309 | |
| m | 201: Mati-Issues/Purchases | 31,024,176 | 1,466,766 | 543,716 | 494,978 | 2,505,461 | 33,529,637 | 33,529,637 |
| 4 | . 205: Matl-Purchasing Card | 5,329 | 39,500 | 1,323 | 17,588 | 58,411 | 63,740 | 63,740 |
| 2 | 301: Vehicles | 1,213 | 110,407 | , | 260 | 110,967 | 112,180 | |
| 9 | 404: Energy Delivery | 52,075 | 1,108,794 | 238,053 | 359,388 | 1,706,235 | 1,758,310 | |
| 7 | 405: Power Supply | 10,442,252 | 190,953 | 36,356 | 83,082 | 310,392 | 10,752,643 | |
| ∞ | 406: Corp Admin Expense | 414,446 | 310,795 | 63,083 | 141,180 | 515,057 | 929,503 | |
| 6 | 421: Non-Productive Wages | 265,486 | 210,398 | 43,543 | 90,990 | 344,931 | 610,417 | |
| 1 | .0 422: Employee Benefits | 627,481 | 441,079 | 94,973 | 185,141 | 721,193 | 1,348,674 | |
| 1; | 1 423: Payroll Taxes | 181,698 | 133,734 | 25,350 | 62,654 | 221,738 | 403,436 | |
| ij | 2 430: AFUDC-Debt | 2,940,954 | 190,052 | 36,432 | 92,899 | 319,383 | 3,260,337 | |
| ij | .3 431: AFUDC-Equity | 7,846,125 | 513,108 | 96,597 | 248,795 | 858,500 | 8,704,625 | |
| 17 | .4 501: Outside Svcs-General | 453,275 | 775,828 | 169,466 | 62,767 | 1,008,061 | 1,461,336 | |
| 1; | .5 502: Outside Svcs-Legal | 136,675 | 41,099 | • | • | 41,099 | 177,774 | |
| 16 | .6 503: Outside Svcs-TempHire | 2,916 | | | | • | 2,916 | |
| 1, | 7 505: Outside Svcs-Constr | 69,339,679 | 614,746 | 59,095 | 79,883 | 753,723 | 70,093,402 | 70,093,402 |
| 18 | .8 506: Outside Svcs-Engr | 483,431 | 580,122 | 248,729 | 284,614 | 1,113,464 | 1,596,895 | |
| 15 | .9 508: Outside Svcs-Environ | 1,213,832 | | | | • | 1,213,832 | |
| 7 | 20 520: Mainland Travel | 86,254 | 1 | 4,104 | , | 4,104 | 90,358 | |
| 2, | 1 522: Interisland Travel | 1,706 | | | | • | 1,706 | |
| 22 | 2 570: Rents | 9,300 | | | | • | 9,300 | |
| 23 | 3 521: Meals | 13,010 | | 192 | • | 192 | 13,202 | |
| 24 | 4 900: Fin Stmt Items | 314,048 | | | | • | 314,048 | |
| 25 | 5 Grand Total | 127,991,185 | 8,382,735 | 1,960,274 | 2,940,801 | 13,283,810 | 141,274,996 | 103,686,779 |
| | Bonus Depr | 20% | 20% | 20% | 20% | | | 4% |
| | To Tax Depr | 63,995,593 | 4,191,368 | 980,137 | 1.470.400 | | | 4.147.471 |

Note 1: Project was placed into service on June 7, 2018.

Note 2: To arrive at direct costs per categories listed in PUC-HECO-IR-7 Attachment 2:

| 96 | 34 | 22 | 0.0 | e 5 |
|------------------------|---|---------------------------|----------------------------------|--------|
| 141,274,99 | 15,802,98 | 11,964,96 | 113,507,050 | Note |
| 13,283,810 | 3,819,546 | 1,177,883 | 8,286,381 | Note 4 |
| 2,940,801 | 922,436 | 341,694 | 1,676,671 | |
| | 501,358 | ١ | | |
| 8,382,735 | 2,395,752 | 703,160 | 5,283,823 | |
| 127,991,185 | 11,983,438 | 10,787,079 | 105,220,669 | Note 3 |
| Grand Total per Row 25 | Less: Overheads (rows 6, 7, 8, 9, 10, 11) | Less: AFUDC (rows 12, 13) | Total Direct Costs by Major Area | |
| 56 | 27 | 78 | 29 | |
| | | | | |

Note 3: Agrees to 'Total Generating Station' per PUC-HECO-IR-7 Attachment 2 row 5

Note 4: Agrees to 'Total Interconnection' per PUC-HECO-IR-7 Attachment 2 row 10 (minor difference in total for 46kV, Telecom, and Wahiawa Sub due to Project Management costs being allocated in Attachment 1 vs. not allocated in Attachment 2).

Note 5: Agrees to 'Subtotal Direct Costs' per PUC-HECO-IR-7 Attachment 2 row 11.

| ie out of TCI: | | | | | | |
|-----------------------|------------|---------|-----------------|---------|-----------|------------|
| VFUDC | 10,787,079 | 703,160 | 60 133,029 341, | 341,694 | 1,177,883 | 11,964,962 |
| atio - 5 year average | 64.13% | 64.13% | 64.13% | 64.13% | 64.13% | 64.13% |
| ם | 6,918,141 | 450,962 | 85,316 | 219,141 | 755,419 | 7,673,560 |

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Hawaiian Electric Company, Inc. Annual - TCI Closed to AFUDC Closed Ratio

| 5 Yr Ave | 22,038,913 | 34,364,072 | 0.641336 |
|-------------|------------|------------|----------|
| 2017 | 5,036,221 | 8,278,273 | 0.608366 |
| <u>2016</u> | 4,056,549 | 6,540,575 | 0.620213 |
| <u>2015</u> | 4,299,588 | 6,668,924 | 0.644720 |
| 2014 | 4,825,860 | 7,365,025 | 0.655240 |
| 2013 | 3,820,695 | 5,511,275 | 0.693251 |
| | TCI | AFUDC | Ratio |

Hawaiian Electric Company, Inc. MPIR Removal Costs Actuals Through June 30, 2018

| Indicator Code | NR |
|---------------------------|---------------|
| Row Labels | Sum of amount |
| 150: Labor Cost | 83,369 |
| 155: Labor True-up | 7,161 |
| 205: Matl-Purchasing Card | 46 |
| 404: Energy Delivery | 38,302 |
| 406: Corp Admin Expense | 15,495 |
| 421: Non-Productive Wages | 10,390 |
| 422: Employee Benefits | 22,600 |
| 423: Payroll Taxes | 7,639 |
| Grand Total | 185,002 |

SOURCE: UIPlanner Actual Data

Exhibit C

Updated Schedule L

Excerpt from Docket No. 2017-0213 - Schofield Generating Station MPIR Adjustment Mechanism Cost Recovery Request Hawaiian Electric's Business Case Analysis Supporting Net O&M Project Costs and Update of Target Revenues, filed September 6, 2018. Approved in Order No. 35953, issued December 14, 2018. Effective October 1, 2018. Pages 10 through 13.

SCHEDULE L PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK REVENUE REQUIREMENT AND DETERMINATION OF MAJOR PROJECT INTERIM RECOVERY MPIR PROJECT \$ in thousands

| Line No. | Description | Reference | Recorded at 12/31/2017 | Recorded at In Service Date (June 2018) | Ending Balance as of 6/30/18 | Average Balance | MPIR | |
|----------|---|-------------------------|------------------------|---|------------------------------------|---------------------------------------|----------------------------|---|
| | (a) | (b) | (c) | (d) | (e) | | (f) | _ |
| 1 | Return on Investment Gross Plant in Service (not to exceed PUC approved amount) | HECO-WP-L-001 | _ | 141,275 | 141,275 | 70,638 | | |
| 2 | Accum Depreciation | Schedule TBD | - | - | - | 70,030 | | |
| 3 | Net Cost of Plant in Service | | - | 141,275 | 141,275 | 70,638 | | |
| 4 | Fuel Inventory - Avoided | Note 3 | _ | (1,534) | (1,534) | (767) | | |
| 5 | M&S Inventory | Note 3 | - | 100 | 100 | 50 | | |
| 6 | Total Additions | | - | (1,434) | (1,434) | (717) | | |
| 7 | CIAC | Schedule TBD, if needed | - | - | - | - | | |
| 8 | ADIT | HECO-WP-L-002 | - | (8,689) | (8,689) | (4,344) | | |
| 9 | State ITC | HECO-WP-L-002 | | (4,147) | (4,147) | (2,074) | | |
| 10 | Total Deductions | | - | (12,836) | (12,836) | (6,418) | | |
| 11 | Total Rate Base | | \$ - | \$ 127,005 | \$ 127,005 | 63,502 | | |
| 12 | Average Rate Base | | | | | \$ 63,502 | | |
| 13 | Rate of Return (grossed-up for income taxes, before revenue taxes) | Note 4 | | | - | 9.47% | | |
| 14 | Annualized Return on Investment (before revenue taxes) | | | | | | \$ 6,014 | ı |
| 15 | Depreciation Expense (Note 1) | Schedule E | | | | _ | | |
| 16 | Operating & Maintenance Expense | Note 2 | | | | 1,787 | | |
| 16a | Prior year reconciliation of O&M to actuals | Note 2 | | | | - | | |
| 17 | Amortization of State ITC | see line 6 | | | | - | | |
| 18 | Lease Rent Expense | Schedule TBD, if needed | | | | | | |
| 19 | Other Expense | Schedule TBD, if needed | | | - | | | |
| 20 | Total Expenses | | | | | | \$ 1,787 | |
| 21 | Total Major Project Interim Recovery | | | | | | \$ 7,801 | 1 |
| 22 | Revenue Tax Factor (1/(1-8.885%)) | | | | | - | 1.097 | 5 |
| 23 | Annualized Revenue for Major Project Interim Recovery | | | | | <u>!</u> | \$ 8,561.2 To Sch B & B | |
| | | | | | Decensii:-#:- | n to Cabadul - Di | I (Info Only) | |
| | | | | Sum of | Monthly Factors | on to Schedule B1 for Jul-Dec 2018 | 1 (Inio Only) 51.679 | % |

| Reconciliation to Schedule B | 1 (I | nfo Only) |
|---|------|-----------|
| Sum of Monthly Factors for Jul-Dec 2018 | | 51.67% |
| Prorated MPIR for Year 1 | \$ | 4,424 |
| Rev Tax Adj | \$ | (393) |
| Prorated MPIR for Year 1 excl Rev Tax | \$ | 4,031 |

Note 1: Depreciation expense is recorded beginning in the year after an asset is placed in service, therefore, depreciation expense is zero in year 1. The revenue requirement for year 2 and thereafter will include depreciation expense at existing, approved depreciation accrual rates at the time of filing.

Note 2: Total O&M expense is estimated to cost \$1.787 million annually for year 1 (\$2.087 million annually during the interim period thereafter), as referenced within Attachment 1 - SGS Business Case Revenue Requirement Update.

Note 3: Difference in fuel inventory and difference in materials & supplies inventory derived from the "with Schofield" and "without Schofield" rate bases in the HECO 2017 test year rate cases. See Docket No. 2016-0328 HECO-3201 p. 3 and HECO-3203 p. 3.

Note 4: Transmittal No. 18-01 (Decoupling) - Hawaiian Electric's RBA Rate Adjustment, Schedule D, filed May 29, 2018.

