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Vice President
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PUBLIC UTILITIES
COMMISSION

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

Dear Commissioners:

Subject: Transmittal No. 15-03 (Decoupling)
Hawaiian Electric's Amended RBA Rate Adjustment Tariff Filing

In accordance with Order No. 32735 ("Order"), enclosed for filing is Hawaiian Electric Company, Inc.'s ("Hawaiian Electric" or "Company") amended Revenue Balancing Account ("RBA") Rate Adjustment in Transmittal No. 15-03, effective for the period from June 1, 2015 through May 31, 2016.

This filing includes the following attachments:

1. Revised tariff sheet (in clean and blacklined versions) with the Company's revised proposed RBA Rate Adjustment rate in Attachment 1;
2. Revised tariff sheets (in clean and blacklined versions) with the Company's revised proposed Rate Adjustment Mechanism ("RAM") tariff modifications in Attachment 1; and
3. Revised 2015 Decoupling Calculation Workbook (all support has been provided for convenience) in Attachment 2

The Company's Amended 2015 Decoupling Calculation Workbook reflects the calculation and application of the RAM Cap and is otherwise consistent with the provisions set forth in Order No. 32735. Based on the revised calculations, Hawaiian Electric's 2015 RBA Rate Adjustment has decreased by .0629¢ to 2.2201¢ per kilowatt-hour ("kWh") from the March 31, 2015 Transmittal No. 15-03 filing. The overall impact on a typical customer's monthly bill (based on an average usage of 600 kWh) decreased by \$0.38 from the March 31, 2015 filing, and results in an incremental impact of \$0.56 from the current 2014 RBA Rate Adjustment.

Further, the Company submits proposed tariff changes that reflect the provisions of Order No. 32735 to be effective June 1, 2015.

RAM Cap Methodology and Adjustments

This filing reflects the changes to the RAM as set forth in Order No. 32735, which states that the Hawaiian Electric Companies¹ shall apply the lesser of (a) the RAM Revenue Adjustment determined according to existing tariffs and procedures² or (b) the RAM Cap calculated as specified in the Order to determine the RAM Revenue Adjustment to be applied to determine effective Target Revenues (see Order at 94). In order to calculate the RAM Cap, pursuant to the Order, the Company first determined its 2014 adjusted target revenues. Then, the Company incremented its 2014 adjusted target revenues by the GDPPI index of 1.1%³ to arrive at the 2015 RAM Cap.

The RAM Cap for 2015 and for each subsequent year until the issuance of a final decision and order in the next rate case will include the adjusted 2014 RAM Revenue Adjustment described below (Order at 96).

2014 Adjusted Target Revenues

Hawaiian Electric's 2014 target revenues (as filed in Schedule B1 of the May 22, 2014 Revised Annual Decoupling Filing) consist of (1) target revenues based on Decision and Order No. 30505 in Docket No. 2010-0080 (Hawaiian Electric's 2011 test year rate case) and (2) authorized RAM revenues since the 2011 test year. Authorized RAM revenues include the O&M RAM, Rate Base – Return on Investment RAM, and the Depreciation and Amortization RAM. In order to determine the adjusted target revenues, the Company made no changes to the rate case target revenues and O&M RAM as filed in the 2014 Annual Decoupling Filing. However, pursuant to the Order, the Company made certain adjustments to the Rate Base – Return on Investment RAM and the Depreciation and Amortization RAM. The changes are described below.

Rate Base RAM Included in 2014 Adjusted Target Revenue Base

Paragraph 108 on page 95 of the Order states the following:

The 2014 RAM Revenue Adjustment used to determine the adjusted 2014 target revenues for purposes of determining the cap will be adjusted to use recorded 2014 end-of-year actuals (plant in service, depreciation and amortization, CIAC, and ADIT) rather than 2014 RAM year projections in determination of the 2014

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

² The Order at page 82 states: "The amendments to the RAM implemented by this Order replace and terminate the previous interim limitations on RAM year Rate Base RAM adjustments required pursuant to Order No. 31908." Therefore, the RAM revenue adjustment no longer includes the 90% limitation on the incremental Rate Base RAM-Return on Investment.

³ See Schedule C of Attachment 2 to this Transmittal.

Depreciation and Amortization RAM Expense and average rate base in the 2014
Rate Base RAM.

As set forth in the Order, the Company utilized recorded December 31, 2014 actual ending balances for plant in service, net of depreciation and amortization, CIAC, and ADIT as the 2014 RAM year ending balances to determine an adjusted 2014 Rate Base RAM amount. Consistent with the existing RAM tariff, the December 31, 2014 balance amounts were reduced for amounts related to major projects in excess of the PUC-authorized amounts. Therefore, the amounts utilized are the same as the 2015 RAM year beginning balances on Schedule D1 of the Company's March 31, 2015 Annual Decoupling Filing.⁴

The Adjusted 2014 Rate Base RAM excludes the rate base return on investment revenue associated with the CIP CT-1 Regulatory Asset and CIS Deferred Costs (Order at 95, footnote 149), as these are items for which recovery has been explicitly stated in the *Stipulated Settlement Agreement between the Hawaiian Electric Companies and the Division of Consumer Advocacy regarding Certain Regulatory Matters*, approved by the Commission in Order No. 31126 in Docket No. 2008-0083 ("Stipulated Settlement"). As directed in the Order and further explained below, the 2015 RAM revenue requirements associated with these items are added back to the 2015 RAM Cap to determine the Allowed RAM for 2015.

Pursuant to the Order (at pages 6 and 82), the 90% limitation on the RAM year Rate Base RAM adjustment shall no longer apply. Therefore, that limitation has been removed in the calculation of the 2014 adjusted Rate Base RAM.

Depreciation and Amortization RAM Included in 2014 Adjusted Target Revenue Base
Hawaiian Electric appreciates the Commission's decision to utilize the recorded 2014 end-of-year actuals for net plant in service to determine the adjusted 2014 Rate Base RAM amount. In view of the possible intent of certain language in the Order, the Company respectfully requests consideration of the following regarding the calculation of the 2014 Depreciation and Amortization RAM amount.

Paragraph 108 on page 95 (quoted above) of the Order also addresses an adjustment for depreciation and amortization expense and provides for the use of end-of-year actuals to determine the 2014 RAM Revenue Adjustment for the calculation of the adjusted 2014 target revenues for the RAM Cap. Therefore, in Attachment 2 of this filing, the Company is utilizing the recorded end-of-year 2014 plant in service and CIAC balances to calculate the adjusted 2014 Depreciation and Amortization RAM.⁵ The December 31, 2014 plant in service balance includes the plant additions that already went into service and began providing benefits to customers in

⁴ Also see Schedule D1 of Attachment 2 to this Transmittal.

⁵ The Depreciation and Amortization RAM recovered through the 2014 RBA rate adjustment did not include depreciation expense for plant additions through 2014, because under the Company's methodology of calculating depreciation, the depreciation accrual is based on the prior year ending (2013) plant in service balance.

2014. Therefore, the adjusted Company's Depreciation and Amortization calculation includes recovery of 2014 plant additions, but no recovery of any 2015 plant additions.

However, the use of the December 31, 2013 plant in service balance, which would determine 2014 actual depreciation expense, includes recovery of 2013 plant additions but no 2014 plant additions.

Utilizing the 2014 actual depreciation expense would result in the Company receiving no recovery of 2014 plant additions (over the amount of inflation on that expense amount) in its target revenue base and would not reflect depreciation on the "approved utility rate base" (i.e., "recorded 2014 end-of-year actuals"). Footnote 4 on page 6 of the Order states the following: "With respect to recovery of revenues for capital projects, the amended RAM will thus allow continued automatic revenue recovery for capital project net plant additions in an amount effectively in rough approximation to the rate of depreciation and amortization on approved utility rate base, plus an increment of effective rate base indexed on general inflation. Beyond that, the amended RAM is intended to allow recovery of revenues for additional capital projects with prior approval by the commission." Paragraph 108 makes clear that the adjusted 2014 target revenues would be based on the recorded 2014 end-of-year actuals for plant in service to determine the average rate base in the 2014 Rate Base RAM. Therefore, the "approved utility rate base" includes 2014 plant additions. Hence, in order to achieve the methodology specified in footnote 4 of the Order – that the "amended RAM will allow continued automatic revenue recovery of capital project net plant additions in an amount effectively in rough approximation to the rate of depreciation and amortization on approved utility rate base, plus an increment of effective rate base indexed on general inflation" – it would be reasonable for the depreciation expense used to calculate the adjusted 2014 target revenues to include depreciation of 2014 plant additions.

For Hawaiian Electric, the increase in the Depreciation and Amortization RAM (which is consistent with the Company's book recorded expense) from 2014 (which includes recovery of 2013 net plant adds) to 2015 (which includes recovery of 2014 net plant adds) was \$8.9 million. Therefore, utilizing 2014 Depreciation and Amortization recorded expense, based on 2013 net plant additions and no 2014 net plant additions, would result in \$9.0 million less than the RAM Cap filed in Attachment 2. Not being able to include this amount in the 2015 RAM cap when the 2014 plant investments have already been made would preclude the Company from ever recovering the depreciation for the 2014 plant additions for the period until the Company is able to reset its revenue requirement in a future rate case.

Therefore, the Company proposes to include the depreciation of 2014 plant additions (and no recovery of any projected 2015 plant additions) in its 2014 target revenue base to determine its 2015 RAM Revenue Cap. The Company calculates its Depreciation and Amortization RAM by multiplying the beginning of year plant-in-service and CIAC balances (equal to the prior year ending balance) by the respective depreciation and amortization rates to arrive at the depreciation

and amortization expense for the year. Therefore, the Company utilized the December 31, 2014 recorded plant in service and CIAC balances to determine the Depreciation and Amortization RAM in Attachment 2 of this filing, while excluding depreciation related to major projects in excess of Commission authorized amounts.⁶

The adjusted Depreciation and Amortization RAM also excludes the amortization associated with the CIP CT-1 Regulatory Asset and CIS Deferred Costs (Order at 95, footnote 149), as these are items for which recovery has been explicitly stated in the Stipulated Settlement approved by the Commission. The 2015 RAM revenue requirements associated with these items are added back to the 2015 RAM Cap to determine the Allowed RAM for 2015. See below for further discussion.

Adjustment for Explicitly Stipulated and Approved Exceptional or Other Matters

Paragraph 107 on page 94 of the Order states the following:

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 the application of the RAM Cap.¹⁴⁹

Footnote 149 on page 95 of the Order states the following: "The commission notes that currently such applicable matters include adjustments accounting for CT-1 costs (for the HECO Company) and CIS costs (for all of the HECO Companies) as provided in a stipulated settlement approved by the commission as amended in Order No. 31126 in Docket No. 2008-0083."

As discussed above, the Company has excluded the CIS Deferred Costs and CIP CT-1 RAM revenues (both Rate Base RAM Return on Investment and Depreciation and Amortization RAM) from its 2014 Adjusted Target Revenue Base subject to GDPPI escalation. The Company separately added the 2015 RAM revenue requirement associated with these items to determine the Allowed RAM Cap.

⁶ If the Commission is not inclined to allow the Company to utilize the recorded 2014 end-of-year net plant in service balance to calculate the adjusted 2014 Depreciation and Amortization RAM, the Company requests in the alternative that the Commission allow it to separately apply for recovery of the depreciation expense associated with the 2014 plant additions, similar to for authorization provided by Order No. 32735 for the Companies to apply for approval of recovery of revenues for Major Projects through the RAM above the RAM Cap or outside of the RAM through the Renewable Energy Infrastructure Program ("REIP") surcharge or other adjustment mechanism. The difference is that such application would not need to include recovery of the return on those investments since the adjusted 2014 target revenues would already include recovery of that amount.

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After incorporating the above adjustments into its 2014 Adjusted Target Revenue Base, the Company escalated the 2014 adjusted target revenues by the 2015 GDPPI index of 1.1%.⁷ The Company then added the CT-1 and CIS 2015 revenue requirements to determine the 2015 RAM Cap.⁸ Because the effective RAM Revenue Adjustment shall be the lesser of (a) the RAM Revenue Adjustment determined according to existing tariffs and procedures or (b) the RAM Cap, and the Company's calculated 2015 RAM Cap is the lessor of the two, the Company has utilized the 2015 RAM Cap Revenue Adjustment to determine the 2015 RBA Rate Adjustment.⁹

Very truly yours,



Joseph P. Viola
Vice President
Regulatory Affairs

cc: Division of Consumer Advocacy

⁷ See Schedule J in Attachment 2 to this Transmittal.

⁸ See Schedules A1 and K in Attachment 2 to this Transmittal.

⁹ See Schedule A1 in Attachment 2 to this Transmittal.

ATTACHMENT 1

Superseding Revised Sheet No. 50D
Effective October 1, 2014

REVISED SHEET NO. 50D
Effective June 1, 2015

RATE SCHEDULES (continued)

<u>Sheet</u>	<u>Schedule</u>	<u>Date Effective</u>	<u>Character of Service</u>
87	TOU-R	September 1, 2012	Residential Time-Of-Use Service
88	TOU-R	September 1, 2012	Residential Time-Of-Use Service
89	Residential TOU EV	October 1, 2014	Residential Time-Of-Use Service with Electric Vehicle Pilot
89A	Residential TOU EV	October 1, 2014	Residential Time-Of-Use Service with Electric Vehicle Pilot
89B	Residential TOU EV	October 1, 2014	Residential Time-Of-Use Service with Electric Vehicle Pilot
90	Residential EV-R	October 1, 2014	Residential Electric Vehicle Charging Service Pilot
90A	Residential EV-R	October 1, 2014	Residential Electric Vehicle Charging Service Pilot
90B	Residential EV-R	October 1, 2014	Residential Electric Vehicle Charging Service Pilot
91	Commercial EV-C	October 1, 2014	Commercial Electric Vehicle Charging Service Pilot
91A	Commercial EV-C	October 1, 2014	Commercial Electric Vehicle Charging Service Pilot
91B	Commercial EV-C	October 1, 2014	Commercial Electric Vehicle Charging Service Pilot
92	"RBA"	June 1, 2013	Revenue Balancing Account Provision
92A	"RBA"	January 1, 2014	Revenue Balancing Account Provision
92B	"RBA"	March 1, 2014	Revenue Balancing Account Provision
92C	"RBA"	June 1, 2015	Revenue Balancing Account Provision

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Transmittal Letter Dated April 15, 2015.

Superseding Sheet No. 50E
Effective April 1, 2015

REVISED SHEET NO. 50E
Effective June 1, 2015

<u>Sheet</u>	<u>Schedule</u>	<u>RATE SCHEDULES (continued)</u>	
		<u>Date Effective</u>	<u>Character of Service</u>
92D	"RBA"	June 1, 2013	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 1, 2015	Rate Adjustment Mechanism Provision
93C	"RAM"	March 30, 2014	Rate Adjustment Mechanism Provision
93D	"RAM"	March 1, 2011	Rate Adjustment Mechanism Provision
93E	"RAM"	June 1, 2015	Rate Adjustment Mechanism Provision
93F	"RAM"	June 1, 2013	Rate Adjustment Mechanism Provision
93G	"RAM"	June 1, 2015	Rate Adjustment Mechanism Provision
93H	"RAM"	June 1, 2015	Rate Adjustment Mechanism Provision
93I	"RAM"	June 1, 2015	Rate Adjustment Mechanism Provision
93J	"RAM"	June 1, 2015	Rate Adjustment Mechanism Provision
94	"PPAC"	April 1, 2015	Purchased Power Adjustment Clause
94A	"PPAC"	April 1, 2015	Purchased Power Adjustment Clause
94B	"PPAC"	April 1, 2015	Purchased Power Adjustment Clause
95	EV-F	July 4, 2013	Commercial Public Electric Vehicle Charging Facility Service Pilot
95A	EV-F	July 4, 2013	Commercial Public Electric Vehicle Charging Facility Service Pilot
95B	EV-F	July 4, 2013	Commercial Public Electric Vehicle Charging Facility Service Pilot
96	EV-U	July 4, 2013	Commercial Public Electric Vehicle Charging Service Pilot
96A	EV-U	July 4, 2013	Commercial Public Electric Vehicle Charging Service Pilot

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REVENUE BALANCING ACCOUNT ("RBA") PROVISION

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.

Complete, indexed workpapers and electronic files supporting the previous year-end balance in the RBA 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, coincident with the Annual Evaluation Date 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. The Consumer Advocate, Other Rate Case Parties, and other interested persons may propose any adjustments determined to be required to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

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.

Effective June 1, 2015 to May 31, 2016

RBA Rate Adjustment

All Rate Schedules 2.2201 ¢/kWh

F. NOTICE

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated April 15, 2015.

RATE ADJUSTMENT MECHANISM PROVISION

Rate Adjustment Mechanism ("RAM") Provision

Purpose

This mechanism is subject to review and continuation, termination or modification in the utility's next base rate case proceeding, upon a showing by the utility and finding by the Commission that continuation or modification is appropriate. As part of its submitted testimony in the base rate case, the Company will include a summary report on the status of certain HCEI initiatives. The RAM mechanism is designed to determine the change in annual utility base revenue levels, recognizing certain estimated changes in the utility's cost to provide service. If, through the application of this mechanism, it is determined that annual utility base revenues should be decreased or increased, then the RAM Revenue Adjustment will be applied within the Revenue Balancing Account Provision. The RAM Revenue Adjustment established for a RAM Period calendar year that is also a rate case test year shall terminate on the effective date of tariff rates that are implemented pursuant to a Commission Decision & Order for that test year, unless otherwise specified below.

Definitions

- a) The Annual Evaluation Date shall be the Date the Company will make its annual filing under this mechanism. The Annual Evaluation Date shall be no later than March 31st of each year, commencing March 31, 2011.
- b) The Evaluation Period is defined as the historical twelve month period ending December 31, of each calendar year preceding the Annual Evaluation Date. The Evaluation Period is used solely to determine achieved earnings and any sharing of such earnings above the Authorized Return on Equity.
- c) The RAM Period is defined as the calendar year containing the Annual Evaluation Date.
- d) The Labor Cost Escalation Rate shall be the applicable annual percentage general wage rate increase provided for in currently effective union labor agreements for use in escalating wage and salary Base Expenses for union employees to determine the RAM Revenue Adjustment for each RAM Period. In the event no union labor agreement exists for a RAM Period, the most recently effective annual general percentage increase rate shall apply.

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RATE ADJUSTMENT MECHANISM PROVISION

e) The Non-labor Cost Escalation Rate shall be the consensus estimated annual change in the Gross Domestic Product Price Indicator ("GDPPI") to escalate non-labor Base Expenses to determine the RAM Revenue Adjustment for each RAM Period. The GDPPI escalation rate shall be the consensus projection published by the Blue Chip Economic Indicators (Aspen Publishing) each February for the current RAM Period. In the event that the Blue Chip Economic Indicators forecast of the GDPPI is not available, the Consumer Advocate, Company, and other parties to the most recent rate case, with approval of the Commission, shall jointly select an alternative data source, or national economic index similar to GDPPI, as appropriate.

f) The annual Labor Productivity Offset shall be fixed at 0.76 percent (76/100 of one percent) and will be subtracted from the Labor Cost Escalation Rates applicable to Base Expenses to determine the authorized RAM Revenue Adjustment for each RAM Period.

g) The Base Expenses shall be the labor and non-labor operations and maintenance expense amounts approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case. Base Expenses shall not include any fuel, purchased power, IRP/DSM, pension, Other Post-Employment Benefits ("OPEB"), or Clean Energy/Renewable Energy Infrastructure or any costs that are subject to recovery through separate rate tracking mechanisms.

h) The Major Capital Projects shall be those capital investment projects that require an application before and approval by the Commission under the Commission's General Order No. 7, but excluding those projects included in the Clean Energy Infrastructure Surcharge.

i) The Baseline Capital Projects shall be the total amounts of capital investment completed and closed to Plant in Service, excluding amounts related to Major Capital Projects.

j) The Return on Investment shall be the overall weighted percentage rate of return on debt and equity capital approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case.