Exhibit D

Updated Schedule B1

\$000\$ \$000\$

\$35,971 0.46429 -\$603 -\$2,143 0.60000

| Docket No. 2016-0328 Amounts (m) | \$ 1,529,709 \$ - \$ | \$ (327,609) \$ (466,211) \$ (135,915) | \$ 599,974 | · · · | \$ 13,828 \$ (1,229) \$ 12,599 | \$ 8,561 \$ (761) \$ 7,801 | | - | | \$ 620,374 | 2019 | \$50.808.650 \$47,086,404 \$50,250,313 \$49,505,884 \$52,111,435 \$249,762,666 |
|--|---|---|--|--|--|---|--|--|--|---|---|--|
| Docket No. 2016-0328 Amounts | \$ 1,529,709 \$ - | \$ (327,609) \$ (466,211) \$ (135,915) | \$ 599,974 | | \$ 13,828 \$ (1,229) \$ 12,599 | \$ 8,561 \$ (761) \$ 7,801 | | · \$ | | \$ 620,374 | 2018 | \$53,972,558 \$55,461,456 \$53,662,371 \$54,841,082 \$51,242,912 \$51,366,986 |
| Docket No. 2016-0328 Amounts (k) | ~ | (327,609) (466,211) (135,915) | 599,974 | | 13,828 (1,229) 12,599 | . | | | 612,574 | | 2018 | \$49,434,694 \$49,434,694 |
| Docket No. 2016-0328 Amounts (i) | 1,529,709 \$ | (327,609) \$ (466,211) \$ (135,915) \$ | 599,974 \$ | | | · · · | (16) \$ 1 \$ (14) \$ | | 599,960 | | Note (8) 2018 | \$28,726,095 \$50,396,658 \$79,122,753 |
| Docket No. 2016-0328 Amounts | 1,581,445 \$ (5,000) \$ (6,000) \$ | (327,609) \$ (466,211) \$ (139,534) \$ | 637,091 \$ | . | <i>.</i> | <i>.</i> | (16) \$ | ٠ | 637,077 | | Note (6), (8) 2018 | \$522,450,132 \$51,603,222 \$20,335,492 \$94,388,846 |
| Docket No. D 2010-0080 2 Amounts (h) | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | (8,986) \$ 92,146 \$ | | | (16) \$ 1 \$ (14) \$ | φ. | 604,302 | | Note (6) N 2018 | \$23,503,022 \$23,503,022 \$72,451,465 |
| Docket No. D. 2010-0080 20 Amounts (a) | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | 101,131 \$ (8,986) \$ 92,146 \$ | φ φ | . | (16) \$ 1 \$ (14) \$ | 9 | 604,302 \$ | | 2017 | \$51,184,359 \$52,997,265 \$52,997,265 \$52,463,393 \$53,057,695 \$49,915,326 \$49,915,326 \$49,915,326 |
| Docket No. Dc 2010-0080 20 Amounts A | 1,765,954 \$ | (658,172) \$ (438,707) \$ (156,905) | 512,170 \$ | & & & | | φ φ φ | & & & | | ₩ | | 2017 | \$48,009,623 \$48,009,623 \$48,009,623 \$46,468,574 \$50,024,842 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| Docket No. Dc 2010-0080 20 Amounts A | 5,954 \$ | (658,172) \$ (438,707) \$ (156,905) \$ | 512,170 \$ | <i></i> | <i>ө</i> ө | 69 69 1 1 1 | 69 69 1 1 1 | 9 | | | 2016 | \$5.50.202,656 \$5.35.81,111 \$51.447,330 \$51.460,780 \$51.460,661 \$51.460,661 \$48.957,992 \$48.957,992 |
| Do 20 | \$ \$000\$ \$ \$000\$ | \$0008 \$0008 \$\$0008 | \$ \$000\$ | \$ \$000\$ \$ \$000\$ | \$ \$000\$ \$ \$000\$ | \$ \$000\$ \$ \$000\$ | \$ \$000\$ \$ \$000\$ | \$ \$000\$ | \$000\$ \$000\$ \$000\$ | \$000\$ | Note (4) | 8.19% 7.59% 8.10% 8.07% 8.07% 8.70% 8.70% 8.807% 8.807% 8.84% 8.84% 8.28% 8.28% 8.28% 8.28% 8.28% 8.28% 8.28% 8.38% |
| Reference (b) | Note (1), (5), (7), (7a) Note (5) Note (5) | Note (1), (5), (7), (7a) Note (1), (5), (7), (7a) | Sum Lines 14 | Note (2) Lines 6 + 7 | Note (9) Lines 9 + 10 | Schedule L Lines 12 + 13 | Note (2), (9) Lines 15 + 16 | Note (2), (9) | Col (g), lines (5+8+17+18) Col (l), lines (5+8+17+18) Col (l), lines (5+8+17+18) Col (k), lines (5+9+17+18) | Col (I), lines (5+11+14+17+18) | Note (3) | 8.10% 7.26% 8.10% 7.84% 8.44% 8.77% 9.04% 8.68% 8.26% 8.26% |
| Description (a) | Last Rate Case Annual Electric Revenue at Approved Rate Levels Less: Holdback of Interim Revenues Less: Customer Benefit Adjustment | Less: Fuel Expense Purchased Power Expense Revenue Taxes on Line 1 to 1b (8.885% statutory rates) | Last Rate Order Target Annual Revenues | Authorized RAM Revenues Less: Revenue Taxes on Line 12 at 8.885% Net RAM Adjustment - Test Year +6 | Authorized RAM Revenues Less: Revenue Taxes on Line 12 at 8.885% Net RAM Adjustment - Test Year +1 | Authorized MPIR Revenues Less: Revenue Taxes on Line 12 at 8.885% Net MPIR Adjustment | Less: EARNINGS SHARING REVENUE CREDITS Less: Revenue Taxes on Line 15 at 8.885% Net Earnings Sharing Revenue Credits | PUC-ORDERED MAJOR OR BASELINE CAPITAL CREDITS: | Total Annual Target Revenues June 1, 2017 Annualized Revenues w.RAM Increase February 16, 2018 Annualized Revenues winterim Increase April 13, 2018 Annualized Revenues w.Znd Interim Increase June 1, 2018 Annualized Revenues w.RAM Increase | June 1, 2018 Annualized Revenues w/RAM Increase & MPIR eff 7/1/18 | Distribution of Target Revenues by Month: | January February March April May Juny August September Cotober November December Total Distributed Target Revenues |
| Line No. | 1 | 2 F 4 | 5 Las | 9 2 8 | o 11 | 5 6 4 | 15 Les 16 17 | 18 | 19 Tot 22 23 24 | 25 | | 27 28 20 30 30 30 30 30 30 30 30 30 30 30 30 30 |

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

ATTACHMENT 1

Schedule B1, Schedule L and Supporting Workpapers

HAWAIIAN ELECTRIC COMPANY, INC.

Excerpt from Transmittal No. 19-01 - Notice Transmittal to Update Target Revenue for Schofield Generating Station through the Major Project Interim Recovery Adjustment Mechanism, filed February 7, 2019 and effective January 1, 2019. Pages 14 through 22.

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SCHEDULE B1 (REVISED 02/07/19) PAGE 1 OF 1

\$000\$ \$000\$

\$35,971 0.46429 -\$603 -\$2,143 0.60000

| Last Rate Case Ann | | | | | | | Silbolic | SIIID | AIIIOUIIIS | 1 | *** | | ŀ | | | Singilia | | 2 | SIIDOILL |
|--|---|---|---|--|----------------------------|--|----------------------------|--|--|--------------------------|--|---------------------|-------------------------------|--|----------------------|--|------------------------------|--|--|
| ast Rate Case Ann | (a) | (q) | | (e) | | € | (a) | - | Ē) | | Ξ | - | 9 | € | | € | E) | | Ē |
| Less: Holdback of Interim Revenues Less: Customer Benefit Adjustment | Last Rate Case Annual Electric Revenue at Approved Rate Levels Less: Holdback of Interim Revenues Less: Customer Benefit Adjustment | Note (1), (5), (7), (7a) Note (5) Note (5) | \$000\$ \$000\$ | \$ 1,765,954 | | \$ 1,765,954 | \$ 1,765,954 | | \$ 1,765,954 | \$ \$ \$ | 1,581,445 (5,000) (6,000) | \$ \$ \$ | 1,529,709 | \$ 1,529,709 \$ - \$ - | \$ \$ \$ 60 | 1,529,709 | \$ 1,529,709 \$ - \$ - | \$ 602, | 1,529,709 |
| Less: Fuel Expense Purchased Po Revenue Taxe | Fuel Expense Purchased Power Expense Revenue Taxes on Line 1 to 1b (8.885% statutory rates) | Note (1), (5), (7), (7a) Note (1), (5), (7), (7a) | \$000\$ \$000\$ | \$ (658,172) \$ (438,707) \$ (156,905) | 72) \$ 07) \$ 05) \$ | (658,172) (438,707) (156,905) | \$ (65 \$ (43 \$ (15 | (658,172) \$ (438,707) \$ (156,905) \$ | \$ (658,172) \$ (438,707) \$ (156,905) | (2) (2) (5) (5) | (327,609) (466,211) (139,534) | \$ \$ \$ | (327,609) (466,211) (135,915) | \$ (327,609) \$ (466,211) \$ (135,915) | 09) \$ 11) \$ | (327,609) (466,211) (135,915) | 6 6 6 6 | (327,609) \$ (466,211) \$ (135,915) \$ | (327,609) (466,211) (135,915) |
| ast Rate Order Tar | Last Rate Order Target Annual Revenues | Sum Lines 14 | \$000\$ | \$ 512,170 | \$ 02 | 512,170 | \$ 51 | 512,170 \$ | \$ 512,170 | \$ 0. | 637,091 | € | 599,974 | \$ 599,974 | 74 \$ | 599,974 | \$ 296 | 599,974 \$ | 599,974 |
| Authorized R Less: Revent Net RAM Adj | Authorized RAM Revenues Less: Revenue Taxes on Line 6 at 8.885% Net RAM Adjustment - Test Year +6 | Note (2) Lines 6 + 7 | \$000\$ \$000\$ | · · · · · · · · · · · · · · · · · · · | ↔ ↔ | | 8 8 8 | (8,986) (92,146 | \$ 101,131 \$ (8,986) \$ 92,146 | 31 86) 8 8 | | ↔ ↔ | | · · · · · · · · · · · · · · · · · · · | မ မ | | ω ω | φ φ φ | |
| Authorized R Less: Revent Net RAM Adj | Authorized RAM Revenues Less: Revenue Taxes on Line 9 at 8.885% Net RAM Adjustment - Test Year +1 | Note (9) Lines 9 + 10 | \$000\$ \$000\$ | φ φ φ | မ မ | | & & & | | 9 9 9 | မ မ မ | | • • • | | \$ 13,828 \$ (1,229) \$ 12,599 | 28 29 99 \$ | 13,828 (1,229) 12,599 | • • • | 13,828 \$ (1,229) \$ 12,599 \$ | 13,828 (1,229) 12,599 |
| Authorized MPIR Reve Less: Revenue Taxes Net MPIR Adjustment | Authorized MPIR Revenues Less: Revenue Taxes on Line 12 at 8.885% Net MPIR Adjustment | Schedule L Lines 12 + 13 | \$000\$ \$000\$ | φ φ φ | ∞ ∞ | | \$ \$ \$ | | · · · · · · · · · · · · · · · · · · · | မှ မှ | | & & & | | φ φ φ | မ မ မ | 6,600 (586) 6,014 | & & & | 8,561 \$ (761) \$ 7,800 | 19,811 (1,760) 18,051 |
| Less: EARNINGS S Less: Revent Net Earnings | EARNINGS SHARING REVENUE CREDITS Less: Revenue Taxes on Line 15 at 8.885% Net Earnings Sharing Revenue Credits | Note (2), (9) Lines 15 + 16 | \$000\$ \$000\$ | φ φ φ | \$ \$ \$ | | \$ \$ \$ | (16) \$ | 5 8 8 | (16) \$ (14) \$ | (16) | \$ \$ \$ | (16) 8 | 9 9 9 | မ မ မ | | өө | φ φ φ | |
| PUC-ORDER | PUC-ORDERED MAJOR OR BASELINE CAPITAL CREDITS: | Note (2), (9) | \$000\$ | € | ₩. | | ₩. | * | · \$ | ↔ | | €9 | | \$ | ₩. | , | € | φ. | ' |
| Total Annual Target Revenues June 1, 2017 Annualized February 16, 2018 Annualized April 13, 2018 Annualized June 1, 2018 Annualized June 1, 2018 Annualized June 1, 2018 Annualized June 1, 2018 Annualized | Innual Target Revenues June 1, 2017 Amualizad Revenues w/RAM Increase Petubary 16, 2018 Amualizad Revenues w/RAM Increase April 13, 2018 Amualizad Revenues w/RAM Increase June 1, 2018 Amualizad Revenues w/RAM Increase Ment, 2018 Amualizad Revenues w/RAM Increase Ment, 2018 Amualizad Revenues w/RAM Increase & Mel Ref 71/18 Mel 2, 2018 Amualizad Revenues w/RAM Increase & Mel Ref 71/18 | Col (g), lines (5+8+17+18) Col (l), lines (5+8+17+18) Col (k), lines (5+8+17+18) Col (k), lines (5+9+17+18) Col (l), lines (5+11+14+17+18) Col (l), lines (c) (l), lines (c) (l), lines (c) (l), lines (c) (l), lines | \$000\$ \$000\$ \$000\$ \$000\$ | | | | 9 | 604,302 \$ | \$ 604,302 | \$ | 637,077 | ₩ | 299,960 | \$ 612,574 | 4 ⁷ | 618,587 | \$ 620 | 620,374 | |
| June 1, 2018 Annua MPIR eff 1/1/19 | June 1, 2018 Annualized Revenues w/RAM Increase & MPIR eff 1/1/19 | Col (m), lines (5+11+14+17+18) | \$000\$ | | | | | | | | | | | | | | | 63 | 630,624 |
| istribution of Targe | Distribution of Target Revenues by Month: | Note (3) | Note (4) | 2016 | | 2017 | 2017 | 17 | Note (6) 2018 | | Note (6), (8) 2018 | ў % | Note (8) 2018 | 2018 | _ | Note (10) 2018 | Note (10a) 2018 | 0a) | Note (10b) 2019 |
| January February March April May | | 8.10% 7.26% 8.10% 7.84% 8.44% | 8.19% 7.59% 8.10% 7.98% 8.40% | | ļ | \$48,009,623 \$43,030,848 \$48,009,623 \$46,468,574 \$50,024,842 | l | | \$48,948,443 \$23,503,022 | l | \$22,450,132 \$51,603,222 \$20,335,492 | | \$28,726,095 \$50,396,658 | | | | | | \$51,648,125 \$47,864,379 \$51,080,563 \$50,323,814 \$52,972,435 |
| June July August September October November | | 8.47% 9.04% 9.04% 8.68% 8.78% 8.26% | 8.07% 8.70% 8.65% 8.85% 8.26% | \$50,202,656 \$51,980,790 \$53,581,111 \$51,447,350 \$52,040,061 \$48,957,962 | | | | \$51,184,359 \$52,997,265 \$54,628,879 \$52,453,393 \$53,057,695 \$49,915,326 | | | | | | \$49,434,694 | | \$53,817,090 \$55,301,700 \$53,507,797 | \$54,841,062 \$51,242,893 | | |
| December Total Distributed Target Revenues | det Revenues | 8.26% | 100.00% | \$48,957,962 | | \$235,543,510 | \$364.1 | \$49,915,326 \$364,152,243 | \$72.451.465 | ļ | \$94,388,846 | \$79. | \$79.122.753 | \$49,434,694 | U | \$162,626,587 | \$51,366,968 | | \$253,889,316 |