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Transmittal Letter dated May 1, 2013.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

k) The Authorized Return on Equity shall be the percentage rate of return on equity capital approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case.

l) The Exogenous Tax Changes shall be the changes in tax laws or regulations that are estimated to impact RBA Target Revenues by two million dollars (\$2,000,000) or more.

m) The Rate Base shall be the average net investment estimated for the RAM Period, including each of the elements of rate base reflected within the most recent rate case Decision & Order issued by the Commission, quantified in the manner prescribed in part (f) of Section 2 of the Rate Adjustment Mechanism.

n) The RAM Revenue Adjustment to be applied to determine effective Target Revenues will be the lesser of a) the RAM Revenue Adjustment Calculation or b) the RAM Revenue Adjustment Cap.

o) The RAM Revenue Adjustment Calculation shall be the change in the annual amount of revenue required for the utility to recover the sum of the O&M RAM Adjustment, Depreciation & Amortization RAM Adjustment, and Rate Base RAM - Return on Investment Adjustment, using the ratemaking conventions and calculations reflected within the most recent rate case Decision & Order issued by the Commission, quantified in the manner prescribed herein.

p) The RAM Revenue Adjustment Cap shall be based on the Target Revenues determined in accordance with the RBA and RAM tariffs as provided below.

q) The RAM Revenue Adjustment determined by this RAM Provision is to be recovered through the RBA Provision commencing on June 1 and over the subsequent 12 months after June 1.

r) Earnings Sharing Revenue Credits shall be the amounts to be returned to customers as credits through the Revenue Balancing Account ("RBA") Provision, so as to implement the earnings sharing percentages and procedures described herein, commencing on June 1 of the calendar year containing the Annual Evaluation Date and over the subsequent 12 months after June 1.

s) Major Capital Projects Credits shall be the amounts to be returned to customers through the Revenue Balancing Account Provision, to reduce a preceding year's RAM Revenue Adjustment (including interest at the rate described in the RBA Provision) for specific major capital projects that were not placed into service within the first nine months of the preceding RAM Period

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RATE ADJUSTMENT MECHANISM PROVISION (continued)

as expected. Because the Commission's review of the Major Capital Projects' actual costs incurred may not occur until the rate case after the RAM Revenue Adjustment for these Major Capital Projects is collected, Major Capital Projects Credits (including interest) will be returned to customers for the amount of Major Capital Projects costs that the Commission disallows for cost recovery. The Major Capital Projects Credits are to be refunded through the RBA Provision, commencing on June 1 of the calendar year containing the Annual Evaluation Date and over the subsequent 12 months after June 1.

t) Baseline Capital Projects Credits shall be the amounts to be returned to customers through the RBA Provision, to reduce a preceding year's RAM Revenue Adjustment (including interest at the rate described in the RBA Provision) for specific baseline capital projects that are disallowed by the Commission in a subsequent rate case if the disallowance reduces actual Baseline Capital Projects costs below the Baseline Capital Projects cost estimate derived using the method identified in part (f)ii. of Section 2 of the Rate Adjustment Mechanism below. Because the Commission's review of baseline capital projects may not occur until the rate case after such baseline capital projects are included in one or more RAM Revenue Adjustment filings, Baseline Capital Projects Credits shall be used to refund to customers any prior collections (i.e., Return on Investment on Rate Base and Depreciation, plus interest) relating to the amount of Baseline Capital Projects costs that the Commission subsequently disallows for cost recovery. The Baseline Capital Projects Credits are to be refunded through the RBA Provision, commencing on June 1 of the calendar year containing the Annual Evaluation Date and over the subsequent 12 months after June 1.

Rate Adjustment Mechanism

The Company shall file with the Commission, the Consumer Advocate and each party to the Company's most recent rate case proceeding, the schedules specified below:

Evaluation Period Earnings Sharing:

1. For the twelve month period ending December 31, of each year (the "Evaluation Period"), with the filing to be made no

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Transmittal Letter dated April 15, 2015.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

later than March 31, of the year following the conclusion of the Evaluation Period. The schedules will include the following:

- a) Company's recorded actual average net plant in service, accumulated deferred income taxes, inventory, working capital, and other rate base components. The schedules shall also show the utility's depreciation expense, operating and maintenance expense, income taxes, taxes other than income taxes, and other components of income for return, revenues, and capital structure, cost of debt, overall cost of capital, and return on common equity in the format set forth in the final order establishing the Company's latest effective rates.
- b) All applicable accounting and pro forma adjustments historically required in annual reports filed with the Commission.
- c) Pro-forma adjustments to remove from recorded revenues any out-of-period Earnings Sharing Revenue Credits or Major Capital Projects Credits recorded during the Evaluation Period, and
- d) A calculation comparing the achieved return on average common equity to the following earnings sharing grid, and indicating the Earnings Sharing Revenue Credit that should be recorded within the Revenue Balancing Account to effect the prescribed sharing of earnings above authorized levels:

ROE at or below the Authorized ROE	Retained entirely by shareholders - no customer credits
First 100 basis points (one percent) over Authorized ROE	25% share credit to customers
Next 200 basis points (two percent) over Authorized ROE	50% share credit to customers
All ROE exceeding 300 basis points (three percent) over Authorized ROE	90% share credit to customers

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Docket No. 2008-0083, Final Decision and Order, December 29, 2010.

Transmittal Letter dated January 24, 2011.

RATE ADJUSTMENT MECHANISM PROVISION (continued)
RAM Period RAM Revenue Adjustment Calculation:

- 2) The Company shall provide additional schedules indicating the following proposed RAM Revenue Adjustment Calculation applicable for the RAM Period using the methodology set forth below:
 - a) The O&M RAM Adjustment shall adjust Base Expenses segregated between labor and non-labor components and treated as follows:
 - i. The labor component shall be quantified for the RAM Period by application of the Labor Cost Escalation Rate, reduced to account for the Productivity Offset to labor expenses, including payroll taxes. The part of Base Expenses that represents labor costs for merit employees shall not be subject to application of the Labor Cost Escalation rate, nor be reduced by the Productivity Offset.
 - ii. The Non-labor components shall be quantified for the RAM Period by application of the Non-labor Escalation Rate to non-labor Base Expenses. Non-labor components shall exclude fuel, purchased power, pension/OPEBs, IRP/DSM or other rate adjustment provisions.
 - b) Depreciation and Amortization RAM Adjustment shall be quantified for the RAM Period by application of Commission-approved accrual rates and methods to the actual recorded Plant in Service balances at the end of the Evaluation Period.
 - c) The Rate Base RAM - Return on Investment Adjustment shall be determined by multiplying the applicable Pretax Rate of Return times the change in Rate Base. The Pretax Rate of Return shall include related income taxes on the equity components of the Return on Investment rate approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case. The quantification of Rate Base is specified in greater detail in part (f) of this Section 2.
 - d) The revenue impact of any Exogenous Tax Changes shall be included in the RAM Period calculation of the RAM Revenue Adjustment.
 - e) Revenue taxes shall be adjusted to account for the change in parts (a) through (e) of this Section 2.
 - f) Rate Base for the RAM Period shall be quantified as follows:

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Transmittal Letter dated April 15, 2015.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

- i. Plant in Service, Accumulated Depreciation, Accumulated Deferred Income Taxes and Contributions in Aid of Construction ("CIAC") shall be a two-point average of actual recorded balance sheet data at December 31 of the Evaluation Period, plus projected values at December 31 of the RAM Period determined as prescribed in parts (ii) through (v), below.
- ii. Plant in Service shall be quantified by adding to the recorded balances at December 31 of the Evaluation Period, the simple average of Baseline Capital Projects plant additions recorded in the immediately preceding five calendar years, plus the estimated cost of completed Major Capital Projects that are anticipated to be in service by September 30 of the RAM Period. The cost of Major Capital Projects shall be limited to the dollar amounts previously approved by the Commission, and shall be included at the level of recorded costs if recorded costs are lower than the budget amounts approved by the Commission, and the Commission has not yet reviewed the project costs in a rate case.
- iii. Accumulated Depreciation at December 31 of the RAM Period shall be quantified by increasing the recorded balances at December 31 of the Evaluation Period by the amount set forth in Section 2 part (b) above, consistent with rate-making treatment.
- iv. CIAC shall be quantified by adding to the recorded balance at December 31 of the Evaluation Period an estimate of the net change for the RAM Period. The net change shall be based on a simple average of cash and in-kind CIAC for the immediately preceding five calendar years for programs (i.e., numerous low cost capital projects) plus specific engineering estimates of any contributions for the Major Capital Projects anticipated to be in service by September 30 of the RAM Period.
- v. Accumulated Deferred Income Taxes shall be quantified by adding to the recorded balances at December 31 of the Evaluation Period the estimated tax effect of the depreciation timing difference (i.e., difference between book depreciation and tax depreciation) on the Baseline Capital Projects and Major Capital Projects added to rate base during the RAM Period.
- vi. Working Cash and all other elements of rate base not specifically addressed above shall be fixed at the dollar amount approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case. These elements of rate base shall be held constant until revised by a future Commission Decision & Order in a general rate case.

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RATE ADJUSTMENT MECHANISM PROVISION (continued)

g) See also Settlement Agreement section below.

RAM REVENUE ADJUSTMENT CAP

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 final rate case decision. The RAM Basis shall be adjusted 1) as described below in the determination of the 2014 Rate Base RAM - Return on Investment Adjustment and the 2014 Depreciation and Amortization RAM Adjustment, and 2) 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 Revenue Adjustment Cap.

The RAM Revenue Adjustment Cap shall be calculated as the RAM Basis, multiplied by the cumulative annually compounded increase(s) in the GDPPI for the years between the rate case calendar test year that established the RAM Basis and the RAM Period, adjusted to include applicable revenue taxes.

The RAM Revenue Adjustment Cap will apply to the entire RAM Revenue Adjustment, which includes the O&M RAM Adjustment, Depreciation and Amortization RAM Adjustment, and Rate Base RAM - Return on Investment Adjustment.

Exception to the calculation of the RAM Revenue Adjustment Cap:

For the calculation of the RAM Revenue Adjustment Cap for the 2015 RAM Revenue Adjustment and for each subsequent year's calculation of RAM Revenue Adjustment until the issuance of a final decision and order in the next rate case, the Target Revenues that will serve as the RAM Basis will be the 2014 annualized target revenues adjusted as described below. The 2014 RAM Revenue Adjustment used to determine the adjusted 2014 target revenues will be adjusted to use recorded 2014 end-of-year actuals for plant in service, accumulated depreciation and amortization, CIAC and accumulated deferred income taxes in the determination of the 2014 Rate Base RAM - Return on Investment Adjustment. For the determination of the 2014 Depreciation and Amortization RAM Adjustment, the Company applies the Commission-approved accrual rates and methods to the 2014 end of year balances calculated above. There is no impact to the O&M RAM Adjustment. The RAM Basis 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 order by the Commission, as described above.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated April 15, 2015.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

The RAM Revenue Adjustment Cap for year 2015 and for each subsequent year until the issuance of a final decision and order in the next rate case shall be calculated as the RAM Basis, multiplied by the cumulative annually compounded increase(s) in the GDPPI for the years between 2014 and the RAM Period, adjusted to include applicable revenue taxes, plus the adjusted calculation of the 2014 RAM Revenue Adjustment described above.

Evaluation Procedures

Complete, indexed workpapers and electronic files supporting the RAM Adjustment, Earnings Sharing Revenue Credits, and Major and Baseline Capital Projects Credits Schedules 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, coincident with the Annual Evaluation Date 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. The Consumer Advocate, Other Rate Case Parties, and other interested persons may propose any adjustments determined to be required to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

The RAM Revenue Adjustment, and any prior year RAM Revenue Adjustments, shall be recalculated for errors in prior calculations and for subsequent Commission orders that change the basis of prior calculations. The effect of such changes to the RAM Revenue Adjustment shall be implemented as described in the Revenue Balancing Account Provision.

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 the June 1 effective date of the RBA Rate Adjustment described in the RBA Provision tariff, the RBA Rate Adjustment incorporating the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, and Major and Baseline Capital Projects Credits shall go into effect on the June 1 effective date, and the Commission shall confirm the commencement of the RBA Rate Adjustment in its monthly Tariff Order.

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 filing pursuant to this tariff. The notice to customers shall include the following information:

HAWAIIAN ELECTRIC COMPANY, INC.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

- 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.

PROVISION FOR RECOVERY OF MAJOR PROJECTS AND CONSOLIDATED BASELINE PROJECTS

The Company may apply to the Commission for approval of recovery of revenues for Major Projects outside of and in addition to the capped RAM revenues - either through the RAM, through the Renewable Energy Infrastructure Cost Recovery Provision ("REIP"), or through another adjustment mechanism. Approval for such recovery will be made on a case by case basis. Any such application for recovery of revenues shall identify and support the specific means and extent of proposed cost recovery.

Eligibility for recovery of revenues through the RAM in excess of the RAM Revenue Adjustment Cap or through an adjustment mechanism outside of the RAM will be restricted to revenues for projects that the Company demonstrates to be prudent and reasonable, to provide customer value, to enhance to affordability of energy services, and which are not explicitly or implicitly included in otherwise effective utility target revenues or other effective means of revenue recovery.

The Company may use a programmatic approach to categorizing and consolidating related baseline projects for consideration as Major Projects. For example, multiple baseline projects that serve a related purpose or are part of a specific program may be consolidated as a Major Project for purposes of application and review.

SETTLEMENT AGREEMENT

The provisions in this section are for the sole and limited purpose of implementing the *Stipulated Settlement Agreement between the Hawaiian Electric Companies and the Division of Consumer Advocacy regarding Certain Regulatory Matters*, filed in Docket No. 2008-0083, which the Commission approved in Order No. 31126, issued on March 19, 2013.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated April 15, 2015.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

The Company will include in the Rate Base RAM - Return on Investment Adjustment and the Depreciation and Amortization RAM Expense Adjustment, in 2013 and subsequent years, the recoverable costs of the Campbell Industrial Park Combustion Turbine Unit 1 ("CIP CT-1") and the Customer Information System ("CIS") projects, net of the Stipulated and Commission approved project cost write-downs and as otherwise provided for in the Stipulated Settlement Agreement. Recovery of the CIS costs through the RAM Revenue Adjustment is for the sole purpose of this settlement agreement and does not constitute a precedent for the recovery of any other software or regulatory asset deferred costs through the RAM Revenue Adjustment.

In accordance with the Stipulated Settlement Agreement and for only the 2014, 2015, and 2016 RAM Periods, Hawaiian Electric will be allowed to record the 2014, 2015, and 2016 RAM Revenue Adjustments, effective January 1 through December 31 of the calendar year (once the Company is able to determine the amount). The Company shall be allowed to collect the accrued RAM Revenue Adjustment amounts, pursuant to this provision, through the RBA Rate Adjustment from June 1 of each year to May 31 of the following year.

When the Company implements a Commission Decision & Order for any rate case test year within 2014, 2015, or 2016, the accrual of RAM Revenue Adjustment amounts for that test year, if still in progress, shall terminate. The Company will adjust the RBA Rate Adjustment to collect any accrued but unrecovered RAM Revenue Adjustment amounts for that year.

COMMISSION'S AUTHORITY

The Commission may suspend any or all parts of this Rate Adjustment Mechanism Provision. Such suspension shall remain in place until removed by Commission Order.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated April 15, 2015.

ATTACHMENT 1A

Superseding Revised Sheet No. 50D
Effective ~~June 1, 2014~~ October 1, 2014
~~October 1, 2014~~

REVISED SHEET NO. 50D
Effective June 1, 2015

RATE SCHEDULES (continued)

<u>Sheet</u>	<u>Schedule</u>	<u>Date Effective</u>	<u>Character of Service</u>
87	TOU-R	September 1, 2012	Residential Time-Of-Use Service
88	TOU-R	September 1, 2012	Residential Time-Of-Use Service
89	Residential TOU EV	October 1, 2014	Residential Time-Of-Use Service with Electric Vehicle Pilot
89A	Residential TOU EV	October 1, 2014	Residential Time-Of-Use Service with Electric Vehicle Pilot
89B	Residential TOU EV	October 1, 2014	Residential Time-Of-Use Service with Electric Vehicle Pilot
90	Residential EV-R	October 1, 2014	Residential Electric Vehicle Charging Service Pilot
90A	Residential EV-R	October 1, 2014	Residential Electric Vehicle Charging Service Pilot
90B	Residential EV-R	October 1, 2014	Residential Electric Vehicle Charging Service Pilot
91	Commercial EV-C	October 1, 2014	Commercial Electric Vehicle Charging Service Pilot
91A	Commercial EV-C	October 1, 2014	Commercial Electric Vehicle Charging Service Pilot
91B	Commercial EV-C	October 1, 2014	Commercial Electric Vehicle Charging Service Pilot
92	"RBA"	June 1, 2013	Revenue Balancing Account Provision
92A	"RBA"	January 1, 2014	Revenue Balancing Account Provision
92B	"RBA"	March 1, 2014	Revenue Balancing Account Provision
92C	"RBA"	June 1, 2014 <u>2015</u>	Revenue Balancing Account Provision

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated ~~September 30, 2014~~ April 15, 2015.

Superseding Sheet No. 50E

REVISED SHEET NO. 50E

Effective ~~April 1, 2015~~ ~~February~~ ~~March 1, 2015~~
~~1, 2015~~ ~~March~~ ~~April 1, 2015~~

Effective June

Sheet	Schedule	RATE SCHEDULES (continued)	
		<u>Date Effective</u>	<u>Character of Service</u>
92D	"RBA"	June 1, 2013	Revenue Balancing Account Provision
93	"RAM"	June 1, 2013	Rate Adjustment Mechanism Provision
93A	"RAM"	June 1, 2013	Rate Adjustment Mechanism Provision
93B	"RAM"	March 30, 2014 June 1, 2015	Rate Adjustment Mechanism Provision
93C	"RAM"	March 30, 2014	Rate Adjustment Mechanism Provision
93D	"RAM"	March 1, 2011	Rate Adjustment Mechanism Provision
93E	"RAM"	March 30, 2014 June 1, 2015	Rate Adjustment Mechanism Provision
93F	"RAM"	June 1, 2013	Rate Adjustment Mechanism Provision
93G	"RAM"	March 30, 2014 June 1, 2015	Rate Adjustment Mechanism Provision
93H	"RAM"	June 1, 2013 2015	Rate Adjustment Mechanism Provision
93I	"RAM"	June 1, 2015	Rate Adjustment Mechanism Provision
93J	"RAM"	June 1, 2015	Rate Adjustment Mechanism Provision
94	"PPAC"	March <u>April 1, 2015</u>	Purchased Power Adjustment Clause
94A	"PPAC"	March <u>April 1, 2015</u>	Purchased Power Adjustment Clause
94B	"PPAC"	March <u>April 1, 2015</u>	Purchased Power Adjustment Clause
95	EV-F	July 4, 2013	Commercial Public Electric Vehicle Charging Facility Service Pilot
95A	EV-F	July 4, 2013	Commercial Public Electric Vehicle Charging Facility Service Pilot
95B	EV-F	July 4, 2013	Commercial Public Electric Vehicle Charging Facility Service Pilot
96	EV-U	July 4, 2013	Commercial Public Electric Vehicle Charging Service

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter Dated ~~February~~ ~~March 20, 2015~~ April 15, 2015.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

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.

Complete, indexed workpapers and electronic files supporting the previous year-end balance in the RBA 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, coincident with the Annual Evaluation Date 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. The Consumer Advocate, Other Rate Case Parties, and other interested persons may propose any adjustments determined to be required to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

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.

	Effective	June 1, 2014-2015	to May 31, 2015 <u>2016</u>
	RBA Rate Adjustment		
	All Rate Schedules	2.1269- <u>2201</u> ¢/kWh

F. NOTICE

HAWAIIAN ELECTRIC COMPANY, INC.

| Transmittal Letter dated ~~May 22, 2014~~ April 15, 2015.

RATE ADJUSTMENT MECHANISM PROVISION

Rate Adjustment Mechanism ("RAM") Provision

Purpose

This mechanism is subject to review and continuation, termination or modification in the utility's next base rate case proceeding, upon a showing by the utility and finding by the Commission that continuation or modification is appropriate. As part of its submitted testimony in the base rate case, the Company will include a summary report on the status of certain HCEI initiatives. The RAM mechanism is designed to determine the change in annual utility base revenue levels, recognizing certain estimated changes in the utility's cost to provide service. If, through the application of this mechanism, it is determined that annual utility base revenues should be decreased or increased, then the RAM Revenue Adjustment will be applied within the Revenue Balancing Account Provision. The RAM Revenue Adjustment established for a RAM Period calendar year that is also a rate case test year shall terminate on the effective date of tariff rates that are implemented pursuant to a Commission Decision & Order for that test year, unless otherwise specified below.

Definitions

- a) The Annual Evaluation Date shall be the Date the Company will make its annual filing under this mechanism. The Annual Evaluation Date shall be no later than March 31st of each year, commencing March 31, 2011.
- b) The Evaluation Period is defined as the historical twelve month period ending December 31, of each calendar year preceding the Annual Evaluation Date. The Evaluation Period is used solely to determine achieved earnings and any sharing of such earnings above the Authorized Return on Equity.
- c) The RAM Period is defined as the calendar year containing the Annual Evaluation Date.
- d) The Labor Cost Escalation Rate shall be the applicable annual percentage general wage rate increase provided for in currently effective union labor agreements for use in escalating wage and salary Base Expenses for union employees to determine the RAM Revenue Adjustment for each RAM Period. In the event no union labor agreement exists for a RAM Period, the most recently effective annual general percentage increase rate shall apply.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 1, 2013.