Docket No.

HAWAIIAN ELECTRIC COMPANY, INC, DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

Docket No. 2010-0080 amounts derived from Order No. 30576, filed August 9, 2012, effective September 1, 2012, which implemented Decision and Order No. 30505, Exhibit A, page 1, filed June 29, 2012. Transmitted 17-20 filed March 31, 2017 establishing 2017 target revenue effective June 1, 2017.

RBA Tariff Revised July 26, 2011 to reflect 2011 test) year.

RBA Tariff Elecuye February 18, 2018 to reflect 2017 test year.

RBA Tariff Elecuye February 18, 2018 to reflect 2017 test year.

RBA Tariff Elecuye February 18, 2018 to reflect 2017 test year.

Test Year 2017 Interim Increase provided for in Interim Decision and Order 3510.0 issued December 15, 2017 in Docket No. 2016-0328.

For the month of the Interim Increase provided for in Interim Decision and Order 3510.0 issued December 15, 2018, in accordance with Order No. 35335, issued March 2018 decision and Order 3510.0 issued December 15, 2018, in accordance with Order No. 35335, issued March 2018 decision and Order 3510.0 issued December 16, 2018, in accordance with Order No. 35335, issued August 17, 2018 approved in Order No. 35457, standed August 17, 2018 approved in Order No. 35457, standed August 17, 2018 approved in Order No. 35457, standed August 15, 2018 in Docket No. 2017-0213.

MPIR Revenues effective Calcuber 1, 2018 approved in Order No. 12, 2018, approved in Order No. 35545, issued December 14, 2018 in Docket No. 2017-0213.

MPIR Revenues effective Lanuary 1, 2019 filed in Transmittal 19-01 on February 7, 2019. 100 100 100

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SCHEDULE L (REVISED 02/07/19) PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. DECOUPLING CALCULATION WORKBOOK REVENUE REQUIREMENT AND DETERMINATION OF MAJOR PROJECT INTERIM RECOVERY MPIR PROJECT \$ in thousands

| | | | | | | | Ending | | | |
|----------|--|--------------------|------|----------|----------|---------|---------------|-------------------|------|--------------|
| | | | Reco | rded at | 2019 | | Balance | Average | | |
| Line No. | Description | Reference | 12/3 | 1/2018 | Activity | a | s of 12/31/19 | Balance | | MPIR |
| | (a) | (b) | | (c) | (d) | | (e) | (f) = ((c)+(e))/2 | | (g) |
| | Return on Investment - Schofield Generating Station | () | | ` ' | () | | ` ' | () (() ()) | | (3) |
| 1 | Gross Plant in Service (not to exceed PUC approved amount) | HECO-WP-L-001 | | 141,570 | | _ | 141,570 | 141,570 | | |
| 2 | Accum Depreciation | HECO-WP-L-001 | | - | (4 | 586) | (4.586) | (2,293) | | |
| 3 | Net Cost of Plant in Service | | - | 141,570 | | 586) | 136,984 | 139,277 | | |
| _ | | | | , | (- , | , | , | , | | |
| 4 | Fuel Inventory - Avoided | Note 3 | | (1,534) | | _ | (1,534) | (1,534) |) | |
| 5 | M&S Inventory | Note 3 | | 100 | | _ | 100 | 100 | | |
| 6 | Total Additions | 11010 0 | - | (1,434) | | | (1,434) | (1,434) | | |
| Ū | Total / taditions | | | (1,404) | | | (1,404) | (1,404) | , | |
| 7 | CIAC | Not Applicable | | _ | | _ | _ | _ | | |
| 8 | ADIT | HECO-WP-L-002 | | (8,653) | (1 | 540) | (10,193) | (9,423) | ١ | |
| 9 | State ITC | HECO-WP-L-002 | | (4,124) | | 412 | (3,712) | (3,918) | | |
| 10 | Total Deductions | 11200 111 2 002 | | (12,777) | | 128) | (13,905) | (13,341) | | |
| 10 | Total Deductions | | | (12,111) | (1, | 120) | (13,303) | (10,041) | , | |
| 11 | Total Rate Base | | \$ | 127,359 | ¢ (5 | 713) \$ | 121,646 | 124,502 | | |
| | Total Nate Base | | Ψ | 121,000 | Ψ (5, | /10) ψ | 121,040 | 124,502 | | |
| 12 | Average Rate Base | | | | | | | \$ 124,502 | | |
| | /// stage / tate Base | | | | | | | | | |
| 13 | Rate of Return (grossed-up for income taxes, before revenue taxes) | Note 4 | | | | | | 9.47% | | |
| | (9 , | | | | | | | | - | |
| 14 | Annualized Return on Investment (before revenue taxes) | | | | | | | | \$ | 11,790 |
| | , | | | | | | | | | , |
| 15 | Depreciation Expense (Note 1) | HECO-WP-L-001 | | | | | | 4,586 | | |
| 16 | Operating & Maintenance Expense | Note 2 | | | | | | 2,087 | | |
| 16a | Prior year reconciliation of O&M to actuals | Note 2 | | | | | | - | | |
| 17 | Amortization of State ITC | see line 6 | | | | | | (412) |) | |
| 18 | Lease Rent Expense | Not Applicable | | | | | | `- ' | , | |
| 19 | Other Expense | Not Applicable | | | | | | _ | | |
| 20 | Total Expenses | . tot / tppilodbio | | | | | | | - \$ | 6,260 |
| | · · · · · · · · · · · · · · · · · · · | | | | | | | | * | -, |
| 21 | Total Major Project Interim Recovery | | | | | | | | \$ | 18,051 |
| | , , | | | | | | | | | ,,,, |
| 22 | Revenue Tax Factor (1/(1-8.885%)) | | | | | | | | | 1.0975 |
| | , | | | | | | | | | |
| 23 | Annualized Revenue for Major Project Interim Recovery | | | | | | | | \$ | 19,810.8 |
| | | | | | | | | | Т | o Sch B & B1 |

| | | Reconciliation | on to | Schedule B | 1 (Ir | fo Only) |
|---------------------------------------|-----|----------------|-------|------------|-------|----------|
| | Jul | - Sep 2018 | Oct | - Dec 2018 | | 2019 |
| Annualized Revenue for MPIR | \$ | 6,600 | \$ | 8,561 | \$ | 19,811 |
| Rev Tax Adj | \$ | (586) | \$ | (761) | \$ | (1,760) |
| Prorated MPIR for Year 1 excl Rev Tax | \$ | 6,014 | \$ | 7,800 | \$ | 18,051 |
| Incremental | \$ | 6,014 | \$ | 1,787 | \$ | 10,250 |
| | | Note 5 | | Note 6 | | |

Note 1: Depreciation expense is recorded beginning in the year after an asset is placed in service, therefore, depreciation expense is zero in year 1. The revenue requirement for year 2 and thereafter will include depreciation expense at existing, approved depreciation accrual rates at the time of filing.

Note 2: Total O&M expense is estimated to cost \$1.787 million annually for year 1 (\$2.087 million annually during the interim period thereafter), as referenced within Attachment 1 - SGS Business Case Revenue Requirement Update and approved in Order No. 35953, filed December 14, 2018.

- Note 3: Decision and Order No. 35556 dated June 27, 2018 in Docket No. 2017-0213.
- Note 4: Transmittal No. 18-01 (Decoupling) Hawaiian Electric's RBA Rate Adjustment, Schedule D, filed May 29, 2018.
- Note 5: MPIR Revenues effective July 1, 2018 approved in Order No. 35647, issued August 15, 2018 in Docket No. 2017-0213.
- Note 6: MPIR Revenues effective October 1, 2018 filed December 21, 2018 in Docket No. 2017-0213.