RATE ADJUSTMENT MECHANISM PROVISION

e) The Non-labor Cost Escalation Rate shall be the consensus estimated annual change in the Gross Domestic Product Price Indicator ("GDPPI") to escalate non-labor Base Expenses to determine the RAM Revenue Adjustment for each RAM Period. The GDPPI escalation rate shall be the consensus projection published by the Blue Chip Economic Indicators (Aspen Publishing) each February for the current RAM Period. In the event that the Blue Chip Economic Indicators forecast of the GDPPI is not available, the Consumer Advocate, Company, and other parties to the most recent rate case, with approval of the Commission, shall jointly select an alternative data source, or national economic index similar to GDPPI, as appropriate.

f) The annual Labor Productivity Offset shall be fixed at 0.76 percent (76/100 of one percent) and will be subtracted from the Labor Cost Escalation Rates applicable to Base Expenses to determine the authorized RAM Revenue Adjustment for each RAM Period.

g) The Base Expenses shall be the labor and non-labor operations and maintenance expense amounts approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case. Base Expenses shall not include any fuel, purchased power, IRP/DSM, pension, Other Post-Employment Benefits ("OPEB"), or Clean Energy/Renewable Energy Infrastructure or any costs that are subject to recovery through separate rate tracking mechanisms.

h) The Major Capital Projects shall be those capital investment projects that require an application before and approval by the Commission under the Commission's General Order No. 7, but excluding those projects included in the Clean Energy Infrastructure Surcharge.

i) The Baseline Capital Projects shall be the total amounts of capital investment completed and closed to Plant in Service, excluding amounts related to Major Capital Projects.

j) The Return on Investment shall be the overall weighted percentage rate of return on debt and equity capital approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated May 1, 2013.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

k) The Authorized Return on Equity shall be the percentage rate of return on equity capital approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case.

l) The Exogenous Tax Changes shall be the changes in tax laws or regulations that are estimated to impact RBA Target Revenues by two million dollars (\$2,000,000) or more.

m) The Rate Base shall be the average net investment estimated for the RAM Period, including each of the elements of rate base reflected within the most recent rate case Decision & Order issued by the Commission, quantified in the manner prescribed in part (gf) of Section 2 of the Rate Adjustment Mechanism.

n) The RAM Revenue Adjustment to be applied to determine effective Target Revenues will be the lesser of a) the RAM Revenue Adjustment Calculation or b) the RAM Revenue Adjustment Cap.

no) The RAM Revenue Adjustment Calculation shall be the change in the annual amount of revenue required for the utility to recover the sum of the O&M RAM Adjustment, Depreciation & Amortization RAM Adjustment, and Rate Base RAM - Return on Investment Adjustment, using the ratemaking conventions and calculations reflected within the most recent rate case Decision & Order issued by the Commission, quantified in the manner prescribed herein.

p) The RAM Revenue Adjustment Cap shall be based on the Target Revenues determined in accordance with the RBA and RAM tariffs as provided below.

eg) The RAM Revenue Adjustment determined by this RAM Provision is to be recovered through the RBA Provision commencing on June 1 and over the subsequent 12 months after June 1.

pr) Earnings Sharing Revenue Credits shall be the amounts to be returned to customers as credits through the Revenue Balancing Account ("RBA") Provision, so as to implement the earnings sharing percentages and procedures described herein, commencing on June 1 of the calendar year containing the Annual Evaluation Date and over the subsequent 12 months after June 1.

HAWAIIAN ELECTRIC COMPANY, INC.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

~~qs~~) Major Capital Projects Credits shall be the amounts to be returned to customers through the Revenue Balancing Account Provision, to reduce a preceding year's RAM Revenue Adjustment (including interest at the rate described in the RBA Provision) for specific major capital projects that were not placed into service within the first nine months of the preceding RAM Period as expected. Because the Commission's review of the Major Capital Projects' actual costs incurred may not occur until the rate case after the RAM Revenue Adjustment for these Major Capital Projects is collected, Major Capital Projects Credits (including interest) will be returned to customers for the amount of Major Capital Projects costs that the Commission disallows for cost recovery. The Major Capital Projects Credits are to be refunded through the RBA Provision, commencing on June 1 of the calendar year containing the Annual Evaluation Date and over the subsequent 12 months after June 1.

~~qt~~) Baseline Capital Projects Credits shall be the amounts to be returned to customers through the RBA Provision, to reduce a preceding year's RAM Revenue Adjustment (including interest at the rate described in the RBA Provision) for specific baseline capital projects that are disallowed by the Commission in a subsequent rate case if the disallowance reduces actual Baseline Capital Projects costs below the Baseline Capital Projects cost estimate derived using the method identified in part ~~qf~~ii. of Section 2 of the Rate Adjustment Mechanism below. Because the Commission's review of baseline capital projects may not occur until the rate case after such baseline capital projects are included in one or more RAM Revenue Adjustment filings, Baseline Capital Projects Credits shall be used to refund to customers any prior collections (i.e., Return on Investment on Rate Base and Depreciation, plus interest) relating to the amount of Baseline Capital Projects costs that the Commission subsequently disallows for cost recovery. The Baseline Capital Projects Credits are to be refunded through the RBA Provision, commencing on June 1 of the calendar year containing the Annual Evaluation Date and over the subsequent 12 months after June 1.

Rate Adjustment Mechanism

The Company shall file with the Commission, the Consumer Advocate and each party to the Company's most recent rate case proceeding, the schedules specified below:

Evaluation Period Earnings Sharing:

1. For the twelve month period ending December 31, of each year (the "Evaluation Period"), with the filing to be made no

HAWAIIAN ELECTRIC COMPANY, INC.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

later than March 31, of the year following the conclusion of the Evaluation Period. The schedules will include the following:

- a) Company's recorded actual average net plant in service, accumulated deferred income taxes, inventory, working capital, and other rate base components. The schedules shall also show the utility's depreciation expense, operating and maintenance expense, income taxes, taxes other than income taxes, and other components of income for return, revenues, and capital structure, cost of debt, overall cost of capital, and return on common equity in the format set forth in the final order establishing the Company's latest effective rates.
- b) All applicable accounting and pro forma adjustments historically required in annual reports filed with the Commission.
- c) Pro-forma adjustments to remove from recorded revenues any out-of-period Earnings Sharing Revenue Credits or Major Capital Projects Credits recorded during the Evaluation Period, and
- d) A calculation comparing the achieved return on average common equity to the following earnings sharing grid, and indicating the Earnings Sharing Revenue Credit that should be recorded within the Revenue Balancing Account to effect the prescribed sharing of earnings above authorized levels:

ROE at or below the Authorized ROE	Retained entirely by shareholders - no customer credits
First 100 basis points (one percent) over Authorized ROE	25% share credit to customers
Next 200 basis points (two percent) over Authorized ROE	50% share credit to customers
All ROE exceeding 300 basis points (three percent) over Authorized ROE	90% share credit to customers

HAWAIIAN ELECTRIC COMPANY, INC.

Docket No. 2008-0083, Final Decision and Order, December 29, 2010.

Transmittal Letter dated January 24, 2011.

RATE ADJUSTMENT MECHANISM PROVISION (continued)
RAM Period RAM Revenue Adjustment Calculation:

2) The Company shall provide additional schedules indicating the following proposed RAM Revenue Adjustment Calculation ~~ealeulations~~ applicable for the RAM Period using the methodology set forth below:

- a) The O&M RAM Adjustment shall adjust Base Expenses segregated between labor and non-labor components and treated as follows:
 - i. The labor component shall be quantified for the RAM Period by application of the Labor Cost Escalation Rate, reduced to account for the Productivity Offset to labor expenses, including payroll taxes. The part of Base Expenses that represents labor costs for merit employees shall not be subject to application of the Labor Cost Escalation rate, nor be reduced by the Productivity Offset.
 - ii. The Non-labor components shall be quantified for the RAM Period by application of the Non-labor Escalation Rate to non-labor Base Expenses. Non-labor components shall exclude fuel, purchased power, pension/OPEBs, IRP/DSM or other rate adjustment provisions.
- b) Depreciation and Amortization RAM Adjustment shall be quantified for the RAM Period by application of Commission-approved accrual rates and methods to the actual recorded Plant in Service balances at the end of the Evaluation Period.
- ~~e) The Rate Base RAM - Return on Investment Adjustment shall be equal to the prior RAM Period's Rate Base RAM - Return on Investment Calculation plus 90% of the amount that the current RAM Period's Rate Base RAM - Return on Investment Calculation exceeds the prior RAM Period's Rate Base RAM - Return on Investment Calculation. If the prior RAM Period is a rate case test year, then the Rate Base RAM - Return on Investment Adjustment shall be equal to 90% of the current RAM Period's Rate Base RAM - Return on Investment Calculation.~~
- ~~d) c) The Rate Base RAM - Return on Investment Calculation Adjustment shall be determined by multiplying the applicable Pretax Rate of Return times the change in Rate Base. The Pretax Rate of Return shall include related income taxes on the equity components of the Return on Investment rate approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case. The quantification of Rate Base is specified in greater detail in part (g) of this Section 2.~~

HAWAIIAN ELECTRIC COMPANY, INC.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

- | e) d) The revenue impact of any Exogenous Tax Changes shall be included in the RAM Period calculation of the RAM Revenue Adjustment.
- | f) e) Revenue taxes shall be adjusted to account for the change in parts (a) through (e) of this Section 2.
- | f) Rate Base for the RAM Period shall be quantified as follows:

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated February 24, 2012.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

- i. Plant in Service, Accumulated Depreciation, Accumulated Deferred Income Taxes and Contributions in Aid of Construction ("CIAC") shall be a two-point average of actual recorded balance sheet data at December 31 of the Evaluation Period, plus projected values at December 31 of the RAM Period determined as prescribed in parts (ii) through (v), below.
- ii. Plant in Service shall be quantified by adding to the recorded balances at December 31 of the Evaluation Period, the simple average of Baseline Capital Projects plant additions recorded in the immediately preceding five calendar years, plus the estimated cost of completed Major Capital Projects that are anticipated to be in service by September 30 of the RAM Period. The cost of Major Capital Projects shall be limited to the dollar amounts previously approved by the Commission, and shall be included at the level of recorded costs if recorded costs are lower than the budget amounts approved by the Commission, and the Commission has not yet reviewed the project costs in a rate case.
- iii. Accumulated Depreciation at December 31 of the RAM Period shall be quantified by increasing the recorded balances at December 31 of the Evaluation Period by the amount set forth in Section 2 part (b) above, consistent with rate-making treatment.
- iv. CIAC shall be quantified by adding to the recorded balance at December 31 of the Evaluation Period an estimate of the net change for the RAM Period. The net change shall be based on a simple average of cash and in-kind CIAC for the immediately preceding five calendar years for programs (i.e., numerous low cost capital projects) plus specific engineering estimates of any contributions for the Major Capital Projects anticipated to be in service by September 30 of the RAM Period.
- v. Accumulated Deferred Income Taxes shall be quantified by adding to the recorded balances at December 31 of the Evaluation Period the estimated tax effect of the depreciation timing difference (i.e., difference between book depreciation and tax depreciation) on the Baseline Capital Projects and Major Capital Projects added to rate base during the RAM Period.
- vi. Working Cash and all other elements of rate base not specifically addressed above shall be fixed at the dollar amount approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case. These elements of rate base shall be held constant until revised by a future Commission Decision & Order in a general rate case.

HAWAIIAN ELECTRIC COMPANY, INC.

Superseding SHEET NO. 93G
Effective ~~March 28, 2012~~ June 1, 2013
~~2015 June 1, 2013~~

REVISED SHEET NO. 93G
Effective June 1,

RATE ADJUSTMENT MECHANISM PROVISION (continued)

gh) See also Settlement Agreement section below.

RAM REVENUE ADJUSTMENT CAP

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 final rate case decision. The RAM Basis shall be adjusted 1) as described below in the determination of the 2014 Rate Base RAM - Return on Investment Adjustment and the 2014 Depreciation and Amortization RAM Adjustment, and 2) 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 Revenue Adjustment Cap.

The RAM Revenue Adjustment Cap shall be calculated as the RAM Basis, multiplied by the cumulative annually compounded increase(s) in the GDPPI for the years between the rate case calendar test year that established the RAM Basis and the RAM Period, adjusted to include applicable revenue taxes.

The RAM Revenue Adjustment Cap will apply to the entire RAM Revenue Adjustment, which includes the O&M RAM Adjustment, Depreciation and Amortization RAM Adjustment, and Rate Base RAM - Return on Investment Adjustment.

Exception to the calculation of the RAM Revenue Adjustment Cap:

For the calculation of the RAM Revenue Adjustment Cap for the 2015 RAM Revenue Adjustment and for each subsequent year's calculation of RAM Revenue Adjustment until the issuance of a final decision and order in the next rate case, the Target Revenues that will serve as the RAM Basis will be the 2014 annualized target revenues adjusted as described below. The 2014 RAM Revenue Adjustment used to determine the adjusted 2014 target revenues will be adjusted to use recorded 2014 end-of-year actuals for plant in service, accumulated depreciation and amortization, CIAC and accumulated deferred income taxes in the determination of the 2014 Rate Base RAM - Return on Investment Adjustment. For the determination of the 2014 Depreciation and Amortization RAM Adjustment, the Company applies the Commission-approved accrual rates and methods to the 2014 end of year balances calculated above. There is no impact to the O&M RAM Adjustment. The RAM Basis 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 order by the Commission, as described above.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated ~~May 1, 2013~~ April 15, 2015.

Superseding SHEET NO. 93G93H
Effective ~~March 28, 2012~~ June 1, 2013
~~2015~~ June 1, 2013

REVISED SHEET NO. 93G93H
Effective June 1,

RATE ADJUSTMENT MECHANISM PROVISION (continued)

The RAM Revenue Adjustment Cap for year 2015 and for each subsequent year until the issuance of a final decision and order in the next rate case shall be calculated as the RAM Basis, multiplied by the cumulative annually compounded increase(s) in the GDPPI for the years between 2014 and the RAM Period, adjusted to include applicable revenue taxes, plus the adjusted calculation of the 2014 RAM Revenue Adjustment described above.

Evaluation Procedures

Complete, indexed workpapers and electronic files supporting the RAM Adjustment, Earnings Sharing Revenue Credits, and Major and Baseline Capital Projects Credits Schedules 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, coincident with the Annual Evaluation Date 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. The Consumer Advocate, Other Rate Case Parties, and other interested persons may propose any adjustments determined to be required to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

The RAM Revenue Adjustment, and any prior year RAM Revenue Adjustments, shall be recalculated for errors in prior calculations and for subsequent Commission orders that change the basis of prior calculations. The effect of such changes to the RAM Revenue Adjustment shall be implemented as described in the Revenue Balancing Account Provision.

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 the June 1 effective date of the RBA Rate Adjustment described in the RBA Provision tariff, the RBA Rate Adjustment incorporating the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, and Major and Baseline Capital Projects Credits shall go into effect on the June 1 effective date, and the Commission shall confirm the commencement of the RBA Rate Adjustment in its monthly Tariff Order.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated ~~May 1, 2013~~ April 15, 2015.

Superseding SHEET NO. 93G
Effective June 1, 2013

REVISED SHEET NO. 93G
Effective March 30, 2014

RATE ADJUSTMENT MECHANISM PROVISION (continued)

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 filing pursuant to this tariff. The notice to customers shall include the following information:

HAWAIIAN ELECTRIC COMPANY, INC.

Decision and Order No. 31908; Filed on February 7, 2014.
Transmittal Letter dated February 28, 2014.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

- 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.

PROVISION FOR RECOVERY OF MAJOR PROJECTS AND CONSOLIDATED
BASELINE PROJECTS

The Company may apply to the Commission for approval of recovery of revenues for Major Projects outside of and in addition to the capped RAM revenues - either through the RAM, through the Renewable Energy Infrastructure Cost Recovery Provision ("REIP"), or through another adjustment mechanism. Approval for such recovery will be made on a case by case basis. Any such application for recovery of revenues shall identify and support the specific means and extent of proposed cost recovery.

Eligibility for recovery of revenues through the RAM in excess of the RAM Revenue Adjustment Cap or through an adjustment mechanism outside of the RAM will be restricted to revenues for projects that the Company demonstrates to be prudent and reasonable, to provide customer value, to enhance to affordability of energy services, and which are not explicitly or implicitly included in otherwise effective utility target revenues or other effective means of revenue recovery.

The Company may use a programmatic approach to categorizing and consolidating related baseline projects for consideration as Major Projects. For example, multiple baseline projects that serve a related purpose or are part of a specific program may be consolidated as a Major Project for purposes of application and review.

SETTLEMENT AGREEMENT

The provisions in this section are for the sole and limited purpose of implementing the *Stipulated Settlement Agreement between the Hawaiian Electric Companies and the Division of Consumer Advocacy regarding Certain Regulatory Matters*, filed in Docket No. 2008-0083, which the Commission approved in Order No. 31126, issued on March 19, 2013.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated ~~May 1, 2013~~ April 15, 2015.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

The Company will include in the Rate Base RAM - Return on Investment Adjustment and the Depreciation and Amortization RAM Expense Adjustment, in 2013 and subsequent years, the recoverable costs of the Campbell Industrial Park Combustion Turbine Unit 1 ("CIP CT-1") and the Customer Information System ("CIS") projects, net of the Stipulated and Commission approved project cost write-downs and as otherwise provided for in the Stipulated Settlement Agreement. Recovery of the CIS costs through the RAM Revenue Adjustment is for the sole purpose of this settlement agreement and does not constitute a precedent for the recovery of any other software or regulatory asset deferred costs through the RAM Revenue Adjustment.

In accordance with the Stipulated Settlement Agreement and for only the 2014, 2015, and 2016 RAM Periods, Hawaiian Electric will be allowed to record the 2014, 2015, and 2016 RAM Revenue Adjustments, effective January 1 through December 31 of the calendar year (once the Company is able to determine the amount). The Company shall be allowed to collect the accrued RAM Revenue Adjustment amounts, pursuant to this provision, through the RBA Rate Adjustment from June 1 of each year to May 31 of the following year.

When the Company implements a Commission Decision & Order for any rate case test year within 2014, 2015, or 2016, the accrual of RAM Revenue Adjustment amounts for that test year, if still in progress, shall terminate. The Company will adjust the RBA Rate Adjustment to collect any accrued but unrecovered RAM Revenue Adjustment amounts for that year.

COMMISSION'S AUTHORITY

The Commission may suspend any or all parts of this Rate Adjustment Mechanism Provision. Such suspension shall remain in place until removed by Commission Order.

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated ~~May 1, 2013~~ April 15, 2015.

Attachment 2 – List of Schedules and Workpapers

Schedule A (REVISED)	HECO-WP-A-001
Schedule A1 (NEW)	HECO-WP-B-001
Schedule B	HECO-WP-B-002
Schedule B1 (REVISED)	HECO-WP-B-003
Schedule B2	HECO-WP-B-004
Schedule C	HECO-WP-B-005
Schedule C1	HECO-WP-B-006
Schedule C2	HECO-WP-B-007
Schedule D	HECO-WP-B-008
Schedule D1	HECO-WP-B-009
Schedule D2	HECO-WP-C-001
Schedule D3	HECO-WP-C-002
Schedule D4	HECO-WP-C-003
Schedule E	HECO-WP-D1-001A
Schedule F	HECO-WP-D1-001B
Schedule F1	HECO-WP-D2-001
Schedule F2	HECO-WP-D2-002
Schedule G	HECO-WP-D3-001
Schedule G1	HECO-WP-D4-001
Schedule G2	HECO-WP-D4-002
Schedule G3	HECO-WP-D4-003
Schedule H	HECO-WP-D4-004
Schedule I	HECO-WP-E-001
Schedule J (NEW)	HECO-WP-F-001
Schedule K (NEW)	HECO-WP-F1-001
Schedule K1 (NEW)	HECO-WP-F1-002
	HECO-WP-G2-001
	HECO-WP-H-001
	HECO-WP-H-002
	HECO-WP-H-003
	HECO-WP-H-004
	HECO-WP-H-005
	HECO-WP-H-006
	HECO-WP-H-007
	HECO-WP-J-001 (NEW)
	HECO-WP-J-002 (NEW)
	HECO-WP-K1-001 (NEW)
	HECO-WP-K1-002 (NEW)

HAWAIIAN ELECTRIC COMPANY, INC.
DECOUPLING CALCULATION WORKBOOK
DETERMINATION OF 2015 REVENUE BALANCING ACCOUNT RATE ADJUSTMENT

Line No.	Description (a)	Reference (b)	Amount (c)	Rate Amount (d)
<u>RECONCILIATION OF RBA BALANCE:</u>				
1	RBA Prior calendar year-end balance	Schedule B	\$ 57,804,048	
2	Revenue Tax Factor	Schedule C	1.0975	
3	Revenue for RBA Balance			\$ 63,439,943
<u>RATE ADJUSTMENT MECHANISM "RAM" AMOUNT:</u>				
4	Total RAM Revenue Adjustment Allowed (Note 2)	Schedule A1		\$ 89,586,893
5	<u>EARNINGS SHARING REVENUE CREDITS - 2014 ROE:</u>	Schedule H		\$ -
6	<u>PUC-ORDERED MAJOR OR BASELINE CAPITAL PROJECTS CREDITS:</u>	Schedule I		\$ -
7	TOTAL RBA REVENUE ADJUSTMENT - Revised	Sum Col. (d)		\$ 153,026,836
8	GWH SALES VOLUME ESTIMATE JUNE 2015 - MAY 2016 (see HECO-WP-A-001)			6,892.800
9	RBA RATE ADJUSTMENT - cents per kWh - Revised	Note (1)		2.2201
10	MONTHLY BILL IMPACT @ 600 KWH - Revised			\$ 13.32

Note (1): 2015 RBA Rate Adjustment Breakdown

	Col. (d)	Rate Adjustment cents per kWh	Percentage Share
RBA Balance	\$ 63,439,943	0.92037985	41.4567%
RAM Amount	\$ 89,586,893	1.29971700	58.5433%
Earnings Sharing Revenue Credits	\$ -	0.00000000	0.0000%
Major or Baseline Capital Projects Credits	\$ -	0.00000000	0.0000%
	\$ 153,026,836	2.22009685	100.0000%

Note (2): Total RAM Revenue Adjustment Allowed is the sum of the RAM Cap + Exceptional and Other Projects. See Decision and 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.

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

Line No.	Description (a)	Reference		
RAM REVENUE ADJUSTMENT DETERMINED ACCORDING TO EXISTING TARIFFS AND PROCEDURES				
1	O&M RAM	3/31/15 Decoupling Filing, Sch A	\$	14,746,949
2	Rate Base RAM - Return on Investment (Note 2)	3/31/15 Decoupling Filing, Sch A - Note 2	\$	49,227,808
3	Depreciation & Amortization RAM Expense	3/31/15 Decoupling Filing, Sch A	\$	31,142,599
4	Total Adjusted RAM Revenue Adjustment		\$	95,117,357
RAM REVENUE ADJUSTMENT CAP				
5	RAM Cap for 2015 RAM Revenue Adjustment	Schedule J	\$	85,787,636
6	Plus: Exceptional and Other Matters	Schedule K	\$	3,799,257
7	2015 Cap - Total Adjusted RAM Revenue Adjustment (Note 3)		\$	89,586,893
8	Total RAM Revenue Adjustment Allowed (Note 1)	Lesser of Line 4 or Line 7	\$	89,586,893
				To Sch A, line 4

- Note 1 RAM Revenue Adjustment Allowed:
See Decision and 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 See Decision and Order No. 32735, filed March 31, 2015, paragraph 79, page 82:
"The amendments to the RAM implemented by this Order replace and terminate the previous interim limitations on RAM year Rate Base RAM adjustments required pursuant to Order No. 31908,"
and paragraph 3, page 6:
"The 90% adjustment shall be removed in favor of the GDPPI cap."
Therefore, the 10% reduction pursuant to Order No. 31908 has been eliminated from the calculation of 2014's Rate Base RAM- Return on Investment.
- Note 3 Total RAM Cap:
See Decision and 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.	Month	Beginning Balance	Target Revenues	Recorded Adjusted Revenue	Variance to RBA	Adjustment for prior year RBA accrual	Adjustment	Tax-effected Balance Subject to Interest	Interest at 6% or 1.75%/year	Ending Balance
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Monthly RBA Balance and Activity (Monthly PUC Rpt., Pg. 9A)										
1	2013 December	\$ 66,080,670	\$ 45,001,122	\$ 41,178,802	\$ 3,822,320	\$ (4,255,258)	\$ 150,274	n/a	\$ 330,072	\$ 66,128,079
2	January 2014 Adjustment - Note (1)									\$ 58,927
3	REVISED 2013 December									\$ 66,185,006
4										
5	2014 January	\$ 66,128,079	\$ 44,129,429	\$ 40,155,441	\$ 3,973,988	\$ (3,925,516)	\$ 56,927	n/a	\$ 331,046	\$ 66,564,524
6	February	\$ 66,564,524	\$ 39,553,044	\$ 37,871,094	\$ 1,681,950	\$ (3,761,214)	\$ -	n/a	\$ 327,624	\$ 64,812,884
7	March	\$ 64,812,884	\$ 44,129,429	\$ 40,445,741	\$ 3,683,688	\$ (3,910,840)	\$ 17,878	n/a	\$ 94,379	\$ 64,607,989
8	April	\$ 64,607,989	\$ 42,712,929	\$ 39,888,701	\$ 2,824,228	\$ (3,873,501)	\$ 2,887	n/a	\$ 93,590	\$ 63,745,193
9	May	\$ 63,745,193	\$ 45,981,776	\$ 41,326,526	\$ 4,655,250	\$ (4,160,513)	\$ (84,319)	\$ 39,041,545	\$ 56,936	\$ 64,212,547
10	June	\$ 64,212,547	\$ 48,725,408	\$ 43,277,375	\$ 5,448,033	\$ (5,518,592)	\$ -	\$ 39,205,893	\$ 57,175	\$ 64,109,163
11	July	\$ 64,109,163	\$ 50,451,219	\$ 45,900,584	\$ 4,550,635	\$ (5,956,735)	\$ -	\$ 38,789,775	\$ 56,568	\$ 62,849,631
12	August	\$ 62,849,631	\$ 52,004,449	\$ 48,563,855	\$ 5,440,794	\$ (6,117,873)	\$ 11,211	\$ 38,194,875	\$ 55,701	\$ 62,239,464
13	September	\$ 62,239,464	\$ 49,933,476	\$ 45,456,699	\$ 4,476,777	\$ (6,024,188)	\$ 27,963	\$ 37,566,514	\$ 54,785	\$ 60,774,801
14	October	\$ 60,774,801	\$ 50,508,746	\$ 46,193,856	\$ 4,314,890	\$ (6,133,236)	\$ 73,457	\$ 36,616,787	\$ 53,399	\$ 59,083,311
15	November	\$ 59,083,311	\$ 47,517,340	\$ 43,033,461	\$ 4,483,879	\$ (5,514,770)	\$ 122,490	\$ 35,853,838	\$ 52,287	\$ 58,227,197
16	December	\$ 58,227,197	\$ 47,517,340	\$ 42,808,061	\$ 4,708,379	\$ (5,430,235)	\$ 227,834	\$ 35,489,687	\$ 51,756	\$ 57,784,931
17	January 2015 Adjustment - Note (1)									\$ 6,638
18	February 2015 Adjustment - Note (1)									\$ 12,479
19	REVISED 2014 December									\$ 57,804,048
20										
21	2015 January	\$ -	\$ 46,596,007	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
22	February	\$ -	\$ 41,764,635	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
23	March	\$ -	\$ 46,596,007	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
24	April	\$ -	\$ 45,101,204	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
25	May	\$ -	\$ 48,552,827	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
26	June	\$ -	\$ 50,629,223	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	July	\$ -	\$ 52,422,466	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	August	\$ -	\$ 54,036,386	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	September	\$ -	\$ 51,884,493	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
30	October	\$ -	\$ 52,482,241	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
31	November	\$ -	\$ 49,373,953	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
32	December	\$ -	\$ 49,373,953	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Sources of Data: Sch. B1 Sch B2 Cols (c)-(d) Note (2) Note (1) Cols ((b)+(g)+(e)+(f))/2/(l) Note (3), (4) Cols (b)+(e)+(f)+(g)+(i)

Composite Federal & State Income Tax Rate 38.91% (k)
Income Tax Factor (1 / 1-tax rate) 1.636929121 (l)
(See HECO-WP-F-001)

Note (1): Adjustment Summary:

Year	Month	Workpaper Reference	RBA True-up Adjustment Sch B2, Line 18	RBA Interest Adjustments	Total Adjustment	Adjustment Description
2014	January	HECO-WP-B-002	55,522	1,405	56,927	Adj. for out of period billing adjustments
2014	March	HECO-WP-B-003	17,678	-	17,678	Adj. for out of period billing adjustments
2014	April	HECO-WP-B-004	2,887	-	2,887	Adj. for out of period billing adjustments
2014	May	HECO-WP-B-005	-	(330,311)	(330,311)	Adj. to reflect interest calculated on RBA bal, net of def taxes, for January to April 2014
2014	May	HECO-WP-B-006	245,812	180	245,992	Adj. for out of period billing adjustments
2014	August	HECO-WP-B-007	11,211	-	11,211	Adj. for out of period billing adjustments for multiple customers
2014	September	HECO-WP-B-007	27,963	-	27,963	Adj. for out of period billing adjustments for multiple customers
2014	October	HECO-WP-B-007	73,457	-	73,457	Adj. for out of period billing adjustments for multiple customers
2014	November	HECO-WP-B-007	122,490	-	122,490	Adj. for out of period billing adjustments for multiple customers
2014	December	HECO-WP-B-007	204,852	22,982	227,834	Adj. for out of period billing adjustments for multiple customers
2015	January	HECO-WP-B-008	6,141	497	6,638	Adj. for out of period billing adjustments
2015	February	HECO-WP-B-009	12,479	-	12,479	Adj. for out of period billing adjustments

Note (2):

Amounts represent recovery of prior years' RBA balance through the RBA rate adjustment effective June 1, 2013 for the period June 2013 through May 2014 and June 1, 2014 for the period June 2014 through May 2015.

Note (3):

In Decision and Order No. 31908 in Docket No. 2013-0141, filed on February 7, 2014, the Commission ordered the Company to utilize the short term debt rate as established in deriving the consolidated cost of capital in the last full rate case in computing interest on the outstanding RBA balances. The Commission approved the RBA tariff amendments for the Company implementing the revised interest rate effective as of March 1, 2014 in Decision and Order No. 32001 filed March 28, 2014. As a result, the interest rate used to compute the RBA interest was changed from 6% to 1.75% as of March 1, 2014.

Note (4):

In connection with Decision and Order No. 31908 on Schedule A of the Decoupling Investigation, issued on February 7, 2014, the Company received approval on April 28, 2014 from the Internal Revenue Service to change its tax treatment of RBA revenues from the book accrual method of revenue balancing account ("RBA") revenue recognition to a recognition method based on when rates are adjusted and revenues are collected, effective January 1, 2014. Accordingly, in May 2014, the Company made an adjustment of <330,311>, as reflected in Note 1 to the RBA balance for the interest on a net-of-income tax RBA balance for the period January 1 - April 30, 2014. Starting with May 2014, Schedule B has been updated to calculate interest based on a net-of-income tax RBA balance.

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

Line No.	Description (a)	Reference (b)	Docket No. 2010-0080 Amounts (c)	Docket No. 2010-0080 Amounts (d)	Docket No. 2010-0080 Amounts (e)	Docket No. 2010-0080 Amounts (f)	Docket No. 2010-0080 Amounts (g)	Docket No. 2010-0080 Amounts (h)
1	Least Rate Case Annual Electric Revenue at Approved Rate Levels	Note (1)	\$000s \$ 1,765,954	\$ 1,765,954	\$ 1,765,954	\$ 1,765,954	\$ 1,765,954	\$ 1,765,954
2	Less: Fuel Expense	Note (1)	\$000s \$ (658,172)	\$ (658,172)	\$ (658,172)	\$ (658,172)	\$ (658,172)	\$ (658,172)
3	Purchased Power Expense	Note (1)	\$000s \$ (438,707)	\$ (438,707)	\$ (438,707)	\$ (438,707)	\$ (438,707)	\$ (438,707)
4	Revenue Taxes on Line 1 (8.885% statutory rates)		\$000s \$ (156,905)	\$ (156,905)	\$ (156,905)	\$ (156,905)	\$ (156,905)	\$ (156,905)
5	Least Rate Order Target Annual Revenues	Sum Lines 1.. 4	\$000s \$ 512,170	\$ 512,170	\$ 512,170	\$ 512,170	\$ 512,170	\$ 512,170
6	Add: Authorized RAM Revenues	Note (2)	\$000s \$ 38,407	\$ 38,407	\$ -	\$ -	\$ -	\$ -
7	Less: Revenue Taxes on Line 6 at 8.885%		\$000s \$ (3,412)	\$ (3,412)	\$ -	\$ -	\$ -	\$ -
8	Net RAM Adjustment - Test Year +2	Lines 6+7	\$000s \$ 34,994	\$ 34,994	\$ -	\$ -	\$ -	\$ -
9	Authorized RAM Revenues	Note (3)	\$000s \$ -	\$ -	\$ 69,254	\$ 69,254	\$ -	\$ -
10	Less: Revenue Taxes on Line 9 at 8.885%		\$000s \$ -	\$ -	\$ (6,153)	\$ (6,153)	\$ -	\$ -
11	Net RAM Adjustment - Test Year +3	Lines 9+10	\$000s \$ -	\$ -	\$ 63,100	\$ 63,100	\$ -	\$ -
12	Authorized RAM Revenues - Revised	Sch. A, Line 4	\$000s \$ -	\$ -	\$ -	\$ -	\$ 89,587	\$ 89,587
13	Less: Revenue Taxes on Line 12 at 8.885%		\$000s \$ -	\$ -	\$ -	\$ -	\$ (7,960)	\$ (7,960)
14	Net RAM Adjustment - Test Year +4	Lines 12+13	\$000s \$ -	\$ -	\$ -	\$ -	\$ 81,627	\$ 81,627
15	Less: EARNINGS SHARING REVENUE CREDITS	Note (2)	\$000s \$ (2,586)	\$ (2,586)	\$ -	\$ -	\$ -	\$ -
16	Less: Revenue Taxes on Line 15 at 8.885%		\$000s \$ 230	\$ 230	\$ -	\$ -	\$ -	\$ -
17	Net Earnings Sharing Revenue Credits	Lines 15 + 16	\$000s \$ (2,356)	\$ (2,356)	\$ -	\$ -	\$ -	\$ -
18	PUC-ORDERED MAJOR OR BASELINE CAPITAL CREDITS:	Sch. A, Line 6	\$000s \$ -	\$ -	\$ -	\$ -	\$ -	\$ -
19	Total Annual Target Revenues							
20	June 1, 2013 Annualized Revenues w/ RAM Increase	Col (e), Lines (5+8+17)	\$000s \$ 544,808	\$ 544,808				
21	June 1, 2014 Annualized Revenues w/ RAM Increase	Col (g), Lines (5+11+17)			\$ 575,270	\$ 575,270		
22	June 1, 2015 Annualized Revenues w/ RAM Increase	Col (g), Lines (5+14+17)					\$ 593,797	\$ 593,797
23	Distribution of Target Revenues by Month:	Note (4)						
24	January	8.10%		\$44,129,429		\$48,596,907		\$48,097,564
25	February	7.26%		\$39,553,044		\$41,784,635		\$43,109,688
26	March	8.10%		\$44,129,429		\$46,596,907		\$48,097,564
27	April	7.84%		\$42,712,929		\$45,101,204		\$48,553,691
28	May	8.44%		\$45,981,778		\$48,552,827		\$50,116,474
29	June- effective date of RAM Change	8.47%	\$46,145,218		\$48,725,408		\$50,294,613	
30	July	8.77%	\$47,779,642		\$50,451,219		\$52,076,004	
31	August	9.04%	\$49,250,622		\$52,004,449		\$53,679,256	
32	September	8.88%	\$47,289,315		\$49,833,476		\$51,541,587	
33	October	8.78%	\$47,834,122		\$50,508,748		\$52,135,384	
34	November	8.28%	\$45,001,122		\$47,517,340		\$49,047,639	
35	December	8.28%	\$45,001,122		\$47,517,340		\$49,047,639	
36	Total Distributed Target Revenues	100.00%	\$328,301,163	\$218,508,607	\$346,657,978	\$226,612,480	\$357,622,122	\$235,974,961

Footnotes:

- Docket No. 2010-0080 amounts derived from Order No. 30578, filed August 9, 2012, effective September 1, 2012, which implemented Decision and Order No. 30505, Exhibit A, page 1, filed June 29, 2012.
- Transmittal 13-03 filed July 16, 2013, revising 2013 target revenue effective June 1, 2013.
- Transmittal 14-03 filed May 22, 2014, revising 2014 target revenue effective June 1, 2014.
- RBA Tariff Revised July 26, 2011 to reflect 2011 test year.

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

Line No.	Description (a)	Reference (b)	Docket No. 2010-0080 Approved (c)	Footnote 4 Previously Approved RAM (d)	O&M Subject to Escalation Col (c) + (d) (e)	Net Inflation Indices Footnote 2 (f)	2015 O&M RAM Adjustment Col (e) * (f) (g)
1	Base BU Labor Expenses	Schedule C1	\$ 51,224		\$ 51,224	8.47%	\$ 4,338
2	Base Non-Labor Expense	Schedule C2	\$ 139,483		\$ 139,483	6.24%	\$ 8,702
3	Payroll Taxes	Footnote 1	\$ 4,708		\$ 4,708	8.47%	\$ 399
4	Subtotal Expense Increase - RAM Adjustment before revenue taxes						\$ 13,437
5	Revenue Tax Factor (Footnote 3)						1.0975
6	O&M RAM (SubTotal Expenses x Rev Tax Factor)						\$ 14,747

Footnotes:

1: Payroll Taxes per Interim D&O in Docket No. 2010-0080, Exhibit A, page 3	\$ 8,905
Less: Portion of payroll taxes related to non-BU labor ^A (47.14% * 8,905)	\$ (4,197)
Payroll Taxes related to Bargaining Unit labor	\$ 4,708

^A See Schedule C1 for calculation of percentage related to non-BU labor.

2: Escalation Rates

Labor:	2012	2013	2014	2015	
Bargaining Unit Wage Increase	2.46%	2.88%	3.00%	2.91%	(See HECO-WP-C-001)
Less: Labor Productivity Offset	0.76%	0.76%	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	1.70%	2.12%	2.24%	2.15%	

Calculation of 2012-2015 Compounded Labor Cost Escalation

2012 Labor Cost Escalation	1.0170	A (2012 labor escalation plus 1)
2013 Labor Cost Escalation	1.0212	B (2013 labor escalation plus 1)
2014 Labor Cost Escalation	1.0224	C (2014 labor escalation plus 1)
2015 Labor Cost Escalation	1.0215	D (2015 labor escalation plus 1)
2012-2015 Compounded Labor Cost Escalation	1.0847	E = A * B * C * D
2012-2015 Compounded Labor Cost %	0.0847	F = E - 1

Non-Labor:	2012	2013	2014	2015	
GDP Price Index	1.70%	1.70%	1.60%	1.10%	(See HECO-WP-C-002)

Calculation of 2012-2015 Compounded Non-Labor Cost Escalation

2012 Non-Labor Cost Escalation	1.0170	A (2012 non-labor escalation plus 1)
2013 Non-Labor Cost Escalation	1.0170	B (2013 non-labor escalation plus 1)
2014 Non-Labor Cost Escalation	1.0160	C (2014 non-labor escalation plus 1)
2015 Non-Labor Cost Escalation	1.0110	D (2015 non-labor escalation plus 1)
2012-2015 Compounded Non-Labor Cost Escalation	1.0624	E = A * B * C * D
2012-2015 Compounded Non-Labor Cost %	0.0624	F = E - 1

3: Computation of Revenue Tax Factor

Public Service Tax Rate	0.05885
PUC Fees Rate	0.00500
Franchise Tax Rate	0.02500
Total Revenue Tax Rate	0.08885

Revenue Tax Factor
= 1 / (1 - Total Revenue Tax Rate) = 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
Final D&O - Docket No. 2010-0080
(000)

Line No.	DESCRIPTION	Footnote 1		Footnote 2		
		(a) BU LABOR	(b) NON-BU LABOR	(c)=(a)+(b) TOTAL LABOR	(d) NON-LABOR	(e) TOTAL
1	Production	26,585	12,400	38,985	52,838	91,823
2	Transmission	3,519	2,373	5,892	10,103	15,995
3	Distribution	12,559	4,838	17,397	24,148	41,545
4	Customer Accounts	6,136	2,357	8,492	6,119	14,611
5	Allowance for Uncoll Accounts	-	-	-	1,463	1,463
6	Customer Service	152	3,238	3,390	3,197	6,587
7	Administrative & General	2,273	20,484	22,757	63,621	86,378
8	Operation and Maintenance	51,224	45,690	96,913	161,489	258,402

Percentage of Total O&M Labor 52.86% 47.14% 100%

* amounts may not add due to rounding

Footnotes:

1 See Letter dated October 4, 2011, Subject: Hawaiian Electric Supplemental and Revised Responses, filed in Docket No. 2010-0080, Attachment, page 1: Worksheet showing the breakdown of the 2011 test year labor expenses between BU and non-BU.