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4,585,844

Schofield Generating Station Plant Addition As of December 31, 2018

| | (Note 1) | | | | (Note 2) | |
|--------------------|---------------------------|------------------------|----------------------|--------------|----------------|-------------------------------|
| Utility Account | PUC Approved Accrual Rate | Balance at 12/31/18 | Depreciation 2019 | Allocation % | Subject to Cap | Depreciation 2019 (at Cap) |
| Account | a | b | c = a x b | d | e = d x Cap | f = a x e |
| 343 | 0.03260 | 142,147,612 | 4,634,012 | 98.2% | 139,030,987 | 4,532,410 |
| 352 | 0.01600 | 2,003,490 | 32,056 | 1.4% | 1,959,563 | 31,353 |
| 353 | 0.01860 | 352,190 | 6,551 | 0.2% | 344,468 | 6,407 |
| 397 | 0.06670 | 240.250 | 16.025 | 0.2% | 234.983 | 15.673 |

4,688,643

100.0%

141,570,000

Source: SAP and Powerplan WBS.

Note 1:

Depreciation rates approved in Docket No. 2010-0053, Decision and Order, filed May 12, 2011.

144,743,542

Note 2:

Decision and Order No. 33178, p. 84-85, Docket No. 2014-0113, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for the Purchase and Installation of Item P0001576, Schofield Generating Station Project, filed 09/29/2015. The Commission approved a cap on the amount of the total costs that may be recovered through any cost recovery mechanism other than base rates at 90% of the \$167 million cap. The \$167 million cap shall further be adjusted downward due to a reduction in the foreign exchange rate.

In the Letter to Commission Re: Docket No. 2014-0113, Schofield Generating Station; Notification of Euro Exchange Rate and Adjusted Project Cap, filed 01/27/2016, the Company locked in the foreign exchange rate at \$1.0928/euro which adjusted the project cap down from \$167 million to \$157.3 million. Revised cap on the amount of total costs allowed to be recovered through any cost recovery mechanism other than base rates is \$141.57 million (\$157.3 million x 90%).

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| HAWAIIAN ELECTRIC CO., INC. SCHOFIELD GENERATING STATION - WITH BONUS DECEMBER 31, 2019 | VITH BONUS | | | | | | | 2019 Add | ppv | |
|---|-------------------|---------------------------|-------------------------|--------------------------|--------------------------|----------------------|---------------------------|---------------------------------------|--------------------|---|
| FEDERAL DEFERRED TAXES | source | Tax Depreciation | AFUDC | Tax Cap Interest | State ITC | Removal | 2018 Total | Book/Tax Depr | State ITC Amort | 2019 Total |
| 1 State Book/Tax Difference | HECO.WP.I001 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (12,753,951) | (412 415) | (19,716,566) |
| 2 Door Depocation 3 Subtotal | Line 1 + Line 2 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (8,168,107) | (412,415) | (15,543,137) |
| 4 Effective Federal Tax Rate | | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% | 19.7368% |
| 5 Federal Def Tax on State Book/Tax Diff | Line 3 * Line 4 | (1,323,584) | (2,309,724) | 1,481,649 | 813,976 | (36,513) | (1,374,197) | (1,612,123) | (81,398) | (3,067,718) |
| 6 Addback State Book/Tax Difference 7 Federal Book/Tax Difference 8 Rook Demeciation | Line 3 | 6,706,173 (39,373,231) | 11,702,627 (11,702,627) | (7,507,036) 7,507,036 | (4,124,152) 4,124,152 | 185,002 (185,002) | 6,962,615 (39,629,673) | 8,168,107 (9,565,463) 4,585,844 | 412,415 | 15,543,137 (49,195,136) 4 173 428 |
| | Line 6 + 7 + 8 | (32,667,058) | | 1 | | ı | (32,667,058) | 3,188,488 | | (29,478,570) |
| 10 Tax Rate on Federal Only Adjustment | | 21% | 21% | 21% | 21% | 21% | 21% | 21% | 21% | 21% |
| 11 Federal Deferred Tax Adjustment | Line 9 * Line 10 | (6,860,082) | | | | | (6,860,082) | 669,582 | | (6,190,500) |
| 12 Total Federal Deferred Taxes | Line 5 + Line 11 | (8,183,666) | (2,309,724) | 1,481,649 | 813,976 | (36,513) | (8,234,279) | (942,541) | (81,398) | (9,258,218) |
| STATE DEFERRED TAXES | П | | | | | | | | | |
| 13 State Book/Tax Difference | Line 1 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (12,753,951) | - (212, 215) | (19,716,566) |
| | Line 1 + Line 2 | (6,706,173) | (11,702,627) | 7,507,036 | 4,124,152 | (185,002) | (6,962,615) | (8,168,107) | (412,415) | (15,543,137) |
| 16 Effective State Tax Rate | | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% | 6.0150376% |
| 17 Total State Deferred Taxes | Line 15 * Line 16 | (403,379) | (703,917) | 451,551 | 248,069 | (11,128) | (418,804) | (491,315) | (24,807) | (934,926) |
| 18 TOTAL DEFERRED TAXES | Line 12 + Line 17 | (8,587,045) | (3,013,641) | 1,933,200 | 1,062,045 | (47,641) | (8,653,083) | (1,433,856) | (106,205) | (10,193,144) |

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| CO., INC. | | TON STATION |
|-----------------------------|------------------|------------------------------|
| HAWAIIAN ELECTRIC CO., INC. | TAX DEPRECIATION | SCHOFIELD GENERATION STATION |

| Project No. | Description | Book Basis | Less: AFUDC | Add: TCI | Tax Basis | Plant Acct Life Bonus | ife Bon | sr 2018 | 2019 | Net Book Value |
|--|--|--|--|--|--|--|---|--|--|--|
| FEDERAL | _ | | | | | | | | | |
| P0001576 P0001576 P0001576 P0001576 P0001576 | Schofield Generation Station Schofield Generation Station Schofield Generation Station Schofield Generation Station Schofield Generation Station | 64,076,545 64,076,545 5,625,855 5,625,855 1,082,599 1,082,599 | (5,275,285) (5,275,285) (510,973) (510,973) (65,056) (65,056) | 3,384,005 3,384,005 327,780 327,780 41,732 | 62,185,266 62,185,266 5,442,663 5,442,663 1,059,276 1,059,276 | Oth Prod Oth Prod Trans Trans Comm | 15 50% 15 0% 20 50% 20 0% 20 50% 20 0% | 6 32,647,265 3,109,263 6 2,823,381 204,100 6 549,499 | 2,953,800 5,907,600 196,453 392,906 38,235 76,469 | 28,475,480 55,059,682 2,606,021 5,028,849 494,865 966,407 |
| | Total Cumulative | 141,570,000 | (11,702,627) | 7,507,036 | 137,374,409 | | | 39,373,231 | 9,565,463 | 92,631,306 |
| HAWAII | _ | | | | | | | | | |
| P0001576 P0001576 P0001576 | Schofield Generation Station Schofield Generation Station Schofield Generation Station | 128,153,091 11,251,710 2,165,199 | (10,550,569) (1,021,945) (130,112) | 6,768,010 655,561 83,465 | 124,370,532 10,885,325 2,118,551 | Oth Prod Trans Comm | 15 0 20 0 20 0 | 6,218,527 408,200 79,446 | 11,815,201 785,812 152,938 | 110,119,363 10,057,698 1,932,815 |
| | Total Cumulative | 141,570,000 | (11,702,627) | 7,507,036 | 137,374,409 | | | 6,706,173 | 12,753,951 19,460,124 | 122,109,876 |

Hawaiian Electric Company, Inc. Breakdown of SGS Costs by Major Area Actuals through December 2018

| TOTAL PLANT ADDITONS: | A | В | С | D | E=SUM(B:D) | F=A+E | | (Note 1) |
|-------------------------------|-------------|-----------|-----------|------------|-----------------|---------------|--------------|-------------|
| | Generating | | | Making | T 1 | | | Cultination |
| | Station and | | | Wahiawa | Total | | | Subject to |
| Expense Element | Switchyard | 46kV Line | Telecom | Substation | Interconnection | Total Project | Allocation % | Сар |
| Labor | 2,293,428 | 1,712,982 | 305,919 | 741,234 | 2,760,135 | 5,053,564 | 3.5% | 4,942,763 |
| Materials | 32,932,285 | 1,523,772 | 545,040 | 512,566 | 2,581,378 | 35,513,663 | 24.5% | 34,735,016 |
| Vehicles | 2,062 | 117,109 | 187 | 563 | 117,859 | 119,921 | 0.1% | 117,292 |
| Overheads | 12,885,912 | 2,456,221 | 544,975 | 928,736 | 3,929,932 | 16,815,844 | 11.6% | 16,447,152 |
| AFUDC | 10,787,079 | 703,160 | 133,029 | 341,694 | 1,177,883 | 11,964,962 | 8.3% | 11,702,627 |
| Outside Services-Construction | 69,147,360 | 614,746 | 59,095 | 80,179 | 754,019 | 69,901,379 | 48.3% | 68,368,772 |
| Outside Services-Other | 2,550,389 | 1,421,977 | 621,195 | 348,999 | 2,392,171 | 4,942,560 | 3.4% | 4,834,193 |
| Other | 427,354 | - | 4,296 | - | 4,296 | 431,650 | 0.3% | 422,186 |
| | 131,025,869 | 8,549,966 | 2,213,736 | 2,953,971 | 13,717,673 | 144,743,542 | 100.0% | 141,570,000 |

| BREAKDOWN SUBJECT TO CAP: | A1 | B1 | C1 | D1 | E1=SUM(B1:D1) | F1=A1+E1 | |
|-------------------------------|-------------|-----------|-----------|------------|-----------------|---------------|-------------|
| | Generating | | | | | | |
| | Station and | | | Wahiawa | Total | | / |
| Expense Element | Switchyard | 46kV Line | Telecom | Substation | Interconnection | Total Project | State ITC |
| Labor | 2,243,144 | 1,675,424 | 299,212 | 724,982 | 2,699,618 | 4,942,763 | |
| Materials | 32,210,236 | 1,490,363 | 533,090 | 501,328 | 2,524,781 | 34,735,016 | 34,735,016 |
| Vehicles | 2,017 | 114,541 | 183 | 551 | 115,275 | 117,292 | |
| Overheads | 12,603,385 | 2,402,368 | 533,026 | 908,373 | 3,843,767 | 16,447,152 | |
| AFUDC | 10,550,569 | 687,743 | 130,112 | 334,202 | 1,152,058 | 11,702,627 | |
| Outside Services-Construction | 67,631,285 | 601,267 | 57,799 | 78,421 | 737,487 | 68,368,772 | 68,368,772 |
| Outside Services-Other | 2,494,471 | 1,390,800 | 607,576 | 341,347 | 2,339,722 | 4,834,193 | |
| Other | 417,984 | = | 4,202 | - | 4,202 | 422,186 | V |
| | 128,153,091 | 8,362,506 | 2,165,199 | 2,889,204 | 13,416,909 | 141,570,000 | (Note 1) |
| Amount subject to bonus | 50% | 50% | 50% | 50% | 50% | 50% | 103,103,789 |
| | 64,076,545 | 4,181,253 | 1,082,599 | 1,444,602 | 6,708,455 | 70,785,000 | 4% |
| - | | | | | | | 4,124,152 |
| | | | 5,625,855 | | | | |
| Tie out of TCI: | | | | | | | |
| AFUDC | 10,550,569 | 687,743 | 130,112 | 334,202 | 1,152,058 | 11,702,627 | |
| ratio - 5 year average | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | 64.15% | |
| TCI | 6,768,010 | 441,175 | 83,465 | 214,385 | 739,025 | 7,507,036 | |
| - | | | | | | | • |
| | | | 655,561 | | | | |

Source: Ellipse & SAP

Note 1

 $Allocated \ 12/31/18 \ Plant \ Addition \ subject \ to \ the \ cap \ of \ \$141.57M. \ \ See \ further \ discussion \ at \ HECO-WP-L-001.$