O&M breakdown above excludes fuel from original schedule. Refer to O&M recalculation below which includes fuel component.

	BU LABOR	NON-BU LABOR		TOTAL	BU+NON BU TOTAL
		MERIT	OTHER		
FUEL	333	829	11	840	1,173
PRODUCTION	26,585	12,370	30	12,400	38,985
TRANSMISSION	3,519	2,373	-	2,373	5,892
DISTRIBUTION	12,559	4,838	-	4,838	17,397
CUSTOMER ACCOUNTS	6,136	2,357	-	2,357	8,493
CUSTOMER SERVICE	152	3,238	-	3,238	3,390
ADMIN & GENERAL	2,273	20,462	22	20,484	22,757
TOTAL	51,557	46,467	63	46,530	98,087
% of TOTAL BU/NON BU LABOR	52.56%			47.44%	100.00%
% of TOTAL BU/NON BU LABOR (excluding fuel)	52.86%			47.14%	100.00%

2 See Letter dated December 14, 2012, Subject: Docket No. 2010-0080 - Hawaiian Electric 2011 Test Year Rate Case Hawaiian Electric Worksheet Showing Updated Labor/Non-Labor Expense Split for RAM Calculation, Attachment 1, pages 1-3.

Hawaiian Electric Company, Inc.
Non-Labor Exclusion
Adjustment for O&M RAM
(\$ thousands)

<u>Line No.</u>	<u>Description</u> (a)	<u>Amount</u> (b)	<u>Reference</u> (c)
1	Pension Expense	31,617	See Parties' Stipulated Settlement Letter, filed July 5, 2011, in Docket No. 2010- 0080, HECO T-15 Attachment 1, page 1
2			
3			
4	OPEB Expense	(463)	See Parties' Stipulated Settlement Letter, filed July 5, 2011, in Docket No. 2010- 0080, HECO T-15 Attachment 1, page 1
5			
6			
7	Total before amounts transferred	31,154	
8			
9	O&M %	70.70%	See Parties' Stipulated Settlement Letter, filed July 5, 2011, in Docket No. 2010- 0080, HECO T-15 Attachment 1, page 1
10	(1- transfer rate of 29.3%)		
11			
12			
13	Adjustment to Non-Labor O&M Expense for O&M RAM base	22,026	
14			
15			
16			
17	Non-Labor O&M Expense per Interim D&O	161,489	Schedule C1
18			
19			
20	Non-Labor O&M Expense Base for O&M RAM base	139,463	
21			

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

Line No.	Description (a)	AMOUNTS IN THOUSANDS (b)	PERCENT OF TOTAL (c)	COST RATE (d)	POST TAX WEIGHTED EARNINGS REQMTS (e)	INCOME TAX FACTOR Note (1) (f)	PRETAX WEIGHTED EARNINGS REQMTS (g)
1	<u>PUC APPROVED CAPITAL STRUCTURE & COSTS (Note (2)):</u>						
2	Short-Term Debt	\$ 38,210	2.35%	1.75%	0.04%	1.000000	0.04%
3	Long-Term Debt	624,620	38.36%	5.86%	2.25%	1.000000	2.25%
4	Hybrid Securities	27,994	1.72%	7.36%	0.13%	1.000000	0.13%
5	Preferred Stock	20,806	1.28%	5.46%	0.07%	1.63693	0.11%
6	Common Equity	916,533	56.29%	10.00%	5.63%	1.63693	9.21%
7	Total Capitalization	<u>\$ 1,628,163</u>	<u>100.00%</u>		<u>8.11%</u>		<u>11.74%</u>
8	RAM CHANGE IN RATE BASE \$000 (From Schedule D1)						\$ 382,066
9	PRETAX RATE OF RETURN (Line 7, Col g)						11.74%
10	PRETAX RETURN REQUIREMENT						\$ 44,854.5
11	REVENUE TAX FACTOR (1/(1-8.885%))						1.0975
12	RATE BASE RAM - RETURN ON INVESTMENT \$000						<u>\$ 49,227.8</u>

Footnotes:

1 Composite Federal & State Income Tax Rate
Income Tax Factor (1 / 1-tax rate)

38.91% See HECO-WP-F-001
1.636929121

2 See Decision and Order No. 30505, Page 127, filed June 29, 2012, in which the commission accepted the proposed capital structure set forth in the Parties' Stipulated Settlement Letter, filed July 5, 2011, in Docket No. 2010-0080, Exhibit 1, Page 125 of 132.

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

Line No.	Description	HECO 2011 Test Year Rate Base (Note 2)		HECO 2015 RAM Rate Base		
		Reg. Balance 12/31/2010 (b)	Budgeted Balance 12/31/2011 (c)	Adjusted Recorded at 12/31/2014 (d)	RAM Projected Amounts (e)	Estimated at 12/31/2015 (f)
1	Net Cost of Plant in Service	\$ 1,608,932	\$ 1,710,082	\$ 2,288,362	\$ 73,000	\$ 2,359,362
2	Property Held for Future Use	4,090	4,090	0	0	0
3	Fuel Inventory	93,229	93,229			
4	Materials & Supplies Inventories	18,229	18,229			
5	Unamort Net SFAS 109 Reg Asset	62,723	64,248			
6	Unamort EOTF Reg Asset	523	2,138			
7	CIP CT-1 Reg Asset			4,215	(954)	3,261
8	CIS Def Cost			12,705	(1,220)	11,486
9						
10						
11						
12	Unamort Sys Dev Costs	9,253	8,297			
13	RO Pipeline Reg Asset	5,587	5,473			
14	Contrib in Excess of NPPC	-	19,411			
15	Total Additions	\$ 1,802,568	\$ 1,925,193	\$ 2,503,565	\$ 70,826	\$ 2,574,390
16	Unamortized CIAC	\$ (189,314)	\$ (206,279)	\$ (283,740)	\$ (22,873)	\$ (306,613)
17	Customer Advances	(1,879)	(1,855)			
18	Customer Deposits	(10,245)	(13,554)			
19	Accumulated Def Income Taxes	(213,833)	(271,014)	(436,808)	(2,937)	(439,544)
20	Unamortized State ITC (Gross)	(32,171)	(35,088)			
21	Unamortized Gain on Sale	(800)	(516)			
22	Pension Reg Liability	(3,996)	(2,522)			
23	OPEB Reg Liability	(6,378)	(8,749)			
24	Total Deductions	\$ (458,814)	\$ (539,577)	\$ (779,223)	\$ (25,810)	\$ (805,033)
25	Working Cash	21,047	21,047	21,047		21,047
26	Rate Base at Proposed Rates	\$ 1,364,999	\$ 1,406,663	\$ 1,745,368		\$ 1,790,405
27	Average Rate Base		\$ 1,365,831			\$ 1,767,887
28	Change in Rate Base					\$ 382,068

29	Column (e) Projected Changes to Rate Base:	Reference	Amount \$000
30	Plant - Baseline Capital Project Additions	Schedule D2	194,492
31	Major Project Additions	Schedule D3	1,029
32	Accumulated Depreciation/Amortization Change	Schedule E	(122,522)
33	Net Plant	Sum: Lines 30-32	73,000
34	Accum. Deferred Income Taxes - Baseline and Major Capital Projects	Schedule F	(2,937)
35	Projected CIAC Additions - Baseline	Schedule G	(25,797)
36	Projected CIAC Additions - Major CIP	Schedule G2	(3,847)
37	Less: Amortization of CIAC	Schedule G	6,771
38	Total Change in CIAC in Rate Base	Sum: Lines 35-37	(22,873)

Footnotes:

1 Amounts are recorded, except for the following adjustments:

	Plant in Service	Acc. Depr.	CIAC Net	ADIT
[A] Unadjusted Balance	\$ 3,826,257	\$ (1,269,082)	\$ (283,740)	\$ (437,905)
[A] Add: Asset Retirement Obligation		\$ (28,954)		
[A] Reg Liab-Cost of Removal (net salvage)		\$ (227,390)		
Major Project Adjustments:				
Waiuku 8 Boiler Cts Upgrade	(1,074)	62		217
Waiuku 8 Main Transformer Replace	(243)	20		48
Kahuku Wind Power	(7)	6		1
W7 Controls Upgrade	(424)	11		81
Kakaako Makai-Iwilei	(3,510)	152		632
Kakaako Makai-Kewalo/DOT Queen-Cook	(1,737)			318
Tenant Improvement Allowance (Sch E)	(12,884)	5,158		
Total Adjustments	\$ (19,898)	\$ 5,409	\$ -	\$ 1,297
Adjusted Balance	\$ 3,806,359	\$ (1,519,997)	\$ (283,740)	\$ (436,608)

2 See Hawaiian Electric Company, Inc. Decision and Order No. 30505, EXHIBIT B, Page 1 of 2, For Approval of Rate Increases and Revised Rate Schedules and Rules, filed June 29, 2012, in Docket No. 2010-0080.

3 In Transmittal No. 13-03 (Decoupling, Hawaiian Electric's RBA Rate Adjustment Tariff Filing, Hawaiian Electric's Response to the Division of Consumer Advocacy's Statement of Position and Revised RBA Rate Adjustment), Schedule D1, filed on May 14, 2013, these amounts were not updated for RAM purposes. However, in 2012 and 2013, the entire balance of Property Held for Future Use (PHFFU) was transferred to Plant in Service, resulting in a zero balance in PHFFU. Leaving these amounts unchanged from the balance at 12/31/11 would result in an overstatement of rate base by \$4,090.

Balance PHFFU at 12/31/11	\$ 4,090	
Less transfers to Plant in Service:		
CIP 1 Unit Addition - Land	(1,810)	Schedule D2: Amount transferred in 2013
Kakoi Substation Land	(2,278)	Schedule D2: Amount transferred in 2013
Kapolei Substation	(4)	Amount transferred in 2012
Balance PHFFU at 12/31/13	\$ -	[A]

[A] SOURCE: Hawaiian Electric Company, Inc. Monthly Financial Report - December 2014, pages 8 and 10, filed February 26, 2015.

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

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

Line No.	Description (a)	5/28/2010		3/30/2012		3/22/2013		3/28/2014		NOTE (2)
		2010 (b)	2011 (c)	2012 (d)	2013 (e)	2014 (f)				
1	Total Plant Additions	170,061,118	169,626,067	266,978,908	272,820,344	269,326,260				
2										
3	Less Major Projects: (+\$2.5 Million)									
4										
5	<u>2005 In-service:</u>									
6	New Dispatch Center			(914)						
7										
8	<u>2007 In-service:</u>									
9	Kahe 3 Boiler Controls Upgrade			(24,522)						
10										
11	<u>2008 In-service:</u>									
12	KoOlina Substation									
13	CIP Generating Unit			(1,693,188)				(1,809,875)		
14	Air Quality Monitoring Station			(361,928)		198,549				
15										
16	<u>2009 In-service:</u>									
17	CIP0 Kahe RO Water Project			(373,480)		55,867				
18	Barbers Point Fuel Oil Tank									
19	Whitmore Substation									
20										
21	<u>2010 In-Service:</u>									
22	Beckoning Point 46kv Line Ext			(1,506,538)		(8,796)				
23	Beckoning Point Substation - NOTE (1)			(948,191)		(575)				
24	Kamoku 46kv UG Alt Ph 1 (EOTP)			(58,502,483)		(210,958)		(69)		
25	K3 Biofuel Co-Firing			(4,957,351)		(303,872)		(4,608)		
26	Kahuku Wind Power - NOTE (3)			NA		NA		NA		NA
27										
28	<u>2011 In-Service:</u>									
29	W8 Boiler Controls Upgrade				(6,165,261)	(118,480)		(45,384)		
30	EOTP Ph. 2 (Subs/Switch Stations)				(8,070,051)	(6,607,578)		(184,448)		(7,357)
31	W7 Controls Upgrade				(5,009,888)	(119,081)		(308,336)		(8,237)
32	W8 Main Transformer Replace				(2,627,959)	(19,800)		47,320		18,503
33										
34	<u>2012 In-Service:</u>									
35	K1 Condenser Tube Replace					(4,910,700)		(1,850)		
36	BPT Tank 132 Improvements					(5,513,984)		(547)		
37	Mobile Radio Replacement					(2,502,181)		(61,573)		
38	Kapolei Substation					(6,217,064)		(780,700)		(6,459)
39										
40	<u>2013 In-Service:</u>									
41	Pukele 80MVA Tsf #3							(4,299,560)		(28,327)
42	Kakaako Makai-Iwilei 25kV DL							(6,681,331)		(485,650)
43	Kaloi Substation - Land							(2,276,439)		
44	North South Road 46kV Line							(2,099,046)		
45										
46	<u>2014 In-Service:</u>									
47	Kaloi Substation									(6,548,755)
48	Kaloi Sub 46kV & 12kV Distr									(1,218,895)
49	Kaloi Telecomm									(171,237)
50	Kaloi Sub 12kV Work									(25,906)
51	Kakaako Makai-Kewalo 25kV DL									(4,958,840)
52	Kakaako Makai DOT Queen-Cook									(1,961,600)
53	BPT Tank 133 Improvements									(6,095,787)
54	Pukele 80MVA Tsf #2									(3,449,859)
55	DOT Airport DSG									(4,965,396)
56										
57	Total Net Plant Additions (excluding major projects)	101,469,688	147,274,596	229,969,991	264,333,967	239,412,448				
58										
59	Last Five-Year Average									\$ 194,492,138

NOTE (1):

2010 cost is net of customer advance of \$777,838. See Hawaiian Electric Transmittal No. 11-02, Attachment 4.5 page 20, filed May 10, 2011.

NOTE (2):

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 2014, in Docket No. 03-0257, filed on March 27, 2015.

NOTE (3):

In Hawaiian Electric Transmittal No. 11-02, Attachment 4.1, page 3 (Revised 5/10/11), filed May 10, 2011, the Company reflected the removal of the Kahuku Wind Power project, due to approval for recovery through the REIP surcharge (Decision and Order and Dissenting Opinion of Leslie H. Kondo, Commissioner, Docket No. 2009-0176, filed on May 12, 2010). However, because these costs were included as part of the 2010 and 2011 plant additions in Hawaiian Electric's 2011 rate case (Docket No. 2010-0080), the Company did not seek to recover these costs through the REIP surcharge (see the Renewable Energy Infrastructure Program ("REIP") - Annual Report, p 2, footnote 3, filed in Docket No. 2007-0416, dated January 31, 2012). The recorded cost of this project is \$2,132,812 as shown on HECO-WP-E-001.

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

Line No.	Description (a)	PUC Docket Reference (b)	Estimated In Service Date (c)	Amount (d)
1	DOT Airport DSG	Docket No. 2008-0329 (D&O dated 6/25/2009)	Aug-14	81,914
2	2015 Stragglng costs	UI Planner Budget files		
3	Pukele 80MVA Tsf #2	Docket No. 2011-0156 (D&O dated 10/12/2012)	May-14	50,132
4	2015 Stragglng costs	UI Planner Budget files		
5	KaloI Substation	Docket No. 2008-0070 (D&O dated 8/14/2008)	Various	4,413
6	2015 Stragglng costs	UI Planner Budget files	2013 & 2014	
7	EOTP Phase 2	Docket No. 2010-0062 (D&O dated 10/19/2010)	Aug-12	8,814
8	2015 Stragglng costs	UI Planner Budget files		
9	BPT Tank 133 Improvements	Docket No. 2010-0318 (D&O dated 10/6/2011)	Dec-14	899,795
10	2015 Stragglng costs	UI Planner Budget files		
11	Pukele 80MVA Tsf#3	Docket No. 2011-0156 (D&O dated 10/12/2012)	Apr-13	(15,782)
12	2015 Stragglng costs	UI Planner Budget files		
13	Total Major Capital Projects Qualifying for 2015 RAM (See HECO-WP-D3-001)			\$ 1,029,286

See Schedule G2 for related CIAC (if applicable)

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

Line No.	NARUC Account (a)	Reference (b)	DR/(CR) Federal ADIT (c)	DR/(CR) State ADIT (d)	DR/(CR) Total ADIT (e)
1	Recorded Deferred Income Tax Balances December 31, 2014 Recorded Balances				
2	Depreciation Related Account 282	HECO-WP-D4-001	(216,951,519)	(9,787,098)	(226,738,617)
3	Other Deferred Income Taxes	HECO-WP-D4-001	(175,813,670)	(35,352,386)	(211,166,056)
4	Total Recorded Deferred Income Taxes		<u>(392,765,189)</u>	<u>(45,139,484)</u>	<u>(437,904,673)</u>
5	<u>Adjustments to Recorded Balances:</u>				
6	ADIT on Major Project excess depreciation	HECO-WP-D4-002	1,264,469	32,187	1,296,656
7	Total Adjustments to Recorded ADIT Balances		<u>1,264,469</u>	<u>32,187</u>	<u>1,296,656</u>
8	Adjusted Recorded ADIT Balances -12/31/14		<u>(391,500,720)</u>	<u>(45,107,297)</u>	<u>\$ (436,608,017)</u>

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

Line No.	NARUC Account	Recorded Depreciable/Amort. Balance (Footnote 3)	Adjustments (Footnote 1)	Adjusted Depreciable/Amort. Balance	PUC Approved Accrual Rate	Annual Accrual
	(a)	(b)	(c)	(d)	(e)	(f)
1	Depreciable Plant					
2	311	89,072,912		89,072,912	0.01600	1,425,167
3	312	389,276,855	(1,498,566)	367,778,289	0.02030	7,485,899
4	314	182,448,297		182,448,297	0.01540	2,809,704
5	315	73,540,758	(243,014)	73,297,744	0.02430	1,781,135
6	Tot - Steam	714,338,822	(1,741,580)	712,597,242	0.01887	13,481,905
7						
8	341	38,039,920		38,039,920	0.00770	292,907
9	342	18,257,068		18,257,068	0.02580	419,432
10	343	65,150,372		65,150,372	0.03260	2,123,902
11	344	27,710,730		27,710,730	0.01010	279,878
12	345	34,501,242		34,501,242	0.02510	865,881
13	Tot - Gas Turb	181,659,332	-	181,659,332	0.02192	3,982,101
14						
15	Tot - Prod	895,998,154	(1,741,580)	894,256,574		17,464,008
16						
17	3501	3,042,698		3,042,698	-	-
18	352	39,198,124		39,198,124	0.01600	627,170
19	353	290,040,187		290,040,187	0.01860	5,394,747
20	354	19,145,585		19,145,585	0.01480	283,355
21	355	280,419,552		280,419,552	0.03240	9,085,593
22	356	147,878,362		147,878,362	0.03270	4,835,557
23	357	53,223,009		53,223,009	0.01590	846,246
24	358	54,101,473		54,101,473	0.01730	935,955
25	359	3,201,408		3,201,408	0.01490	47,701
26	Tot - Transm	890,248,398	-	890,248,398	0.02478	22,056,325
27						
28	3601	554,327		554,327	0.02340	12,971
29	361	24,478,393		24,478,393	0.01080	294,345
30	362	225,061,391		225,061,391	0.02020	4,548,240
31	364	181,575,630	(37,788)	181,537,842	0.03390	8,154,133
32	365	112,117,242	(27,345)	112,089,897	0.04190	4,696,587
33	366	241,891,285	(10,746)	241,880,539	0.02190	5,297,183
34	367	378,113,270	(4,843,482)	371,269,788	0.04980	18,489,235
35	368	205,094,071	(338,839)	204,755,232	0.05200	10,647,376
36	369.1	53,432,169		53,432,169	0.05250	2,805,189
37	369.2	180,572,056		180,572,056	0.04070	7,349,283
38	370	35,262,462		35,262,462	0.02660	937,981
39	Tot - Distr	1,638,150,276	(5,258,200)	1,630,894,076	0.03741	61,200,504
40						
41	Tot - T & D	2,528,398,674	(5,258,200)	2,521,142,474		83,256,829
42						
43	390	61,994,682		61,994,682	0.02450	1,518,870
44	Tot - General	61,994,682	-	61,994,682	0.02450	1,518,870
45						
46	Sub-Total	3,484,391,510	(8,997,780)	3,477,393,730		102,239,705
47						
48	3902 (King)	7,818,022		7,818,022	0.02296	179,502
49	3902 (CPP)	2,187,853		2,187,853	0.15092	330,191
50	3902 (Waterhouse)	1,517,450		1,517,450	0.42522	645,250
51	3902 (Hon Cl)	308,065		308,065	0.19550	59,836
52	3902 (ASB)	1,454,250		1,454,250	0.21737	318,110
53	3902 (Shinco)	654,853		654,853	0.33658	220,410
54	3902 (Tenant Allowance)	12,893,864	(12,893,864)	-	-	-
55	Tot- LH Impr	28,832,357	(12,893,864)	13,938,493		1,751,299
56						
57	392	50,548,812		50,548,812	0.06130	3,098,642
58						
59	Utility Total Depreciation	3,561,772,679	(18,891,644)	3,541,881,035	0.03007	107,089,646

Line No.	NARUC Account (a)	Recorded Depreciable/Amort. Balance (Footnote 3) (b)	Adjustments (Footnote 1) (c)	Adjusted Depreciable/Amort. Balance (d)	PUC Approved Accrual Rate (e)	Annual Accrual (f)
80	Amortizable Plant					
81	316	21,630,439		21,630,439	0.05000	1,081,522
82	Tot - Steam	21,630,439	-	21,630,439	0.05000	1,081,522
83						
84	346	18,224,141		18,224,141	0.05000	911,207
85	Tot - Gas Turb	18,224,141	-	18,224,141	0.05000	911,207
86						
87	Tot - Prod	39,854,580	-	39,854,580	0.05000	1,992,729
88						
89	3911	23,065,999		23,065,999	0.20000	4,613,200
90	3912	4,205,877		4,205,877	0.10000	420,588
91	3913	14,154,814		14,154,814	0.06670	944,126
92	393	1,159,596		1,159,596	0.04000	46,384
93	394	26,323,322		26,323,322	0.04000	1,052,933
94	395	573,848		573,848	0.06670	38,276
95	396	13,078		13,078	0.05580	727
96	397	105,964,465	(7,161)	105,957,304	0.06670	7,087,352
97	398	5,349,565		5,349,565	0.06670	356,816
98	Tot - General	180,810,564	(7,161)	180,803,403	0.08042	14,540,401
99						
100	Net Unrecovered Amortization					(1,101,041)
101	Utility Total Amortization	220,665,144	(7,161)	220,657,983	0.06993	\$ 15,432,089
102	TOTAL RAM DEPRECIATION / AMORTIZATION					\$ 122,521,735
103	LESS: Vehicle Depreciation (A/C 392 above)					\$ (3,088,642)
104	LESS: Depreciation & Amortization in Current Revenues				Footnote 2	\$ (94,237,000)
105	RAM Adjustment for Depreciation & Amortization					\$ 25,186,093
106	RAM Adjustment for CIAC Amortization				Sch. G	\$ 1,015,852
107	RAM Adjustment for CIP CT-1 Reg Asset Amortization				HECO-WP-D1-001A	954,000
108	RAM Adjustment for CIS Def Cost Amortization				HECO-WP-D1-001B	1,220,000
109	Total RAM Adjustment for Depreciation & Amortization					\$ 28,375,945
110	Times: Factor for Revenue Taxes					1.08750
111	RAM DEPRECIATION & AMORTIZATION					\$ 31,142,589

Footnotes:

1 Amounts are recorded (in \$000s), except for the following adjustments (see HECO-WP-D2-001):

Waiau 8 Boiler Ctl's Upgrade	\$ (1,074)
Waiau 8 Main Transformer Replace	(243)
Kahuku Wind Power	(7)
W7 Controls Upgrade	(424)
Kakaako Makai-Iwilei	(3,519)
Kakaako Makai-Kewalo/DOT Queen-Cook	(1,737)
Tenant Improvement Allowance (see Footnote 4)	(12,894)
Total	\$ (19,898)

2 Depreciation & Amortization in Current Revenues*:

Total Depreciation	\$ 97,297,000
LESS: Vehicle Depreciation (A/C 392)	(2,282,000)
LESS: CIP CT-1 excess depreciation	(603,000)
LESS: EOTP excess depreciation	(1,171,000)
ADD: Revised EOTP excess depreciation **	1,008,000
Net Depreciation in Current Revenues	\$ 94,237,000

*Amounts are per page 90 of Exhibit 1 to the Parties' Stipulated Settlement Letter dated July 5, 2011 in HECO's 2011 test year rate case (Docket No. 2010-0080).

**Amount is per page 1 of Exhibit 2, Attachment 3 to the Stipulated Supplement to the Parties' July 5, 2011 Stipulated Settlement Letter with respect to East Oahu Transmission Project Phase 1 Costs, dated February 3, 2012. Depreciation added in EOTP interim was based on 2010 plant adds and the 2010 actual depreciation rates (blended rate in 2010). The 2012 depreciation is based on additional plant adds made in 2011 included in the February 3, 2012 stipulation supplement, offset by the write-down of \$9.5M of costs and the lower depreciation rates in 2012 (full year of the lower depreciation rates).

3 Does not include land amounting to \$43,819,806 as of December 31, 2014.

4 Amount represents tenant improvement allowances paid by the lessors and excluded from the RAM calculation.

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

<u>Line No.</u>	<u>NARUC Account</u> (a)	<u>Reference</u> (b)	<u>Projected ADIT Change</u> (c)
1	State Tax Depreciation	Schedule F1	7,547,599
2	Effective Federal Tax Rate	HECO-WP-F-001	32.8947%
3	Federal Deferred Tax on State Tax Depreciation		<u>2,482,763</u>
4	Addback State Tax Depreciation		(7,547,599)
5	Federal Tax Depreciation	Schedule F1	<u>7,547,599</u>
6	Federal/State Difference		-
7	Tax Rate on Federal Only Adjustment	HECO-WP-F-001	35%
8	Federal Deferred Tax Adjustment		<u>-</u>
9	Total Federal Deferred Taxes		<u><u>2,482,763</u></u>
	STATE DEFERRED TAXES		
10	State Tax Depreciation		7,547,599
11	Effective State Tax Rate	HECO-WP-F-001	6.0150%
12	Total State Deferred Taxes		<u>453,991</u>
13	TOTAL FED AND STATE DEFERRED TAXES		<u><u>2,936,754</u></u>

NOTE: 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.

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

Line No.	LIFE (a)	HECO-WP-F1-002			TOTAL (g)	PROJECTS (h)	PROGRAMS (i)	TOTAL (j)	FED YR 1 TAX RATE	FED YR 1 TAX DEPR	STATE YR 1 TAX RATE	STATE YR 1 TAX DEPR
		(b)	(c)	(d)								
1	5	836	4,698	5,534	0.43%	2.42%	2,853	20.00%	944,597	20.00%	844,597	
2	20	2,045	1,393	3,438	1.05%	0.72%	1,771	14.29%	738,069	14.29%	738,069	
3	7	2,546	3,506	6,052	1.31%	1.80%	3,111	57.145%	1,312,519	5.00%	1,312,519	
4	20	22,836	66,908	89,742	11.64%	34.40%	46,044	52.500%	4,481,311	3.75%	4,481,311	
5	-	1,298	150	1,448	0.67%	0.08%	0.74%	-	-	-	-	
6	15	2,485	2,465	4,950	1.28%	0.00%	1,285	1.177%	31,461	1.177%	31,461	
7	20	26,966	3,183	30,149	13.86%	1.84%	15,506	-	-	-	-	
8	38	2,769	363	3,132	1.42%	0.19%	1,611	-	-	-	-	
9	20	8,623	8,270	16,893	4.43%	4.23%	8,693	-	-	-	-	
10	15	18,804	9,459	28,263	9.67%	4.85%	14,533	-	-	-	-	
11	-	-	7,548	7,548	0.00%	3.88%	3,888	-	-	-	-	
12	TOTAL	89,016	105,476	194,492	45.77%	54.23%	100.00%	-	-	-	-	

Basis subject to 50% bonus depreciation		Vintage 2014 - 50% Bonus Depreciation	
0.00%	0.00%	0.00%	0.00%
5 yr	0.00%	0.00%	0.00%
7 yr	0.00%	0.00%	0.00%
15 yr	0.00%	0.00%	0.00%
20 yr	0.00%	0.00%	0.00%
39 yr	0.00%	0.00%	0.00%
Land	0.00%	0.08%	0.74%
Vehicles	0.00%	3.88%	3.88%
Total	0.00%	54.23%	100.00%

Basis subject to regular depreciation		Vintage 2014 - Regular Depreciation	
0.00%	0.00%	0.00%	0.00%
5 yr	0.00%	0.00%	0.00%
7 yr	0.00%	0.00%	0.00%
15 yr	0.00%	0.00%	0.00%
20 yr	0.00%	0.00%	0.00%
39 yr	0.00%	0.00%	0.00%
Land	0.00%	0.19%	1.61%
Vehicles	0.00%	50.27%	95.38%
Total	0.00%	50.27%	95.38%

Net Depreciable Baseline Plant Adds		Major Capital Projects from Schedule F2	
4,722,986	20.00%	944,597	20.00%
5,165,073	14.29%	738,069	14.29%
26,250,362	5.00%	1,312,519	5.00%
119,501,827	3.75%	4,481,311	3.75%
2,673,002	1.177%	31,461	1.177%
158,313,070		7,507,977	
1,029,286		39,622	
159,342,356		7,547,599	
			St. Tax Depreciation to Schedule F
184,492,000	Schedule D2		
28,503,010	<<supported by Special Study each year.		
165,988,990			
7,675,920			
158,313,070			

NOTE (1) The Tax Increase Prevention Act of 2014 allows 50% bonus depreciation for assets placed in service before January 1, 2015. Consequently, the entire basis of vintage 2015 is subject to regular depreciation.

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

NOTE (3) A new line was created for Transmission - 15 year property.

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

Line No.	Description (a)	PUC Docket (c)	Estimated In Service Date (d)	Amount (e)		
1	Assumed Value of 2015 Major Capital Projects Plant Items			\$ 1,029,286	Schedule D3	
2	Assumed Value of 2015 Major Capital Projects - CIAC nontaxable				Schedule G2 *	
3	Assumed Value of 2015 Major Capital Projects - Total			<u>\$ 1,029,286</u>		
4	Tax Classification of Major Capital Project Additions	Tax Basis Distribution	FED YR 1 TAX RATE	FED YR 1 TAX DEPR	STATE YR 1 TAX RATE	STATE YR 1 TAX DEPR
5	5 yr		20.000%	-	20.00%	-
6	7 yr	-	14.29%	-	14.29%	-
7	15 yr	81,914	5.00%	4,096	5.00%	4,096
8	20 yr	947,372	3.75%	35,528	3.75%	35,528
9	39 yr					
10	Land					
11	Vehicles					
	Total			<u>\$ 39,622</u>		<u>\$ 39,622</u>

* Adjustment only for non-taxable CIAC. CIAC for 2015 Major Capital Project Additions are taxable.

HAWAIIAN ELECTRIC COMPANY, INC.
DECOUPLING CALCULATION WORKBOOK
CIAC SUMMARY

Line No.	Description (a)	Reference (b)	Unamortized CIAC (c)	CIAC Amortization (d)
1	12/31/14 Beginning Balance	Sch. G1	\$ (283,739,660)	
2				
3	<u>2015 CIAC Additions:</u>			
4	Baseline 5-Yr Average	Sch. G1	(25,796,723)	
5	Major Projects	Sch. G2	(3,847,195)	
6	Net Additions		<u>(29,643,918)</u>	
7				
8	<u>2015 CIAC Amortization:</u>			
9	Estimated Amortization	Sch. G3	<u>6,771,148</u>	<u>\$ (6,771,148)</u>
10				
11	12/31/15 Ending Balance		<u>\$ (306,612,430)</u>	(6,771,148)
12				
13	LESS: CIAC Amortization in Current Revenues - NOTE (1)			<u>(7,787,000)</u>
14				
15	RAM Adjustment for CIAC Amortization			<u>\$ 1,015,852</u>

Note (1) - Per page 90 of Exhibit 1 to the Parties' Stipulated Settlement Letter dated July 5, 2011 in HECO's 2011 test year rate case (Docket No. 2010-0080).

**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:

Line No.	Description (e)			2/22/2011	3/30/2012	2/19/2013	2/21/2014	2/28/2015
				2010 (b)	2011 (c)	2012 (d)	2013 (e)	2014 (f)
1	CIAC Balance, January 1 (Dec Rpt. pg. 10)			(179,585,120)	(189,314,529)	(204,795,271)	(238,510,104)	(258,084,189)
2	Less: CIAC Amortization (Dec Rpt. pg. 2)			9,814,759	7,788,468	4,895,840	5,652,912	6,147,559
3	Less: CIAC Balance, December 31 (Dec Rpt. pg. 10)			189,314,529	204,795,271	238,510,104	258,084,169	283,739,660
4								
5	Total CIAC Additions			19,344,168	23,267,210	38,610,673	25,226,977	31,803,050
6								
7	<u>Less Major Projects:</u>	<u>Dkt No.</u>	<u>Item No.</u>					
8								
9	<u>2005 In-service:</u>							
10	New Dispatch Center	03-0360	Y00030					
11								
12	<u>2007 In-service:</u>							
13	Kahe 3 Boiler Controls Upgrade	02-0206	P9539000					
14								
15	<u>2008 In-service:</u>							
16	KoOlina Substation	05-0056	Y00044					
17	CIP Generating Unit	05-0145	Y49000					
18	Air Quality Monitoring Station	Transfer from HELCO						
19								
20	<u>2009 In-service:</u>							
21	Kahe Reverse Osmosis	05-0146	P0001169					
22	Barbers Point Fuel Oil Tank	2007-0409	P0001534					
23	Whitmore Substation	2008-0132	P0001390					
24								
25	<u>2010 In-service:</u>							
26	Beckoning Point 46kv Line Ext	2008-0321	P0001497					
27	Beckoning Point Substation	2008-0321	P0001498					
28	Kamoku 46kv UG Alt Ph 1 (EOTP)	03-0417	Y48500					
29	K3 Biofuel Co-Firing	2009-0155	P0001577					
30	Kahuku Wind Power - NOTE (1)	2009-0176		NA	NA	NA	NA	NA
31								
32	<u>2011 In-Service:</u>							
33	W8 Boiler Controls Upgrade	2007-0365	P7650000					
34	EOTP Ph. 2 (Subs/Switch Stations)	2010-0062	Y48500	(81,977)	(2,750,528)	(2,157,239)	(87,994)	(43,725)
35	W7 Controls Upgrade	2009-0195	P7590000					
36	W8 Main Transformer Replace		P0001399					
37								
38	<u>2012 In-Service:</u>							
39	K1 Condenser Tube Replace	2010-0126	P0000681					
40	BPT Tank 132 Improvements	2010-0286	P0000899					
41	Mobile Radio Replacement	2010-0162	P0001595					
42	Kapolei Substation	2011-0026	Y00127					
43								
44	<u>2013 In-Service:</u>							
45	Pukele 80MVA Tsf #3	2011-0156	P0001494					
46	Kakaako Makai-Iwalei 25kv DL	2009-0042	Y00038					
47	Kaloi Substation - Land - NOTE (2)	2008-0070	Y00119			(2,173,999)		
48	North South Road 46kv Line	2008-0070	Y00119					
49								
50	<u>2014 In-Service:</u>							
51	Kaloi Substation	2008-0070	Y00119					
52	Kaloi Sub 46KV & 12KV Distr	2008-0070	Y00119					
53	Kaloi Telecomm	2008-0070	Y00119					
54	Kaloi Sub 12KV Work	2008-0070	Y00119					
55	Kakaako Makai-Kewalo 25kv DL	2009-0042	Y00038					
56	Kakaako Makai DOT Queen-Cook	2009-0042	Y00038					
57	BPT Tank 133 Improvements	2010-0318	P0000900					
58	Pukele 80MVA Tsf #2	2011-0156	P0001492					
59	DOT Airport DSG - NOTE (2)	2008-0329	P0001370		(1,993,000)			
60								
61	Total Net CIAC Additions			18,282,181	18,523,662	34,279,436	25,138,983	31,769,326
62								
63	Last Five-Year Average							25,788,723

GENERAL NOTE:

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 (1):

In Hawaiian Electric Transmittal No. 11-02, Attachment 4.1, page 3 (Revised 5/10/11), filed May 10, 2011, the Company reflected the removal of the Kahuku Wind Power project, due to approval for recovery through the REIP surcharge (Decision and Order and Dissenting Opinion of Leslie H. Kondo, Commissioner, Docket No. 2009-0176, filed on May 12, 2010). However, because these costs were included as part of the 2010 and 2011 plant additions in Hawaiian Electric's 2011 rate case (Docket No. 2010-0080), the Company did not seek to recover these costs through the REIP surcharge (see the Renewable Energy Infrastructure Program ("REIP") - Annual Report, p.2, footnote 3, filed in Docket No. 2007-0418, dated January 31, 2012). The recorded cost of this project is \$2,132,182 as shown on HECO-WP-E-001.

NOTE (2):

CIAC received for these projects were 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 NOTE (1).

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

Line No.	Description (a)	PUC Docket Reference (b)	Estimated In Service Date (c)	Amount (d)
1	<u>2015 Major Project CIAC Additions by Project:</u>			
2	Kakaako Makai DOT Queen-Cook Amount Qualifying for 2015 RAM	Docket No. 2009-0042 (D&O dated 8/7/2009) UI Planner Budget files	Apr-14	3,847,195
3	Total Major Project CIAC Additions for 2015 RAM (See HECO-WP-G2-001)			<u>\$ 3,847,195</u>

See Schedule D3 for related plant additions.