Hawaiian Electric Company, Inc. Annual - TCI Closed to AFUDC Closed Ratio

| | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>5 Yr Ave</u> |
|-------|-------------|-------------|-------------|-------------|-------------|-----------------|
| TCI | 3,820,695 | 4,825,860 | 4,299,588 | 4,056,549 | 5,041,274 | 22,043,966 |
| AFUDC | 5,511,275 | 7,365,025 | 6,668,924 | 6,540,575 | 8,278,273 | 34,364,072 |
| | | | | | | |
| Ratio | 0.693251 | 0.655240 | 0.644720 | 0.620213 | 0.608977 | 0.641483 |

HECO-WP-L1-003 PAGE 22 OF 22 HECO-WP-L-001 PAGE 5 OF 5

Hawaiian Electric Company, Inc.
MPIR Removal Costs
Actuals Through December 31, 2018

| Row Labels | Sum of amount |
|-------------|---------------|
| Labor | 90,530 |
| Materials | 46 |
| Overheads | 94,426 |
| Grand Total | 185,002 |

SOURCE: Ellipse & SAP

HAWAIIAN ELECTRIC COMPANY, INC. 2018 WEIGHTED AVERAGE PIM TARGET, DEADBAND, INCENTIVE CALCULATIONS

| | | | | | | | | | Delta | |
|-------------|-----------------------|-----------|-----------|-------------|----------|----------------------|------------|---------------|-----------------|--------------------|
| | | | Max | | | Range for No Penalty | No Penalty | 2018 | SA | |
| | Period | # of Days | Penalty | 2018 Target | Deadband | Lower | Upper | Annual Total | Target | (Penalty) / Reward |
| | (a) | (p) | (c) | (p) | (e) | (f) | (g) | | (i) = (h) - (d) | () |
| SAIFI | 1/1/18-2/15/18 | 46 | 2,039,094 | 1.116 | 0.090 | 1.026 | 1.206 | 1.253 | 0.137 | |
| | 2/16/18-4/12/18 | 56 | 2,260,799 | 1.116 | 0.090 | 1.026 | 1.206 | 1.253 | 0.137 | |
| | 4/13/18-8/31/18 | 141 | 2,276,417 | 1.116 | 0.090 | 1.026 | 1.206 | 1.253 | 0.137 | |
| | 9/1/18-12/31/18 | 122 | 2,276,417 | 1.103 | 0.088 | 1.015 | 1.191 | 1.253 | 0.150 | |
| | Annual (Weiohted Avg) | 365 | 2,244,112 | 1.112 | 0.089 | 1.022 | 1.201 | 1.253 | 0.141 | (1,306,645) |
| | 0 | | | | | | | | | To Sch M |
| | | | | | | | | Note 1 | | |
| SAIDI | 1/1/18-2/15/18 | 46 | 2,039,094 | 99.030 | 9.070 | 89.960 | 108.100 | 111.940 | 12.910 | |
| | 2/16/18-4/12/18 | 56 | 2,260,799 | 99.030 | 9.070 | 89.960 | 108.100 | 111.940 | 12.910 | |
| | 4/13/18-8/31/18 | 141 | 2,276,417 | 99.030 | 9.070 | 89.960 | 108.100 | 111.940 | 12.910 | |
| | 9/1/18-12/31/18 | 122 | 2,276,417 | 99.230 | 8.960 | 90.270 | 108.190 | 111.940 | 12.710 | |
| | | | | | | | | | | |
| | Annual (Weighted Avg) | 365 | 2,244,112 | 760.66 | 9.033 | 90.064 | 108.130 | 111.940 | 12.843 | (946,492) |
| | | | | | | | | | 1 | To Sch M |
| | | | | | | | H | HECO-WP-M-004 | 4 | |
| Call Center | 1/1/18-2/15/18 | 46 | 815,638 | 79.07% | 3.00% | 76.07% | 82.07% | 83.97% | | |
| | 2/16/18-4/12/18 | 56 | 904,320 | 79.46% | 3.00% | 76.46% | 82.46% | 83.97% | | |
| | 4/13/18-8/31/18 | 141 | 910,567 | 79.56% | 3.00% | 76.56% | 82.56% | 83.97% | | |
| | 9/1/18-12/31/18 | 122 | 910,567 | 80.10% | 3.00% | 77.10% | 83.10% | 83.97% | | |
| | Annual Totals | 365 | 897,645 | 79.66% | 3.00% | 76.66% | 82.66% | 83.97% | 4.31% | 391,972 |
| | | | | | | | | | | To Sch M |

Reference: See Hawaiian Electric Compay Proposed PIM Tariff Revisions, filed on July 23, 2018 in Docket No. 2016-0328. The PIM Tariff Revisions were approved by the Commission in Order No. 35661, filed on August 30, 2018.

Note 1 SAIDI and SAIFI Annual Totals include 25 kV Proactive Work (See HECO-WP-M-002): SAIDI SAIDI

| .(| SAIFI | 111.94 1.253 With 25kV Proactive Work | -0.015 | 106.41 1.238 Without 25kV Proactive Work |
|----|-------------|---------------------------------------|-------------------------------|--|
| | SAIDI SAIFI | 111.94 | -5.52 | 106.41 |
| | | Occurrences / Minutes | Less: Exclusion for 25kV work | Annual Totals |

HAWAIIAN ELECTRIC COMPANY, INC. 2018 SAIDI and SAIFI Calculations With and Without 25 kV Scheduled Work Outages

| Without 25 kV Scheduled Work Outages | | | | | | | | | | | | | | |
|--|-----------|---------------------------|-------------|-----------|----------------------------|-----------|-------------|-----------|-----------|------------|-----------|-----------|-------------|--------------------------------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | YTD | |
| Hours Interrupted | 28,350.82 | 38,535.98 | 36,195.83 | 48,912.83 | 47,852.78 | 45,741.20 | 26,594.23 | 52,088.65 | 70,669.87 | 38,183.60 | 46,352.93 | 61,396.90 | 540,875.63 | |
| Customer Interruptions | 19,170 | 25,947 | 26,983 | 49,443 | 27,712 | 34,644 | 21,028 | 29,939 | 46,557 | 24,863 | 21,382 | 49,779 | 377,447 | |
| | | | | | | | | | | | | | | |
| SAIDI (Minutes) | 5.58 | 7.58 | 7.12 | 9.62 | 9.41 | 00.6 | 5.23 | 10.25 | 13.90 | 7.51 | 9.12 | 12.08 | 106.41 | HECO-WP-M-001 |
| SAIFI (Occurrences) | 0.063 | 0.085 | 0.088 | 0.162 | 160'0 | 0.114 | 0.069 | 0.098 | 0.153 | 0.082 | 0.070 | 0.163 | 1.238 | HECO-WP-M-001 |
| With 25 kV Scheduled Work Outages | | | | | | | | | | | | | | |
| | Jan | Feb | Mar | Apr | Mav | Inn. | lul. | Ang | Sep | Oct | Nov | Dec | VTD | |
| Hours Interrupted | 28,350.82 | 38,535.98 | 36,195.83 | 48,912.83 | 47,852.78 | 45,741.20 | 54,673.72 | 52,088.65 | 70,669.87 | 38,183.60 | 46,352.93 | 61,396.90 | 568,955.12 | |
| Customer Interruptions | 19,170 | 25,947 | 26,983 | 49,443 | 27,712 | 34,644 | 25,686 | 29,939 | 46,557 | 24,863 | 21,382 | 49,779 | 382,105 | |
| | | 1 | | | | | | | | | | | | |
| SAIDI (Minutes) | 5.58 | 7.58 | 7.12 | 9.62 | 9.41 | 0.00 | 10.76 | 10.25 | 13.90 | 7.51 | 9.12 | 12.08 | 111.94 | HECO-WP-M-001 HECO-WP-M-001 |
| SAIFT (Occurrences) | 0.003 | 0.003 | 0.000 | 0.102 | 0.091 | 0.114 | 0.00 | 0.070 | 0.133 | 0.00 | 0.0/0 | 0.103 | 1.633 | HECO-W F-IM-001 |
| Difference Between With and Without 25 kV Scheduled Work Outages (See Note Below) | | | | | | | | | | | | | | |
| Hopernmotel Tourish | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | <u>Oct</u> | Nov | Dec | <u>VTD</u> | |
| Hours Interrupted | | | | | | | (28,0/9) | | | | | | (28,079) | |
| Customer Interruptions | | | | | | | (4,658) | | | | | | (4,658) | |
| SAIDI (Minutes) | ٠ | 1 | ٠ | | | | 5.52 | | | | | | 5.52 | |
| SAIFI (Occurrences) | | | , | | | | 0.015 | | , | , | | | 0.015 | |
| ,) | | | | | | | | | | | | | | |
| Note: | | - | | | | | | | | | | | | |
| | , | | | | | | | | | | | | | |
| 25 kV Schedule Work Outage Events (see HECO-WP-M-003 for more details) | | Customer Interruptions | | | | | | | | | | | | |
| | event | • | Interrupted | | | | | | | | | | | |
| | 7/5/2018 | (329) | (138,838) | | | | | | | | | | | |
| | 7/16/2018 | (881) | (317,160) | | | | | | | | | | | |
| | 7/17/2018 | (1,003) | (399,020) | | | | | | | | | | | |
| | 7/18/2018 | (1,004) | (341,342) | | | | | | | | | | | |
| | 7/19/2018 | (585) | (192,357) | | | | | | | | | | | |
| | 7/23/2018 | (418) | (150,062) | | | | | | | | | | | |
| | 7/24/2018 | (418) | (138,610) | | | | | | | | | | | |
| | 7/25/2018 | (20) | (7,380) | | | | | | | | | | | |
| | Total | (4,658) | (1,684,769) | (28,079) | (28,079) Hours Interrupted | ted | | | | | | | | |
| | | 1-0 | Man | *** | Man | | - | | | 1 | N | 2 | GE/A | |
| 20 1 - 15 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | Jan | reo | Mar | Apr | VEIV. | unc | ıne | Aug | geb | 500 | AON. |) Dec | <u> </u> | |
| t otal Customer Minutes Interrupted without 25 kV Scheduled Work Outages | 1,701,049 | 2,312,159 | 2,171,750 | 2,934,770 | 2,871,167 | 2,744,472 | 1,595,654 | 3,125,319 | 4,240,192 | 2,291,016 | 2,781,176 | 3,683,814 | 32,452,538 | |
| Total Customer Minutes Interrupted with 25 kV | | | | | | | | | | | | | 1 | |
| Scheduled Work Outages | 1,701,049 | 2,312,159 | 2,171,750 | 2,934,770 | 2,871,167 | 2,744,472 | 3,280,423 | 3,125,319 | 4,240,192 | 2,291,016 | 2,781,176 | 3,683,814 | 34,137,307 | |
| Difference | | - | | | | | (1,684,769) | | | | • | | (1,684,769) | |