HAWAIIAN ELECTRIC COMPANY, INC.
DECOUPLING CALCULATION WORKBOOK
CIAC AMORTIZATION

Line No.	Description	2013		2014		2015	
		Balance (b)	Amortization (c)	Balance (d)	Amortization (e)		
1	<u>CIAC by Vintage:</u>						
2	1981	\$ 33,790	\$ 1,778	\$ 32,012	\$ 1,778		
3	1982	107,026	5,351	101,675	5,351		
4	1983	222,585	10,599	211,986	10,599		
5	1984	227,957	10,382	217,575	10,382		
6	1985	300,118	13,049	287,069	13,049		
7	1986	443,349	18,473	424,876	18,473		
8	1987	885,706	35,428	850,278	35,428		
9	1988	1,298,118	49,928	1,248,190	49,928		
10	1989	1,109,397	41,089	1,068,308	41,089		
11	1990	6,230,914	222,533	6,008,381	222,533		
12	1990 - Land	1,303,408	-	1,303,408	-		
13	1991	3,068,580	105,813	2,962,767	105,813		
14	1992	2,829,035	94,301	2,734,734	94,301		
15	1993	6,219,730	200,637	6,019,093	200,637		
16	1994	4,592,804	143,525	4,449,279	143,525		
17	1995	3,558,336	107,828	3,450,508	107,828		
18	1996	2,792,924	82,145	2,710,779	82,145		
19	1997	2,127,434	60,784	2,066,650	60,784		
20	1998	3,131,174	86,977	3,044,197	86,977		
21	1999	3,526,723	95,317	3,431,406	95,317		
22	2000	2,373,215	82,453	2,310,762	82,453		
23	2001	2,997,391	76,856	2,920,535	76,856		
24	2002	4,248,477	106,212	4,142,265	106,212		
25	2003	4,611,068	112,465	4,498,603	112,465		
26	2004	3,207,783	76,378	3,131,407	76,378		
27	2005	10,682,767	248,438	10,434,331	248,438		
28	2006	9,191,248	208,892	8,982,356	208,892		
29	2007	9,786,150	217,026	9,569,124	217,026		
30	2008	8,993,069	195,502	8,797,567	195,502		
31	2009	7,262,600	154,523	7,108,077	154,523		
32	2010	13,585,269	283,026	13,302,243	283,026		
33	2011	17,464,999	356,429	17,108,570	356,429		
34	2012	34,332,459	688,649	33,645,810	688,649		
35	2013	22,586,143	442,866	22,143,277	442,866		
36	2014			30,768,315	603,261		
37							
38							
39	<u>CIAC GET Adjustment:</u>						
40	-adj 92-96 GET	(133,422)	(3,924)	(129,498)	(3,924)		
41	-adj 97 GET	(49,090)	(1,403)	(47,687)	(1,403)		
42	-adj 98 GET	(81,101)	(1,697)	(79,404)	(1,697)		
43	-adj 99 GET	(80,260)	(2,169)	(78,091)	(2,169)		
44	-adj 00 GET	(77,090)	(2,029)	(75,061)	(2,029)		
45	-adj 01 GET	(114,670)	(2,940)	(111,730)	(2,940)		
46	-adj 02 GET	(124,428)	(3,111)	(121,317)	(3,111)		
47	-adj 03 GET	(169,021)	(4,122)	(164,899)	(4,122)		
48	-adj 04 GET	(118,045)	(2,811)	(115,234)	(2,811)		
49	-adj 05 GET	(242,347)	(5,636)	(236,711)	(5,636)		
50	-adj 06 GET	(530,831)	(12,060)	(518,771)	(12,060)		
51	-adj 07 GET	(427,305)	(9,496)	(417,809)	(9,496)		
52	-adj 08 GET	(349,417)	(7,596)	(341,821)	(7,596)		
53	-adj 09 GET	(324,887)	(6,912)	(317,975)	(6,912)		
54	-adj 10 GET	(489,388)	(10,196)	(479,192)	(10,196)		
55	-adj 11 GET	(421,752)	(8,607)	(413,145)	(8,607)		
56	-adj 12 GET	(529,936)	(10,599)	(519,337)	(10,599)		
57	-adj 13 GET	(899,363)	(13,713)	(885,650)	(13,713)		
58	-adj 14 GET			(701,332)	(13,752)		
59							
60							
61	<u>In - Kind CIAC:</u>						
62	1988	358,968	13,806	345,162	13,806		
63	1989	405,046	15,002	390,044	15,002		
64	1990	210,674	7,524	203,150	7,524		
65	1991	451,371	15,565	435,806	15,565		
66	1992	1,271,408	42,380	1,229,028	42,380		
67	1993	1,089,264	35,138	1,054,126	35,138		
68	1994	1,826,160	57,068	1,769,092	57,068		
69	1995	3,669,774	111,205	3,558,569	111,205		
70	1996	1,909,280	56,155	1,853,125	56,155		
71	1997	996,453	28,470	967,983	28,470		
72	1998	1,926,410	53,511	1,872,899	53,511		
73	1999	1,522,509	41,149	1,481,360	41,149		
74	2000	3,140,155	82,638	3,057,519	82,638		
75	2001	1,305,910	33,485	1,272,425	33,485		
76	2002	2,659,935	71,498	2,588,437	71,498		
77	2003	4,338,068	105,758	4,232,310	105,758		
78	2004	2,662,899	63,402	2,599,497	63,402		
79	2005	4,546,633	105,736	4,440,897	105,736		
80	2006	4,076,819	92,655	3,984,164	92,655		
81	2007	8,060,950	179,132	7,881,818	179,132		
82	2008	1,204,294	26,180	1,178,114	26,180		
83	2009	2,217,970	47,191	2,170,779	47,191		
84	2010	4,962,820	103,392	4,859,428	103,392		
85	2011	5,311,524	108,398	5,203,126	108,398		
86	2012	4,051,079	81,022	3,970,057	81,022		
87	2013	3,340,196	65,494	3,274,702	65,494		
88	2014			1,738,087	34,080		
89							
90	Total CIAC Amortization for 2015 RAM	\$ 256,084,168	\$ 6,147,559	\$ 283,739,659	\$ 6,771,148		

HAWAIIAN ELECTRIC COMPANY, INC.
DECOUPLING CALCULATION WORKBOOK
EARNINGS SHARING CALCULATIONS
All Amounts \$000 (Except %)

Line No.	Description (a)	Reference (b)	Ratemaking Basis Return on Equity			
			Operating Income (c)	Rate Base (d)	Rate of Return (e)	
1	Reported Operating Income before ratemaking adjustment	Dec 2014 Mo. PUC rpt, pg 2A filed 2/26/15 & HECO-WP-H-001	\$ 132,224	\$ 1,756,212		
2	<u>Ratemaking Adjustments to Line 1:</u>					
2a	Incentive Compensation Expenses (net of tax)	HECO-WP-H-002	4,552			
2b	Discretionary and Other Expenses Not Recoverable (net of tax)	HECO-WP-H-002	543			
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	(16,253)			
2e	Remove Accrued Earnings Sharing Refund	HECO-WP-H-005	0			
3	Ratemaking Basis Amounts - Post Tax	Sum Lines 1 & 2	\$ 121,251	\$ 1,756,212		
4	<u>Ratemaking Capitalization</u>		Balances	Ratios	Cost Rate	Weighted Cost
5	Short-Term Debt (12 mo. Avg)		\$ 42,893	2.16%	0.63%	0.01%
6	Long-Term Debt (Simple Avg)		\$ 784,273	39.54%	5.29%	2.09%
7	Hybrid Securities (Simple Avg)		\$ 28,322	1.43%	7.27%	0.10%
8	Preferred Stock (Simple Avg)		\$ 20,972	1.06%	5.41%	0.06%
9	Common Equity (Simple Avg)		\$ 1,107,140	55.81%	10.00%	5.58%
10	Total Capitalization	HECO-WP-H-004	\$ 1,983,600	100.00%		7.84%
11	Line 3 Rate Base Amount				\$ 1,756,212	
12	Weighted Cost of Debt (Sum Lines 5-7)				2.20%	
13	Synchronized Interest Expense				\$ 38,637	
	Income Tax Factor (Note 1)				1.636929121	
13a	Synchronized Interest Expense, net of tax				\$ 23,603	
14	Post Tax Income Available for Preferred & Common (Line 3 - Line 13a)					\$ 97,648
17	Less: Preferred Income Requirement (Line 8 Weighted Cost times Rate Base)					1,054
18	Income Available for Common Stock					\$ 96,594
19	Ratemaking Equity Investment (Line 9 Ratio times Rate Base)					980,224
20	Return on Equity for Decoupling Earnings Sharing (Line 18/Line 19)					9.85%
21	<u>Earnings Sharing Revenue Credits:</u>		Basis Points			
22	Achieved ROE (basis points)		985			
23	Authorized Return (basis points) (D&O 30505 in Dkt No. 2010-0080, filed on June 29, 2012)		1,000			
24	ROE for sharing (basis points)		-			
25	Sharing Grid per RAM Provision		First 100 bp	Next 200 bp	All over 300 bp	Ratepayer Total
26	Distribution of Excess ROE (basis points)		0	0	0	
27	Ratepayer Share of Excess Earnings		25%	50%	90%	
28	Ratepayer Earnings Share - Basis Points		-	-	-	-
29	Revenue Credit per Basis Point (Note 2)					\$ 176
30	Earnings Sharing Revenue Credits (thousands)					\$ -

Footnotes:

1	Composite Federal & State Income Tax Rate	38.91%
	Income Tax Factor (1 / 1-tax rate)	1.636929121
2	Ratemaking Equity Investment (line 19)	\$ 980,224
	Basis Point = 1/100 of a percent	0.01%
	Earnings Required per Basis Point (thousands)	\$ 98.02
	Times: Income Tax Conversion Factor	1.636929121
	Pretax Income Required per Basis Point (thousands)	\$ 160
	Times: Revenue Tax Conversion Factor	1.0975
	Revenue Requirement per Basis Point (thousands)	\$ 176

HAWAIIAN ELECTRIC COMPANY, INC.
DECOUPLING CALCULATION WORKBOOK
PUC-ORDERED ADJUSTMENTS

Line No.	Description (a)	Reference (b)	(c)	(d)
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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

<u>Line No.</u>	<u>Description</u> (a)	<u>Reference</u> (b)	<u>Amount \$000</u> (c)
1	Adjusted 2014 Target Revenues	HECO-WP-J-001	640,845
2	GDP Price Index	HECO-WP-C-002	0.011
3	RAM Cap Increase	Line 1 x 2	<u>7,049</u>
4	Adjusted 2014 RAM Revenue Adjustment	HECO-WP-J-001	<u>78,738</u>
5	RAM Cap for 2015 RAM Revenue Adjustment	Line 3 + 4	<u><u>85,788</u></u>

Note 1 **Target Revenues:**
 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 GDPPF for intervening years, adjusted to include applicable revenue taxes."

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

<u>Line No.</u>	<u>Description</u> (a)	<u>Reference</u> (b)	<u>Amount \$000</u> (c)
1	CIP CT-1 Reg Asset	Schedule K1, pg. 1	\$ 1,437.7
2	CIS Deferred Cost	Schedule K1, pg. 2	<u>2,361.6</u>
3	2015 Revenue Adjustment for Exceptional & Other Matters		<u>\$ 3,799.3</u>

Note 1 Exceptional and Other Matters:
 See Decision and 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."

 Footnote 149 stipulates that such applicable matters include adjustments accounting for CT-1 costs (for the HECO Companies) and CIS costs (for all of the HECO Companies) as provided in a stipulated agreement approved by the commission as amended in Order No. 31126 in Docket No. 2008-0083.

HAWAIIAN ELECTRIC COMPANY, INC.
DECOUPLING CALCULATION WORKBOOK
EXCEPTIONAL & OTHER MATTERS - CIP CT-1
\$ in thousands

Line No.	Description (a)	Reference (b)	HECO 2011 Test Year Rate Base		HECO 2015 RAM Rate Base (Note 1)		
			Beg. Balance 12/31/2010 (c)	Budgeted Balance 12/31/2011 (d)	Recorded at 12/31/2014 (e)	RAM Projected Amounts (f)	Estimated at 12/31/2015 (g)
1	CIP CT-1 Regulatory Asset	HECO-WP-D1-001A	\$ -	\$ -	\$ 4,215	\$ (954)	\$ 3,261
2	CIP CT-1 ADIT		-	-			
3	28598 - CIP Interest	Note 2	-	-	(1,215)	275	(940)
4	Adjustment	HECO-WP-D4-003/ HECO-WP-K1-001	-	-	419	(95)	324
5	Total	Sum Line 1 - 4	\$ -	\$ -	\$ 3,419	\$ (774)	\$ 2,645
6	2015 Average Balance						\$ 3,032.2
7	Change in Rate Base						\$ 3,032.2
8	Pretax Rate of Return	Schedule D					11.74%
9	Pretax Return Requirement	Line 7 x 8					\$ 356
10	CIP CT-1 Reg Asset Amortization	HECO-WP-D1-001A					954
11		Sum Line 9 + 10					\$ 1,310
12	Revenue Tax Factor (1/(1-8.885%))	Schedule D					1.0975
13	Return Requirement	Line 11 x 12					\$ 1,437.7

Note 1 See Decision and Order No. 32735, paragraph 107, Page 94 - 95, filed March 31, 2015, in which the commission noted that 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. Accordingly, adjustments for CT-1 costs (for the HECO Companies) and CIS costs (for all of the HECO Companies) as provided in a stipulated agreement approved by the commission as amended in Order No. 31126 in Docket No. 2008-0083 are being treated as Exceptional & Other Matters not subject to the RAM Cap.

Note 2 #28598 - CIP Interest

	Reference	Federal	State	Total
Balance at 12/31/14	HECO-WP-D4-001	(1,026,847)	(187,766)	(1,214,613)
Monthly Amortization:				
Depreciation	HECO-WP-D1-001A, Page 2	20,944	20,944	
AFUDC Debt	HECO-WP-D1-001A, Page 2	17,647	17,647	
AFUDC Full Debt	HECO-WP-D1-001A, Page 2	20,308	20,308	
Total Monthly Amortization		58,898	58,898	
Number of Months		12	12	
Annual Amortization		706,782	706,782	
Tax Rate		32.8947%	6.0150%	
2015 Deferred Taxes		232,494	42,513	275,007
Balance at 12/31/15		(794,354)	(145,253)	(939,607)

HAWAIIAN ELECTRIC COMPANY, INC.
DECOUPLING CALCULATION WORKBOOK
EXCEPTIONAL & OTHER MATTERS - CIS
\$ In thousands

Line No.	Description (a)	Reference (b)	HECO 2011 Test Year Rate Base		HECO 2015 RAM Rate Base (Note 1)		
			Beg. Balance 12/31/2010 (c)	Budgeted Balance 12/31/2011 (d)	Recorded at 12/31/2014 (e)	RAM Projected Amounts (f)	Estimated at 12/31/2015 (g)
1	CIS Def Cost	HECO-WP-D1-001B	\$ -	\$ -	12,705	(1,220)	11,486
2	CIS ADIT						
3	28532 - CIS Project & 28612 CIS Interest	Note 2	-	-	(4,559)	352	(4,207)
4	Adjustment	HECO-WP-D4-003/ HECO-WP-K1-001	-	-	236	(23)	213
5	Total	Sum Line 1 - 4	\$ -	\$ -	\$ 8,382	\$ (890)	\$ 7,491
6	2015 Average Balance						\$ 7,936.6
7	Change in Rate Base						\$ 7,936.6
8	Pretax Rate of Return	Schedule D					11.74%
9	Pretax Return Requirement	Line 7 x 8					\$ 931.8
10	CIS Def Cost Amortization	HECO-WP-D1-001B					\$ 1,220.0
11		Sum Line 9 + 10					\$ 2,151.8
12	Revenue Tax Factor (1/(1-8.885%))	Schedule D					1.0975
13	Return Requirement	Line 11 x 12					\$ 2,361.6

Note 1 See Decision and Order No. 32735, paragraph 107, Page 94 - 95, filed March 31, 2015, in which the commission noted that 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. Accordingly, adjustments for CT-1 costs (for the HECO Companies) and CIS costs (for all of the HECO Companies) as provided in a stipulated agreement approved by the commission as amended in Order No. 31126 in Docket No. 2008-0083 are being treated as Exceptional & Other Matters not subject to the RAM Cap.

Note 2 #28532 - CIS Project Costs & #28612 - CIS Interest

	Reference	Federal	State	Total
1	Balance at 12/31/14	(1,523,643)	(263,902)	(1,787,545)
2	AFUDC ADIT Adjustment	(2,343,396)	(428,505)	(2,771,901)
3	Balance at 12/31/14 As Adjusted	(3,867,039)	(692,407)	(4,559,446)
4	2015 Tax Amortization	(220,307)	(440,616)	
5	State Tax Deduction	28,503		
6	Tax Rate	35.000%	8.0150%	
7	2015 Deferred Taxes	(67,831)	(26,503)	(94,334)
8	Book Amortization	1,147,497	1,147,497	
9	Tax Rate	32.8947%	6.0150%	
10	2015 Deferred Taxes	377,466	69,022	446,488
11	Balance at 12/31/15	(3,557,404)	(649,888)	(4,207,293)

Note 2a ADIT on originating AFUDC was recorded to AFUDC Debt and Equity in the years incurred. This ADIT was properly included in rate base in the past.

Hawaiian Electric Company, Inc.

Sales Forecast for June 2015 to May 2016
in GWh

	2015						2016						Total
	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
R	132.7	139.0	140.4	135.1	141.1	134.0	137.7	145.0	123.7	132.7	124.6	132.2	1,618.2
G	26.6	28.1	28.4	27.1	28.2	26.1	25.8	25.7	25.2	26.5	25.9	27.7	321.3
J	166.9	171.9	179.6	175.2	178.1	166.1	163.9	159.8	159.6	165.7	162.0	173.1	2,021.9
P	237.3	249.6	254.8	245.0	255.4	238.7	239.3	236.7	226.3	236.6	229.6	246.2	2,895.5
F	2.9	2.9	3.0	2.9	3.1	3.0	3.1	3.1	3.0	3.0	2.9	3.0	35.9
Total	566.4	591.5	606.2	585.3	605.9	567.9	569.8	570.3	537.8	564.5	545.0	582.2	6,892.8

Source: Aug 2014 Sales Update

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

		2014				
		January	February	March	April	May
Billed RBA Revenues	Note 1	7,747,326	6,854,664	6,925,810	7,033,350	7,065,222
Net Unbilled Revenues	Note 1	(653,300)	(57,558)	141,335	(33,321)	453,483
Total billed + Unbilled		7,094,026	6,797,106	7,067,145	7,000,029	7,518,705
x % Share for RBA	Note 2	60.7315%	60.7315%	60.7315%	60.7315%	60.7315%
RBA Revenues (Recovery of 12/31/12 RBA balance)		4,308,309	4,127,985	4,291,983	4,251,222	4,566,222
		←----- Schedule B2 -----→				
Less: Revenue Taxes	0.08885	(382,793)	(366,771)	(381,343)	(377,721)	(405,709)
RBA Revenues (Recovery of 12/31/12 RBA balance), net of Revenue Taxes		3,925,516	3,761,214	3,910,640	3,873,501	4,160,513
		←----- Schedule B -----→				

* Differences are due to rounding

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

Note 2:

RBA Rate Adjustment Allocation for June 1, 2013 - May 31, 2014:

RBA Rate Adjustment effective June 1, 2013	a	1.3119	Transmittal No. 13-03 (Decoupling) - RBA Rate Adjustment (Filed May 14, 2013)
			cents per kWh
Revenue for RBA Balance	b	55,398,848	Transmittal No. 13-03 (Decoupling) - RBA Rate Adjustment (Filed May 14, 2013)
Revenue for RAM Revenue Adjustment	c	38,406,620	Transmittal No. 13-03 (Decoupling) - RBA Rate Adjustment (Filed May 14, 2013)
Earnings Sharing Revenue Credits	d	(2,586,191)	Transmittal No. 13-03 (Decoupling) - RBA Rate Adjustment (Filed May 14, 2013)
Total RBA Revenue Adjustment	e	91,219,277	
Percentage share for RBA Balance	f = b/e	60.7315%	Transmittal No. 13-03 (Decoupling) - RBA Rate Adjustment (Filed May 14, 2013)
Percentage share for RAM Revenue Adjustment	g = c/e	42.1036%	Transmittal No. 13-03 (Decoupling) - RBA Rate Adjustment (Filed May 14, 2013)
Percentage share for Earnings Sharing Revenue Credits	h = d/e	-2.8351%	Transmittal No. 13-03 (Decoupling) - RBA Rate Adjustment (Filed May 14, 2013)
RBA Rate Adjustment for RBA Balance	i = a x f	0.79672742	cents per kWh
RBA Rate Adjustment for RAM Revenue Adjustment	j = a x g	0.55235096	cents per kWh
RBA Rate Adjustment for Earnings Sharing Revenue Credits	k = a x h	(0.03719372)	cents per kWh

Hawaiian Electric Company, Inc.
Adjustment For Prior Year RBA Accrual
Recovery of 12/31/13 RBA Balance

		2014						
		June	July	August	September	October	November	December
Billed RBA Revenues	Note 1	9,366,868	12,391,294	12,928,531	13,350,373	12,876,169	12,026,813	11,772,177
Net Unbilled Revenues	Note 1	2,464,399	379,303	187,528	(435,163)	272,827	(203,741)	(130,338)
Total billed + Unbilled		11,831,267	12,770,598	13,116,059	12,915,210	13,148,996	11,823,072	11,641,839
x % Share for RBA	Note 2	51.1926%	51.1926%	51.1926%	51.1926%	51.1926%	51.1926%	51.1926%
RBA Revenues (Recovery of 12/31/13 RBA balance)		6,056,733	6,537,601	6,714,452	6,611,632	6,731,313	6,052,538	5,959,760
		←----- Schedule B2 ----->						
Less: Revenue Taxes	0.08885	(538,141)	(580,866)	(596,579)	(587,444)	(598,077)	(537,768)	(529,525)
RBA Revenues (Recovery of 12/31/13 RBA balance), net of Revenue Taxes		5,518,592	5,956,735	6,117,873	6,024,188	6,133,236	5,514,770	5,430,235
		←----- Schedule B ----->						

* 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, 2014 - May 31, 2015:

RBA Rate Adjustment effective June 1, 2014	a	2.1269	Transmittal No. 14-03 (Decoupling) - RBA Rate Adjustment (Filed May 22, 2014)
			cents per kWh
Revenue for RBA Balance	b	72,638,044	Transmittal No. 14-03 (Decoupling) - RBA Rate Adjustment (Filed May 22, 2014)
Revenue for RAM Revenue Adjustment	c	69,253,659	Transmittal No. 14-03 (Decoupling) - RBA Rate Adjustment (Filed May 22, 2014)
Total RBA Revenue Adjustment	d	141,891,703	
Percentage share for RBA Balance	e = b/d	51.1926%	Transmittal No. 14-03 (Decoupling) - RBA Rate Adjustment (Filed May 22, 2014)
RBA Rate Adjustment for RBA Balance	f = a x e	1.08883025	cents per kWh
RBA Rate Adjustment for RAM Revenue Adjustment	g = a - f	1.03809898	cents per kWh