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, SWITCH NO | TIME OUT | TIME IN | TOTAL | CLASS -TYPE | AREA, DISTRICT OR SUBSTATION AFFECTED | RPT | EXPLANATION |
|--|----------|---------------------|------------|----------------|---|------|---|
| IWILEI 138KV 3 SUB IWILEI 9 25KV CKT CB-7754 BREAKER 7754 | 23:00 | | | D-2 | 821 BETHEL ST V-8196, 821 BETHEL ST V-6645 | 1664 | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE BETWEEN H/C NEAR V10308 PIER 12 AND H/C NEAR V10308 PIER 15 TO REPAIR A DEFECTIVE UNDERGROUND CABLE. IWILEI 13 CKT WAS ABNORMAL DUE TO HOT CAPS ON RO#125230 REQ#2054. E#259743. RELATED TO IR#1671. PTM: DELACRUZ, KEALII; ROSALES, RAY; PITT, ANTHONY; AHMOOK SANG, BRAD; PARK, JAMES; AHMOOK SANG, BRAD; PARK, JAMES; SIGN: OSHIRO, KELLY |
| BREAKER CB-7754 | | 06:02 07/06/2018 | 7 HR 2 MIN | | 821 BETHEL ST V-8196, 821 BETHEL ST V-6645 CUST: 3 | | |
| IWILEI 138KV 4 SUB IWILEI 13 25KV CKT CB-7759 SECTIONALIZER CB7754 | 23:00 | | | D-2 | 1020 MAUNAKEA ST V-7566, 60 NIMITZ N. HWY V-6646, 60 NIMITZ N. HWY V-6646B, 801 NUUANU AVE V-6936, 12 Pier V-10308, 15 Pier V-10309 | 1671 | SECTIONALIZER ABC PHASE #CB7754 WAS OPENED IN IWILEI SUBSTATION DUE TO A SCHEDULED OUTAGE BETWEEN H/C NEAR SW V10309 AND H/C NEAR SW V10309 AND H/C NEAR SW V10309 AND H/C NEAR SW V10308 TO REPAIR A DEFECTIVE UNDERGROUND CABLE. SCHEDULED OUTAGE TO REPAIR FAULTED IWILEI 13 CKT RO#125230 REQ#2054. E#259743 RELATED TO IR#1664 REQ#2076 PTM: AHMOOK SANG, BRAD SIGN: MACEY, JENNIFER |
| BREAKER CB7754 | | 06:02 07/06/2018 | 7 HR 2 MIN | | 1020 MAUNAKEA ST V-7566, 60 NIMITZ N. HWY V-6646B, 801 NUUANU AVE V-6936, 12 Pier V-10308, 15 Pier V-10309 CUST: 326 | | |

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.01

Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Date: July 5, 2018

(Thursday)

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, | H LING LINE | L | TOTAL | CLASS | CLASS | RPT TOTAL SANTEGE |
|---|-------------|---------------------|----------------------------|-------|---|--|
| MILEI 138KV 3 SUB 1WILEI 9 25KV CKT CB-7754 BREAKER 7754 | 22:00 | | | | | CIRCUIT BREA SCHEDULED O REPLACE 25KV RELATED TO E PTM: AHMOOK SIGN: MIYAKE, |
| BREAKER CB7754 | | 04:00 (07/17/2018 | 04:00 6 HR 0 MIN | | FROM CB7754 IWILEI SUBSTATION TO ALL TERMINATIONS CUST: 174 | |
| IWILEI 138KV 4 SUB IWILEI 13 25KV CKT CB-7759 BREAKER 7759 | 22:00 | | | D-1 | KING, MAUNAKEA ST, NUUANU AVE, SECTIONS OF NIMITZ HWY | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON IWILEI 13 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE 25KV CABLE SPLICES E#260399. RELATED TO E#260398 IR#1748 REQ#2149. PTM: DELACRUZ, KEALII; PITT, ANTHONY; WON, BRONSON; KAPOI, KALEI |
| BREAKER CB7759 | | 04:00 07/17/2018 | 04:00 6 HR 0 MIN 7/2018 | | FROM CB7759 IWILEI SUB TO ALL TERMINATIONS CUST: 707 | |

Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.01

Date: July 16, 2018

(Monday)

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| TIME OUT TIME IN TIME THE AREA. DISTRICT OR SUBSTATION AFFECTED NBR | | | | | | | | |
|--|--|-------|---------------------|-------------|-------|--|-----|---|
| 11ME OUT 11ME IN | SUBSTATION CKT | | | | CLASS | | RPT | |
| 22:04 PROM CB7706 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 335 CUST: 335 CUST: 335 CUST: 335 CUST: 336 CUST: 346 CUST | EWALO T3 SUB EWALO 5 5KV CKT CB-7706 REAKER 7706 | 22:04 | | | | | | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 5 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260487 REQ#2169. R#1759 REQ#2170, IR#1760 REQ#2171. PTM: AHMOOK SANG, NATE SIGN: MIYAKE, LANCE |
| 22:04 | REAKER CB7706 | | | 6 HR 35 MIN | | FROM CB7706 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 335 | | |
| 22:04 PEOM CB7707 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 18 CUST: 18 HI CONVENTION CENTER, VICTORIA WARD CTRS 1759 CUST: 48 CU | EWALO T3 SUB EWALO 6 5KV CKT CB-7707 REAKER 7707 | 22:04 | | | | | | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 6 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260501 REQ#2169. RELATED TO IR#1757 REQ#2168, IR#1759 REQ#2170, IR#1760 REQ#2171. PTM: DELACRUZ, KEALII SIGN: MIYAKE, LANCE |
| 22:04 D-1 HI CONVENTION CENTER, VICTORIA WARD CTRS 1759 9 07/18/2018 FROM CB8329 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 83 | REAKER CB7707 | | 04:39 07/18/2018 | 6 HR 35 MIN | | FROM CB7707 KEWALO SUBSTATION TO ALL TERMINATIONS | | |
| 04:39 6 HR 35 MIN 07/18/2018 | AMOKU T2 25KV UB AMOKU 9 5KV CKT CB-8329 REAKER 8329 | 22:04 | | | | | | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KAMOKU 9 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260499 REQ#2170. RELATED TO IR#1757 REQ#2168, IR#1758 REQ#2169, IR#1760 REQ#2171. PTM: MOUNTHONGDY, PAT SIGN: MIYAKE, LANCE |
| | REAKER CB8329 | | | | . = | FROM CB8329 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 83 | | |

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.01

Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Date: July 17, 2018

(Tuesday)

(Tuesday)

Date: July 17, 2018

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, SWITCH NO | TIME OUT TIME IN | TIME IN | TOTAL | CLASS -TYPE | CLASS -TYPE AREA. DISTRICT OR SUBSTATION AFFECTED | RPT NBR EXPLANATION |
|--|------------------|---------------------|-----------------------------|----------------|---|--|
| KAMOKU T2 25KV SUB KAMOKU 10 25KV CKT CB-8330 BREAKER 8330 | 22:04 | | | <u>-</u> | D-1 ALA MOANA SC, SECTIONS OF KEEAUMOKU ST | 1760 CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KAMOKU 10 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260500 REQ#2171. RELATED TO IR#1757 REQ#2168, IR#1758 REQ#2169, IR#1759 REQ#2170. PTM: ROSALES, RAY SIGN: MIYAKE, LANCE |
| BREAKER CB8330 | | 04:44 07/18/2018 | 04:44 6 HR 40 MIN 3/2018 | | FROM CB8330 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 567 | |

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Ran 02/06/2019 14.16.01

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, SWITCH NO | TIME OUT | TIME | TOTAL | CLASS -TYPE | AREA. DISTRICT OR SUBSTATION AFFECTED | RPT NBR EXPLANATION | NO |
|---|----------|---------------------|-------------|----------------|---|--|--|
| KEWALO T3 SUB KEWALO 5 25KV CKT CB-7706 BREAKER 7706 | 22:08 | | | 7 | SECTIONS OF ALA MOANA BLVD, CONVENTION CTR, ALA MOANA S.C. AND LATERALS | 1766 CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 5 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260590 REQ#2179. RELATED TO IR#1767 REQ#2180, IR#1768 REQ#2181, IR#1769 REQ#2182. PTM: AHMOOK SANG, NATE SIGN: MIYAKE, LANCE | ENED DUE TO A EWALO 5 25KV CKT. AL/AL CONNECTOR. #260590 REG#2179. 2180, IR#1768 |
| BREAKER CB7706 | | 03:48 07/19/2018 | 5 HR 40 MIN | | FROM CB7706 KEWALO SUB TO ALL TERMINATIONS CUST: 336 | | |
| KAMOKU T2 25KV SUB KAMOKU 9 25KV CKT CB-8329 BREAKER 8329 | 22:08 | | | D-1 | HI CONVENTION CENTER, VICTORIA WARD CTRS | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KAMOKU 9 25KV CKT TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260589 REQ#2181. RELATED TO IR#1769 REQ#2179, IR#1767 REQ#2180, IR#1769 REQ#2182. PTM: KAPOI, KALEI SIGN: MIYAKE, LANCE | ENED DUE TO A AMOKU 9 25KV CKT AL/AL CONNECTOR. #260589 REQ#2181. 2179, IR#1767 82. |
| BREAKER CB8329 | | 03:48 07/19/2018 | 5 HR 40 MIN | | FROM CB8329 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 83 | | |
| KEWALO T3 SUB KEWALO 6 25KV CKT CB-7707 BREAKER 7707 | 22:09 | | | 7-0 | SECTIONS OF KEEAUMOKU ST, KAPIOLANI BLVD, AND WAIMANU ST | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 6 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260601 REQ#2180. RELATED TO IR#1768 REQ#2179, IR#1768 REQ#2181, IR#1769 REQ#2182. PTM: DELACRUZ, KEALII SIGN: MIYAKE, LANCE | EWED DUE TO A EWALO 6 25KV CKT. AL/AL CONNECTOR. :#260601 REQ#2180. 2179, IR#1768 82. |
| BREAKER CB7707 | | 03:48 | 5 HR 39 MIN | | FROM CB7707 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 18 | | |

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.01

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

(Wednesday) Date: July 18, 2018

(Wednesday)

Date: July 18, 2018

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, SWITCH NO | TIME OUT TIME IN | T NE | TOTAL | CLASS -TYPE | CLASS -TYPE AREA, DISTRICT OR SUBSTATION AFFECTED | RPT NBR | EXPLANATION |
|--|------------------|---------------------|-----------------------------|----------------|---|--|--|
| KAMOKU T2 25KV SUB KAMOKU 10 25KV CKT CB-8330 BREAKER 8330 | 22:09 | | | - | D-1 ALA MOANA SC, SECTIONS OF KEEAUMOKU ST | 1769 SC 170 170 170 170 170 171 171 171 171 171 | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KAMOKU 10 25KV CKT TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260601 REQ#2182. RELATED TO IR#1768 REQ#2179, IR#1767 REQ#2180, IR#1767 PTM: MOUNTHONGDY, PAT SIGN: MIYAKE, LANCE |
| BREAKER CB8330 | | 03:49 07/19/2018 | 03:49 5 HR 40 MIN 9/2018 | | FROM CB8330 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 567 | | |

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Ran 02/06/2019 14.16.01

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

(Thursday)

Date: July 19, 2018

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, SWITCH NO | TIME OUT TIME IN | TIME IN | TOTAL | CLASS -TYPE | CLASS -TYPE AREA, DISTRICT OR SUBSTATION AFFECTED N | RPT NBR EXPLANATION |
|--|------------------|---------|-----------------------------|----------------|--|--|
| KAMOKU T2 25KV SUB KAMOKU 10 25KV CKT CB-8330 BREAKER 8330 | 22:00 | | | <u>-</u> | | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KAMOKU 10 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#260678 REQ#2197. RELATED TO IR#1774 REQ#2196. PTM: PITT, ANTHONY SIGN: MIYAKE, LANCE |
| BREAKER CB8330 | | 03:29 (| 03:29 5 HR 29 MIN 0/2018 | | FROM CB8330 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 567 | |
| KEWALO T3 SUB KEWALO 6 25KV CKT CB-7707 BREAKER 7707 | 22:00 | | | D-1 | SECTIONS OF KEEAUMOKU ST, KAPIOLANI BLVD, AND WAIMANU ST | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 6 25KV CKT. TO REPLACE A DEFECTIVE AL/AL CONNECTOR. TO REPLACE UG SPLICES E#?? REQ#2196. RELATED TO IR#1773 REQ#2197. PTM: ROSALES, RAY SIGN: MIYAKE, LANCE |
| BREAKER CB7707 | | 03:23 (| 03:23 5 HR 23 MIN 0/2018 | | FROM CB7707 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 18 | |

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Ran 02/06/2019 14.16.01

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, | | | TOTAL | CLASS | | RPT | |
|---|------------------|---------------------|-----------------------------|-------|--|--|---|
| SWITCH NO | TIME OUT TIME IN | TIME IN | TIME | -TYPE | AREA, DISTRICT OR SUBSTATION AFFECTED | NBR EXP | EXPLANATION |
| KEWALO T3 SUB KEWALO 5 25KV CKT CB-7706 BREAKER 7706 | 22:03 | | | D-1 | SECTIONS OF ALA MOANA BLVD, CONVENTION CTR, ALA MOANA S.C. AND LATERALS | CIRCUIT BREAKER WAS OPENEI SCHEDULED OUTAGE BETWEEN SUBSTATION TO ALL TERMINATI REPLACE A DEFECTIVE AL/AL CONTREPLACED 25KV SPLICES E#280 RELATED TO IR#1806 REQ#2206. PTM: PITT, ANTHONY: AHMOOK SIGN: MOUNTHONGDY, PAT; CHING, THE SIGN: MANZOKU, KEITH | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE BETWEEN KEWALO SUBSTATION TO ALL TERMINATIONS TO REPLACE A DEFECTIVE AL/AL CONNECTOR. UG REPLACED 25KV SPLICES E#260897 REQ#2205. RELATED TO IR#1806 REQ#2206. PTM: PITT, ANTHONY; AHMOOK SANG, NATE; MOUNTHONGDY, PAT; CHING, THOMAS SIGN. MANZOKU, KEITH |
| BREAKER CB7706 | | 04:02 07/24/2018 | 04:02 5 HR 59 MIN 4/2018 | | FROM CB7706 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 335 | | |
| KAMOKU T2 25KV SUB KAMOKU 9 25KV CKT CB-8329 BREAKER 8329 | 22:03 | | | D-1 | HI CONVENTION CENTER, VICTORIA WARD CTRS | CIRCUIT BREAKER WAS OPENEI SCHEDULED OUTAGE BETWEEN SUBSTATION TO ALL TERMINATI REPLACE A DEFECTIVE AL/AL CORPLACE OF SKN SPLICES E#280 RELATED TO IR#1805 REQ#2205. PTM: PITT, ANTHONY; AHMOOK MOUNTHONGDY, PAT; CHING, TH SIGN: MANZOKU, KEITH | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE BETWEEN KAMOKU SUBSTATION TO ALL TERMINATIONS TO REPLACE A DEFECTIVE AL/AL CONNECTOR. UG REPLACED 25KV SPLICES E#260897 REQ#2206. RELATED TO IR#1805 REQ#2205. PTM: PITT, ANTHONY; AHMOOK SANG, NATE; MOUNTHONGDY, PAT; CHING, THOMAS SIGN: MANZOKU, KEITH |
| BREAKER CB-8329 | | 04:02 07/24/2018 | 5 HR 59 MIN | | FROM CB8329 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 83 | | |

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.02

Date: July 23, 2018

(Monday)

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, | | | TOTAL | CLASS | _ | RPT |
|---|----------|---------------------|-------------|-------|---|--|
| SWITCH NO | TIME OUT | TIME IN | TIME | -TYPE | AREA. DISTRICT OR SUBSTATION AFFECTED 1 | NBR EXPLANATION |
| KAMOKU T2 25KV SUB KAMOKU 9 25KV CKT CB-8329 BREAKER 8329 | 22:04 | | | D-1 | HI CONVENTION CENTER, VICTORIA WARD CTRS | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE BETWEEN KAMOKU SUBSTATION TO ALL TERMINATIONS. UG REPLACED SPLICES REQ#2208 E#261016. RELATED TO IR#1821 REQ#2207. PTM: MAKAIAU, DAROL; KATADA, RANDY; RABE, JENSEN; KAPOI, KALEI; OKAGAWA, JON; MOUNTHONGDY, PAT; CHING, THOMAS SIGN: MANZOKU, KEITH |
| BREAKER CB-8329 | | 03:34 (| 5 HR 30 MIN | | FROM CB8329 KAMOKU SUBSTATION TO ALL TERMINATIONS CUST: 83 | |
| KEWALO T3 SUB KEWALO 5 25KV CKT CB-7706 BREAKER 7706 | 22:05 | | | D-1 | SECTIONS OF ALA MOANA BLVD, CONVENTION CTR, ALA MOANA S.C. AND LATERALS | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE BETWEEN KEWALO SUBSTATION TO ALL TERMINATIONS. UG REPLACED SPLICES ON REQ#2207 E#261016. RELATED TO IR#1822 REQ#2208. PTM: MAKAIAU, DAROL; KATADA, RANDY; RABE, JENSEN; OKAGAWA, JON; MOUNTHONGDY, PAT; SIGN: MANZOKU, KEITH |
| BREAKER CB-7706 | | 03:37 07/25/2018 | 5 HR 32 MIN | | FROM CB7706 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 335 | |

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

Ran 02/06/2019 14.16.02

Date: July 24, 2018

Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

(Tuesday)

System Operation Department

PUC FORM GO No. 7-7.5C

Interruption Report

| SUBSTATION CKT NAME, VOLTAGE, | | | | CLASS | | RPT | | |
|---|------------------|---------|-------------------------|-------|--|------|---|--|
| SWITCH NO | TIME OUT TIME IN | TIME IN | TIME | -TYPE | -TYPE AREA, DISTRICT OR SUBSTATION AFFECTED | NBR | EXPLANATION | |
| KEWALO T3 SUB KEWALO 7 25KV CKT CB-7708 BREAKER 7708 | 22:01 | | | D-1 | FROM CB7708 KEWALO SUBSTATION TO ALL TERMINATIONS | 1830 | CIRCUIT BREAKER WAS OPENED DUE TO A SCHEDULED OUTAGE ON KEWALO 7 25KV CKT TO REPLACE A DEFECTIVE AL/AL CONNECTOR. UG REPLACED SPLICES E#261078 PTM: KAPOI, KALEI; YAMANE, ROSS SIGN: MANZOKU, KEITH | |
| SWITCH SW V10397 | | 04:10 | 04:10 6 HR 9 MIN 6/2018 | | FROM CB7708 KEWALO SUBSTATION TO ALL TERMINATIONS CUST: 20 | | | |

HE. No. 171 REV 4/99 Type 1: COMPANY: Confined within HECO system
Type 2: EQUIP: Failure of HECO equipment
Type 3: PUBILC: Caused by public/equip. not HECO Related
Type 4: EXTERNAL: Act of nature [Storm; Flood; Etc.]

Date: July 25, 2018

(Wednesday)

Ran 02/06/2019 14.16.02

Class A: Large areas; important Cust.; Transmission lines. Class B: Large group of cust.; junctions; circuits; tsfs. Class C: Small group of cust.; transformers; lines. Class D: Prearranged outage. Class E: Affecting no cust.; parallel lines

HAWAIIAN ELECTRIC COMPANY, INC. Call Center Performance (Service Level) Results 2018

Call Center Performance (Service Level) Excludes Blocked Calls

| Month | Total Calls Accepted * | Calls Answered Within 30 Seconds | Service Level | Weighted Total | Weighted Service Level |
|--------|---------------------------|---|---------------|-------------------|---------------------------|
| Jan-18 | 27,380 | 24,550 | 89.66% | 8.37% | 7.51% |
| Feb-18 | 22,944 | 20,577 | 89.68% | 7.02% | 6.29% |
| Mar-18 | 23,827 | 21,393 | 89.79% | 7.29% | 6.54% |
| Apr-18 | 26,277 | 23,095 | 87.89% | 8.04% | 7.06% |
| May-18 | 27,042 | 24,152 | 89.31% | 8.27% | 7.39% |
| Jun-18 | 27,941 | 22,446 | 80.33% | 8.55% | 6.86% |
| Jul-18 | 30,579 | 23,648 | 77.33% | 9.35% | 7.23% |
| Aug-18 | 31,082 | 23,749 | 76.41% | 9.51% | 7.26% |
| Sep-18 | 27,644 | 22,345 | 80.83% | 8.45% | 6.83% |
| Oct-18 | 30,957 | 25,586 | 82.65% | 9.47% | 7.82% |
| Nov-18 | 26,496 | 21,556 | 81.36% | 8.10% | 6.59% |
| Dec-18 | 24,817 | 21,460 | 86.47% | 7.59% | 6.56% |

Total 83.97%

To HECO-WP-M-001

Source: Generated from Genesys Interactive Insights system.

^{*} All customer calls handled by a Customer Service Representative (including abandoned calls)

HAWAIIAN ELECTRIC COMPANY, INC. Phase 1 Renewable Energy RFP Performance Incentive Mechanism 2018

| Line | Awarded Projects | Reference | BAFO Levelized Price (\$/MWh) | Net Energy Potential (MWh) | | PIM Calculation | (2 | Calculation 20% utility share) |
|------|---|---------------------------------------|-------------------------------------|----------------------------------|-----|--------------------|----|--------------------------------------|
| | | | a | b | c = | (x or y-a)*b | d | = c * 20% |
| 1 | Ho'ohana Solar 1 (O-2) (with battery storage) | Docket No. 2018-0431 D&O No. 36236 | 99.78 Note 3 | 114,481 | \$ | 1,742,401 | \$ | 348,480 |
| 2 | Mililani Solar I (O-17) (with battery storage) | Docket No. 2018-0434 D&O No. 36232 | 88.16 | 93,121 | \$ | 2,499,368 | \$ | 499,874 |
| 3 | Waiawa Solar (O-20) (with battery storage) | Docket No. 2018-0435 D&O No. 36231 | 95.93 | 87,927 | \$ | 1,676,768 | \$ | 335,354 |
| 4 | | Total Fina | l Variable Request | s for Proposals | \$ | 5,918,536 | \$ | 1,183,707 |
| 5 | | | 5 | 50% Year 1 | | Note 2 | \$ | 591,854 To Sch M |

| | Note I | | |
|---------------------|--------|--------|---|
| PIM Benchmark | ¢/kWh | \$/MWh | |
| Energy Only | 9.5 | 95.00 | X |
| Paired with Storage | 11.5 | 115.00 | y |

Note 1 Per Order No. 35405, Docket No. 2017-0352, filed April 6, 2018, PIM benchmarks per pages 11 and 12.

Language from Order 35405:

The Companies share would be 20% of the estimated first-year savings compared to the applicable benchmark up to a cap of \$3,500,000.

The estimated first-year savings will be calculated by multiplying the forecasted first-year energy production (in kWh) of the project by the difference between the applicable benchmark price and the equivalent price (in cents per kWh).

The equivalent PPA price will be established by the levelized cost of the project computed by the Companies during the evaluation and selection process in the Phase I procurement effort.

Similarly, the forecasted first-year energy production will be determined by using the energy production estimated in the evaluation and selection process.

Per Order No. 35664, Docket No. 2017-0352, filed September 6, 2018:

The Commission ruled on the treatement of the Additional PPAs proposed in the Companies' June 20, 2018 Letter indicating that the additional PIM for these PPAs will function in a similar manner to the original PIM. The Companies shall receive a performance incentive equialent to 20% of the estimated first-year savings compared to the applicable benchmark, up to a cap of \$3,000,000, for the Additional PPAs filed with the commission by December 31, 2018. For any Additional PPAs submitted after December 31, 2018, until March 31, 2019, the Companies' share of the savings pursuant to the PIM will be reduced in accordance with the proposal in the Companies' June 20, 2018 Letter.

Note 2 Per Decision and Order No. 35405, Docket No. 2017-0352, filed April 6, 2018, Timing of Incentive Award, p 14

First Allocation:

The first allocation of the PIM will be shortly after the approval of the PPAs. At that time, the commission will allocate the first 50% of the total PIM to the Companies, based on the equivalent PPA prices and the forecasted first-year energy production.

The commission intends that the applicable performance incentive would be awarded to the Companies through their respective Revenue Balancing Account Provision tariffs.

Second Allocation:

Following the first year of commercial operations for each project, the Companies shall submit a report of the actual energy utilized for each of the PPAs approved by the Commission. The Commission will provide the Companies with a portion, or all, of the remaining 50% of the PIM, dependent upon the actual amount of energy output utilized.

CIAC Treatment
Resulting from FERC Adoption

Adoption of FERC USOA required a change in presentation change to Contributions in Aid of Construction (CIAC)

Prior to October 2018, and in establishing rates in previous test year rate cases, the Company's presentation of contributions in aid of construction ("CIAC") followed the guidelines of the National Associate of Regulatory Utility Commissioners Uniform System of Accounts (NARUC USOA). Under the NARUC reporting system, CIAC is reported under an exclusive account, account 271, which includes donations or contributions in cash, services or property from states, municipalities, or other governmental agencies, individuals and others for construction purposes. All CIAC was incorporated as a deduction in the calculation of rate base in part because the Companies' systems did not facilitate on-going reporting of CIAC related to plant in service separate from CIAC related to construction work in progress ("CWIP").

The Commission approved the Companies' request to change to Federal Energy Regulatory Commission Uniform System of Accounts (FERC USOA), beginning with the implementation of the Companies' new ERP/EAM, in Decision and Order No. 31757, issued December 19, 2013 in Docket No. 2013-0007.

Beginning in October 2018 with the transition to FERC, the net balance of CIAC in account 271 less the CIAC amortization to be recorded for October to December 2018, was credited against the account balances charged with the cost of construction, i.e., gross plant in service and CWIP, resulting in the account becoming zero (i.e. "0") at December 31, 2018.

Ratemaking treatment for CIAC

The Company's ratemaking treatment of contributions in aid of construction is summarized below:

- CIAC associated with Plant in Service When a utility capital project is placed into service, the plant in service net of the associated CIAC is included as net cost of plant in service in rate base. The plant in service net of the CIAC is included as part of the basis for the depreciation accrual the year after it is placed into service (i.e. January 1 of the year after it is placed into service).
- CIAC associated with CWIP For book purposes, CIAC that is received while projects
 are still under construction (i.e. in CWIP) will offset the costs incurred and is presented
 net in CWIP. The CWIP net of the associated CIAC is subject to the AFUDC accrual if
 there is a net CWIP balance. In the next rate case, the Company will request CIAC
 associated with CWIP be excluded from the rate base calculation since CWIP net of

CIAC earns AFUDC. CIAC associated with CWIP is however, included in rate base in this RAM calculation for consistency with the 2017 Test Year treatment. See further discussion of Company's requested treatment of CIAC associated with CWIP below.

Developer Advances - Cash contributions received in advance of construction of a utility capital project that are temporarily not classified as CIAC because the funds received are in excess of the specific project expenditures. The balance of developer advances is presented as funds from non-investors, included in its own exclusive account, and deducted in the calculation of rate base. As project costs are incurred for a utility capital project, an equal portion of developer advances associated with the project will be reclassified as CIAC and credit the accounts charged with the cost of construction. Developer Advances were included as a part of CIAC as a reduction to rate base in the 2017 Test Year.

Treatment of CIAC within the 2019 Annual Decoupling Filing

For the 2019 Decoupling Filing, the Company treated CIAC consistently with prior filings resulting in no impact to rate base.

Schedule D1, Determination of Rate Base RAM Adjustment – Change in Rate Base

Plant in Service - There is no change in rate base for plant in service and CIAC associated with plant in service. Under NARUC, in rate base, plant in service was the gross cost of plant (net of accumulated depreciation), and CIAC was a separate reduction to rate base. Under FERC, the plant in service amounts are net of (i.e., already reduced by) CIAC, and presented net of accumulated depreciation in the calculation of rate base. There is no separate CIAC line item reducing rate base because it is already net in utility plant. Therefore, there is no net rate base impact. The difference between NARUC and FERC for plant in service is a matter of where the costs are classified in rate base, and not a matter of inclusion or exclusion of costs in rate base.

CIAC associated with CWIP - There is no change in rate base for CIAC associated with CWIP. Previously, presentation of CIAC aligned with NARUC and all CIAC, including amounts associated with projects in CWIP, were included as a reduction to rate base under account 271. The 2019 estimated balance continues the treatment of including the CIAC in CWIP to be consistent with the recorded balance at 2018 year-end because all 2019 estimated CIAC additions have been included at Schedule D2 and included as part of net cost of plant at Schedule D1. Although the treatment described above was used in the 2019 annual decoupling filing, see Company's requested treatment to exclude CIAC associated with CWIP from rate base in future filings in the discussion below.

Developer Advances - With the transition to FERC, CIAC is credited when received against the related project costs in CWIP. To the extent funds are not yet expended for a project in

CWIP, the CIAC will be classified as developer advances and deducted in the calculation of rate base at Schedule D1. The recorded balance at 2018 year-end is not adjusted for 2019 activity as it is incorporated in Schedule D2.

Schedule D2, Determination of Baseline Capital Projects Additions

Schedule D2 was revised to incorporate the baseline and major project CIAC (including Developer Advances) for 2014 to 2017 into the baseline average calculation of net plant in service, consistent with the presentation of rate base. The 2018 CIAC additions calculated at HECO-WP-D2-003 includes additions to CIAC from all sources, i.e. Plant, CWIP and Developer Advances, which were used in the 5-year baseline calculation. As a result, the estimated 2019 additions to CIAC in CWIP and Developer Advances balances at Schedule D1 for the Change in Rate Base are not required as they are already included in the net cost of plant line item.

Schedule E, Determination of Depreciation & Amortization RAM Adjustment

FERC Uniform System of Accounts Electric Plant Instructions, 2. Electric Plant To Be Recorded at Cost. D. states, "The electric plant accounts shall not include the cost or other value of electric plant contributed to the company." Therefore, the Recorded Depreciable/ Amortizable Balances at December 31, 2018 in Schedule E represents plant in service net of CIAC which is used as the basis to estimate the 2019 annual accrual amount. In calculating the 2019 RAM Depreciation and Amortization, Depreciation and Amortization in Current Revenues also includes CIAC amortization approved in the 2017 Test Year.

Schedule F & F1, Determination of Change in Deferred Income Taxes & Tax Depreciation

The methodology for computing the deferred taxes related to RAM year tax depreciation was not changed within the 2019 annual decoupling filing. Gross plant additions are used as the basis for calculating tax depreciation. However, see the CIAC impact to ADIT section below for the Company's preferred treatment considering the effects of netting CIAC against plant in service.

Schedule G-series, CIAC

Schedule G, G1 and G2 were removed from the Decoupling filings and instead incorporated into either Plant in Service, CIAC in CWIP or Developer Advances. The December 31, 2018 balances for CIAC associated with CWIP and Developer Advances were extracted from PowerPlan. Additionally, as noted above, the calculation of the 5-year baseline average of CIAC and amortization was incorporated within Schedule D2 and Schedule E, respectively.

The Company will continue to include CIAC associated with CWIP and Developer Advances as a reduction to rate base until the FERC presentation of rate base is approved in the Company's next rate case.

Company's requested CIAC treatment

The Company requests to reflect the following changes to the treatment of CIAC within the annual decoupling filings.

CIAC associated with CWIP

In Mr. Franklin's T-12 direct testimony in Hawaii Electric Light's 2019 Test Year rate case, the Company proposes to remove CIAC associated with CWIP from the calculation of rate base due to the fact that CWIP net of associated CIAC earns AFUDC, therefore the CWIP and its associated CIAC should be excluded from rate base.

Excluding CWIP net of CIAC, to better align the source of funds with its use (i.e. the CIAC funds received were applied against the costs incurred for the project) and is therefore properly excluded from the calculation of rate base. In addition, and as mentioned previously, any material CIAC received in advance of construction expenditures will continue to be deductions in the calculation of rate base as Developer Advances.

CIAC impact to ADIT

ADIT associated with CIAC in CWIP should be divided between nontaxable and taxable CIAC. Nontaxable CIAC (primarily interconnection CIAC) is treated as a reduction in basis for both book and tax purposes. On the other hand, although taxable CIAC is also a reduction in basis for book purposes, for tax purposes, the receipt of taxable CIAC creates tax basis by way of the recognition of taxable income and reverses by way of tax depreciation.

Nontaxable CIAC does not create ADIT since there is no book tax difference. Consequently, the regulatory netting of nontaxable CIAC against the plant assets should not create any issue with respect to the ADIT beginning balance for the rate base RAM calculation

Taxable CIAC generates a Deferred Tax Asset (DTA) as it is received and recorded into CWIP under the new FERC accounting. Prior NARUC accounting treatment with account 271 created DTA as CIAC was booked to 271, which is equivalent to what is now booked to CWIP. The origination and timing of the DTA under the FERC method will be equivalent to the NARUC method. However, under the old method, the DTA was immediately recognized as part of rate base, consistent with the treatment of the account 271 inclusion. However, under the FERC method, the generation of the DTA must be inventoried and tracked to match up with the amount of CIAC in CWIP and the amounts closed to plant in service. This tracking is necessary to ensure that the amount of DTA related to CWIP is excluded from rate base. Once CWIP costs are closed to plant, the related DTA will be included in rate base and will begin reversal through tax depreciation taken on the CIAC tax basis.

FERC accounting imbeds the book treatment of CIAC within CWIP and the ultimate plant and related depreciation. The separation will disappear and the Company asserts that the ADIT

effects will be the same with respect to the beginning balance of ADIT for the annual decoupling filing except to the extent CIAC is still in CWIP. This issue will be addressed along with the rate base treatment of CIAC associated with CWIP as mentioned above.

FERC accounting nets CIAC against Plant in Service for purposes of computing baseline and major plant additions. For RAM year tax depreciation and the related ADIT calculated for the change in RAM year ADIT, adopting the net plant additions as the RAM year tax additions will be a change that will result in a smaller amount of tax depreciation and ADIT "change" since the Company previously has assumed the gross additions to be the RAM year tax depreciable base. The Company asserts this is reasonable for the following reasons:

- 1) Under the old method, to the extent nontaxable CIAC was included in the RAM year numbers (through major projects or baseline projects), tax depreciable basis was overstated since there is no tax basis for assets funded by nontaxable CIAC.
- 2) With respect to taxable CIAC, the funded assets do have depreciable tax basis and it is accounted for in the RAM year additions tax depreciation. However, the receipt of taxable CIAC generates taxable income and deferred tax assets that increase rate base. The effect of this DTA from taxable CIAC was never recognized in the RAM tariff, which resulted in an overstatement of RAM year ADIT change, as it related to the projected plant additions.

For purposes of the 2019 RAM calculation, ADIT has been calculated on gross plant additions, consistent with the 2017 Test Year treatment and prior decoupling filings, however the Company is requesting treatment of CIAC in deferred tax to follow FERC accounting.

Summary

In summary, Hawaiian Electric prepared the 2019 annual decoupling filings in accordance with the historical treatment of CIAC. Historically, due to system constraints, CIAC records were not maintained with matching of the separate components (plant in service, CWIP, developer advances). As a result, the entire amount of CIAC was treated as a reduction to rate base and the Return on Investment was understated. As stated in Mr. Franklin's T-12 direct testimony in Hawaii Electric Light's 2019 Test Year rate case, the Companies propose to exclude the CIAC associated with CWIP in its calculation of rate base in the rate base RAM filings. Should the Commission approve Hawaii Electric Light's proposal, Hawaiian Electric will implement this change in the annual decoupling filing in the year following the Commission's approval.