HECO-WP-B-002
HAWAIIAN ELECTRIC COMPANY, INC.
JAN 2014 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
L1 Monthly Target Revenue	40,652,559	43,763,724	46,145,218	47,779,842	49,250,622	47,288,315	47,834,122	45,001,122	45,001,122
L2 Recorded Adjusted Revenue	38,772,031	40,347,419	40,290,987	42,838,763	43,680,012	41,909,165	42,572,492	40,870,690	41,178,802
L3 Target vs. Actual Revenue	1,880,528	3,416,305	5,854,231	4,940,979	5,570,610	5,380,150	5,261,630	4,130,432	3,822,320
L4 Reversal of Previous Year Accrual	(1,493,978)	(1,588,384)	(4,107,427)	(4,426,857)	(4,465,183)	(4,277,405)	(4,415,078)	(4,102,803)	(4,255,258)
L5 Net RBA Change	386,550	1,827,921	1,746,804	514,022	1,105,427	1,102,745	846,552	27,629	(432,938)
L6 Beginning RBA Balance	56,053,424	56,721,208	58,635,849	60,913,594	61,546,805	63,126,184	64,552,840	65,724,351	66,230,945
L7 End Balance Before Interest	56,439,974	58,549,129	60,882,453	61,427,616	62,652,252	64,228,909	65,399,392	66,751,960	67,988,007
L8 (L6 + L7) + 2	56,246,699	57,653,169	59,708,051	61,170,605	62,099,528	63,677,537	64,976,116	66,528,165	68,014,476
L9 L8 x 6% + 12 Interest	281,233	288,176	298,545	305,853	310,498	316,388	324,881	328,681	330,072
L10 L7 + L9	56,721,208	58,837,305	60,880,998	61,733,470	62,962,750	64,547,297	65,724,273	66,080,671	66,128,079

Target vs Actual Difference:	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
Recorded Adjusted Revenues - Unadjusted	38,772,031	40,347,419	40,290,987	42,838,763	43,680,012	41,909,165	42,572,492	40,870,690	41,178,802
Billing Adjustments	(6,954)	(6,954)	(6,954)	(7,905)	(6,954)	(7,005)	(6,791)	(7,004)	(7,004)
Revised Revenues	38,765,077	40,340,464	40,284,033	42,831,758	43,673,058	41,902,160	42,565,701	40,863,686	41,171,798
Target	40,652,559	43,763,724	46,145,218	47,779,842	49,250,622	47,288,315	47,834,122	45,001,122	45,001,122
	1,887,482	3,423,260	5,861,185	4,947,084	5,577,564	5,387,155	5,268,421	4,137,436	3,822,320

Total Billing Adjustment
(55,522)

AS REVISED

AS REVISED	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
L1 Monthly Target Revenue	40,652,559	43,763,724	46,145,218	47,779,842	49,250,622	47,288,315	47,834,122	45,001,122	45,001,122
L2 Recorded Adjusted Revenue	38,765,077	40,340,464	40,284,033	42,831,758	43,673,058	41,902,160	42,565,701	40,863,686	41,171,798
L3 Target vs. Actual Revenue	1,887,482	3,423,260	5,861,185	4,947,084	5,577,564	5,387,155	5,268,421	4,137,436	3,822,320
L4 Reversal of Previous Year Accrual	(1,493,978)	(1,588,384)	(4,107,427)	(4,426,857)	(4,465,183)	(4,277,405)	(4,415,078)	(4,102,803)	(4,255,258)
L5 Net RBA Change	393,504	1,834,876	1,753,758	520,227	1,112,401	1,105,750	853,343	26,833	(432,938)
L6 Beginning RBA Balance	56,053,424	56,721,208	58,635,849	60,913,594	61,574,849	63,161,319	64,595,193	65,773,723	66,287,585
L7 End Balance Before Interest	56,446,928	58,562,955	60,893,285	61,455,539	62,687,250	64,271,069	65,448,536	66,808,356	68,084,847
L8 (L6 + L7) + 2	56,250,178	57,845,587	59,726,406	61,195,026	62,131,050	63,716,194	65,021,865	66,791,040	68,071,116
L9 L8 x 6% + 12 Interest	281,251	288,228	298,632	305,975	310,655	316,581	325,109	328,955	330,356
L10 L7 + L9	56,728,179	58,851,183	60,901,917	61,761,514	62,997,905	64,589,650	65,773,845	66,137,311	66,185,003

Total RBA Adjustment
55,522

Revised Adjustment to Revenue	1,887,482	3,423,260	5,861,185	4,947,084	5,577,564	5,387,155	5,268,421	4,137,436	3,822,320
RBA Adjustment Recorded to Revenue	1,880,528	3,416,305	5,854,231	4,940,979	5,570,610	5,380,150	5,261,630	4,130,432	3,822,320
Adjustment to Revenue	6,954	6,954	6,954	7,005	6,954	7,005	6,791	7,004	7,004

Revised Interest	281,251	288,228	298,632	305,975	310,655	316,581	325,109	328,955	330,356
Interest Recorded	281,233	288,176	298,545	305,853	310,498	316,388	324,881	328,681	330,072
Adjustment to Interest	18	52	87	122	157	193	228	284	284

Note (1):
Amounts may not add exactly due to rounding.

Note (2):
The Company recorded an adjustment to the RBA related to miscellaneous customer billing adjustments that were processed in January 2014. The Company recalculated the RBA, including interest, based on the billing adjustments in the prior month incurred.

HECO-WP-B-003
HAWAIIAN ELECTRIC COMPANY, INC.
MAR 2014 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sept-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12
L1 Monthly Target Revenue	36,452,740	35,691,973	37,812,917	39,046,559	41,350,321	45,898,046	44,070,248	44,577,970	41,937,817	41,937,817	41,125,482	36,860,599
L2 Recorded Adjusted Revenue	37,206,214	35,823,429	37,102,931	36,409,589	38,728,938	38,485,482	38,385,130	38,799,920	36,574,222	39,961,425	39,527,598	37,356,068
L3 Target vs Actual Revenue	(753,474)	(141,456)	709,986	2,636,970	2,621,383	7,412,564	5,685,118	5,778,050	5,363,595	1,976,392	1,597,863	(495,469)
L4 Reversal of Previous Year Accrual	(753,474)	(141,456)	709,986	2,636,970	2,621,383	7,412,564	5,685,118	5,778,050	5,363,595	1,976,392	1,597,863	(495,469)
L5 Beginning RBA Balance		(837,054)	(983,048)	(276,202)	2,365,980	5,005,746	12,445,972	18,207,533	24,035,403	18,705,434	20,780,294	22,486,053
L6 End Balance Before Interest	(753,474)	(978,510)	(273,062)	2,360,768	4,987,363	12,418,310	18,131,060	23,985,583	29,396,988	20,681,828	22,378,157	21,980,564
L7 (L6 + L5)	(753,474)	(978,510)	(273,062)	2,360,768	4,987,363	12,418,310	18,131,060	23,985,583	29,396,988	20,681,828	22,378,157	21,980,564
L8 (L6 + L7) + 2 or (L6 + L7) + 2 - [1]	(376,737)	(907,762)	(628,055)	1,042,283	3,676,872	8,712,028	15,266,531	21,096,558	26,717,201	19,693,630	21,578,226	22,238,319
L9 L8 x (6% or 1.75%) + 12	(1,864)	(4,539)	(3,140)	5,215	18,383	43,565	76,443	105,483	133,593	98,478	107,896	111,192
L10 L7 + L9	(755,358)	(983,048)	(276,202)	2,365,980	5,005,746	12,461,870	18,207,533	24,091,066	29,532,584	20,780,294	22,486,053	22,101,776
Target vs Actual Difference:												
Recorded Adjusted Revenues - Unadjusted	37,206,214	35,823,429	37,102,931	36,409,589	38,728,938	38,485,482	38,385,130	38,799,920	36,574,222	39,961,425	39,527,598	37,356,068
Billing Adjustments	(182)	(174)	(184)	(165)	(153)	(154)	(156)	(164)	(179)	(180)	(170)	(176)
Revised Revenues	37,206,032	35,823,255	37,102,747	36,409,424	38,728,785	38,485,328	38,384,974	38,799,756	36,574,043	39,961,245	39,527,429	37,355,892
Target	36,452,740	35,691,973	37,812,917	39,046,559	41,350,321	45,898,046	44,070,248	44,577,970	41,937,817	41,937,817	41,125,482	36,860,599
	(753,292)	(141,282)	710,170	2,637,135	2,621,536	7,412,718	5,685,274	5,778,214	5,363,774	1,976,572	1,598,033	(495,293)

AS REVISED	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sept-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12
L1 Monthly Target Revenue	36,452,740	35,691,973	37,812,917	39,046,559	41,350,321	45,898,046	44,070,248	44,577,970	41,937,817	41,937,817	41,125,482	36,860,599
L2 Recorded Adjusted Revenue	37,206,032	35,823,255	37,102,747	36,409,424	38,728,785	38,485,328	38,384,974	38,799,756	36,574,043	39,961,245	39,527,429	37,355,892
L3 Target vs Actual Revenue	(753,292)	(141,282)	710,170	2,637,135	2,621,536	7,412,718	5,685,274	5,778,214	5,363,774	1,976,572	1,598,033	(495,293)
L4 Reversal of Previous Year Accrual	(753,292)	(141,282)	710,170	2,637,135	2,621,536	7,412,718	5,685,274	5,778,214	5,363,774	1,976,572	1,598,033	(495,293)
L5 Beginning RBA Balance		(836,871)	(982,891)	(275,659)	2,366,691	5,006,614	12,446,999	18,206,721	24,036,721	18,706,978	20,782,026	22,487,964
L6 End Balance Before Interest	(753,292)	(978,153)	(272,521)	2,361,476	4,988,227	12,419,332	18,132,273	23,986,935	29,400,535	20,683,550	22,380,059	21,992,671
L7 (L6 + L5)	(753,292)	(978,153)	(272,521)	2,361,476	4,988,227	12,419,332	18,132,273	23,986,935	29,400,535	20,683,550	22,380,059	21,992,671
L8 (L6 + L7) + 2 or (L6 + L7) + 2 - [1]	(376,646)	(907,512)	(627,606)	1,042,909	3,677,459	8,712,973	15,289,636	21,097,828	26,718,648	19,695,264	21,581,043	22,240,318
L9 L8 x (6% or 1.75%) + 12	(1,863)	(4,538)	(3,138)	5,215	18,387	43,565	76,448	105,489	133,593	98,478	107,896	111,192
L10 L7 + L9	(755,155)	(982,691)	(275,659)	2,366,691	5,006,614	12,462,897	18,208,721	24,092,424	29,534,128	20,782,028	22,487,964	22,103,673
Revised Adjustment to Revenue	(753,292)	(141,282)	710,170	2,637,135	2,621,536	7,412,718	5,685,274	5,778,214	5,363,774	1,976,572	1,598,033	(495,293)
RBA Adjustment Recorded to Revenue	(753,474)	(141,456)	709,986	2,636,970	2,621,383	7,412,564	5,685,118	5,778,050	5,363,595	1,976,392	1,597,863	(495,469)
Adjustment to Revenue	182	174	184	165	153	154	156	164	179	180	170	176

Note (1):
Totals may not add exactly due to rounding.

Note (2):
The Company recorded an adjustment to the RBA related to miscellaneous customer billing adjustments that were processed in March 2014. The Company recalculated the RBA based on the billing adjustments in the prior month incurred. No interest impact was calculated as the adjustments did not meet the interest recalculation threshold of \$50,000 per the Revenue Balancing Account provision tariff.

HECO-WP-B-003
HAWAIIAN ELECTRIC COMPANY, INC.
MAR 2014 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED

	Mar-12	Apr-12	May-12	June-12	July-12	Aug-12	Sept-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13
L1	41,125,462	40,152,722	43,255,064	43,980,356	45,538,102	46,940,073	45,011,146	45,529,707	42,833,187	42,830,375	42,000,731	37,645,099
L2	38,621,842	38,384,038	41,640,204	37,944,203	40,909,846	41,328,298	39,445,423	41,324,162	38,638,624	40,479,114	38,528,431	35,028,258
L3	2,503,620	1,768,684	1,614,860	6,036,153	4,628,456	5,611,775	5,565,723	4,205,545	4,194,563	2,351,261	3,472,300	2,616,841
L4	-	-	(1,546,140)	(1,679,771)	(1,811,187)	(1,659,897)	(1,540,056)	(1,591,381)	(1,540,056)	(1,591,381)	(1,499,941)	(1,322,999)
L5	2,503,620	1,768,684	1,614,860	4,900,013	3,017,269	3,932,004	3,996,246	2,545,648	2,654,507	759,880	1,972,359	1,293,842
L6	21,734,834	24,353,387	26,243,191	27,983,304	32,634,509	35,822,493	39,620,231	43,874,568	48,595,703	49,478,876	50,488,050	52,735,438
L7	24,238,454	26,122,071	27,658,051	32,483,317	35,651,778	39,754,497	43,618,477	46,370,216	49,250,210	50,238,756	52,460,408	54,029,280
L8	22,986,644	23,237,729	27,658,021	30,238,311	34,143,143	37,788,495	41,618,354	45,097,392	47,922,957	49,558,816	51,474,227	53,382,359
L9	114,933	126,189	135,253	151,192	170,718	188,942	208,092	225,487	239,615	249,294	257,371	266,912
L10	24,353,387	26,248,260	27,993,304	32,634,509	35,822,493	39,943,440	43,824,568	46,595,703	49,489,825	50,488,050	52,717,779	54,286,192

Target vs Actual Difference:

Recorded Adjusted Revenues - Unadjusted	38,621,842	38,384,038	41,640,204	37,944,203	40,909,846	41,328,298	39,445,423	41,324,162	38,638,624	40,479,114	38,528,431	35,028,258
Billing Adjustments	(184)	(175)	(175)	(159)	(167)	(163)	(173)	(175)	(177)	(191)	(205)	(200)
Revised Revenues	38,621,658	38,383,863	41,640,029	37,944,044	40,909,679	41,328,135	39,445,250	41,323,987	38,638,447	40,478,923	38,528,226	35,028,058
Target	41,125,462	40,152,722	43,255,064	43,980,356	45,538,102	46,940,073	45,011,146	45,529,707	42,833,187	42,830,375	42,000,731	37,645,099
	2,503,804	1,768,659	1,615,035	6,036,312	4,628,623	5,611,938	5,565,696	4,205,720	4,194,740	2,351,452	3,472,505	2,617,041

AS REVISED

	Mar-12	Apr-12	May-12	June-12	July-12	Aug-12	Sept-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13
L1	41,125,462	40,152,722	43,255,064	43,980,356	45,538,102	46,940,073	45,011,146	45,529,707	42,833,187	42,830,375	42,000,731	37,645,099
L2	38,621,658	38,383,863	41,640,029	37,944,044	40,909,679	41,328,135	39,445,250	41,323,987	38,638,447	40,478,923	38,528,226	35,028,058
L3	2,503,804	1,768,659	1,615,035	6,036,312	4,628,623	5,611,938	5,565,696	4,205,720	4,194,740	2,351,452	3,472,505	2,617,041
L4	-	-	(1,546,140)	(1,679,771)	(1,811,187)	(1,659,897)	(1,591,381)	(1,591,381)	(1,540,056)	(1,591,381)	(1,499,941)	(1,322,999)
L5	2,503,804	1,768,659	1,615,035	4,900,172	3,017,436	3,932,187	3,996,419	2,545,823	2,654,684	760,071	1,972,564	1,294,042
L6	21,736,931	24,355,679	26,245,670	27,985,971	32,637,348	35,825,514	39,623,430	43,877,957	48,599,284	49,482,652	50,492,036	52,739,651
L7	24,240,735	26,124,538	27,660,705	32,496,143	35,654,784	39,757,681	43,619,849	46,373,780	49,253,968	50,242,723	52,464,600	54,033,693
L8	22,988,833	23,240,109	27,651,188	30,241,057	34,146,066	37,791,598	41,621,640	45,100,869	47,926,626	49,562,688	51,478,318	53,386,672
L9	114,944	126,201	135,268	151,205	170,730	188,958	208,108	225,504	239,633	249,313	257,392	266,933
L10	24,355,679	26,250,739	27,995,971	32,637,348	35,825,514	39,946,639	43,827,957	46,599,284	49,493,601	50,492,036	52,721,992	54,300,626

Revised Adjustment to Revenue

RBA Adjustment Recorded to Revenue	2,503,804	1,768,659	1,615,035	6,036,312	4,628,623	5,611,938	5,565,696	4,205,720	4,194,740	2,351,452	3,472,505	2,617,041
Adjustment to Revenue	184	175	175	159	167	183	173	175	177	191	205	200

HECO-WP-B-003
HAWAIIAN ELECTRIC COMPANY, INC.
MAR 2014 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED

	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14
L1	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,622	47,289,315	47,834,122	45,001,122	45,001,122	44,129,429	39,553,044
L2	39,226,528	38,772,031	40,347,419	40,290,987	42,838,763	43,680,012	41,909,165	42,572,492	40,870,690	41,178,802	40,155,441	37,871,094
L3	2,774,203	1,880,528	3,419,305	5,854,231	4,940,879	5,570,610	5,380,150	5,261,810	4,130,432	3,822,320	3,973,988	1,681,950
L4	(1,486,048)	(1,493,978)	(1,586,384)	(4,107,427)	(4,426,857)	(4,465,163)	(4,277,405)	(4,415,078)	(4,102,803)	(4,255,258)	(3,925,516)	(3,761,214)
L5	1,288,155	386,550	1,927,921	1,748,804	514,022	1,105,447	1,102,745	846,552	27,629	(432,938)	48,472	(2,075,264)
L6	54,300,097	56,053,424	56,721,208	58,835,849	60,913,594	61,546,905	63,126,164	64,552,840	65,724,351	66,230,945	66,185,006	66,564,524
L7	55,588,252	56,439,974	58,548,129	60,582,453	61,427,616	62,652,252	64,228,909	65,398,392	65,751,980	65,798,007	66,233,478	64,485,260
L8	54,944,175	56,246,689	57,933,169	59,709,051	61,170,605	62,099,528	63,877,537	64,976,116	65,738,165	66,014,476	66,209,242	65,524,882
L9	274,721	281,233	288,178	296,345	305,853	310,498	310,388	324,861	328,891	330,072	331,046	327,624
L10	55,862,973	56,721,208	58,837,305	60,890,989	61,733,470	62,962,750	64,547,297	65,724,273	66,080,871	66,128,079	66,564,524	64,812,884
Target vs Actual Difference:	39,226,528	38,772,031	40,347,419	40,290,987	42,838,763	43,680,012	41,909,165	42,572,492	40,870,690	41,178,802	40,155,441	37,871,094
Billing Adjustments	(187)	(182)	(188)	(177)	(172)	(178)	(177)	(180)	(187)	(4,249)	(3,786)	(3,823)
Revised Revenues	39,226,331	38,771,848	40,347,231	40,290,810	42,838,591	43,679,833	41,908,988	42,572,312	40,870,503	41,174,553	40,151,655	37,867,271
Target	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,622	47,289,315	47,834,122	45,001,122	45,001,122	44,129,429	39,553,044
	2,774,400	1,880,710	3,419,493	5,854,408	4,941,051	5,570,789	5,380,327	5,261,810	4,130,619	3,822,569	3,977,774	1,685,773

Total Billing Adjustment (17,876)

AS REVISED

	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14
L1	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,622	47,289,315	47,834,122	45,001,122	45,001,122	44,129,429	39,553,044
L2	39,226,528	38,771,848	40,347,231	40,290,810	42,838,591	43,679,833	41,908,988	42,572,312	40,870,503	41,174,553	40,151,655	37,867,271
L3	2,774,400	1,880,710	3,419,493	5,854,408	4,941,051	5,570,789	5,380,327	5,261,810	4,130,619	3,822,569	3,977,774	1,685,773
L4	(1,486,048)	(1,493,978)	(1,586,384)	(4,107,427)	(4,426,857)	(4,465,163)	(4,277,405)	(4,415,078)	(4,102,803)	(4,255,258)	(3,925,516)	(3,761,214)
L5	1,288,352	386,732	1,928,109	1,748,981	514,194	1,105,626	1,102,922	846,732	27,816	(428,689)	52,258	(2,075,441)
L6	54,300,431	56,058,078	56,726,068	58,840,722	60,918,870	61,552,280	63,131,845	64,558,727	65,730,447	66,237,259	66,195,612	66,578,979
L7	55,592,883	56,444,810	58,554,177	60,587,703	61,433,064	62,657,906	64,234,767	65,405,459	65,758,263	65,808,570	66,247,870	64,503,538
L8	54,948,707	56,251,444	57,940,123	59,714,213	61,175,967	62,105,093	63,883,306	64,982,093	65,744,355	66,022,915	66,221,741	65,541,259
L9	274,744	281,257	288,201	296,571	305,860	310,525	318,417	324,910	328,722	330,115	331,109	327,706
L10	55,867,827	56,726,068	58,842,378	60,896,275	61,738,945	62,968,431	64,553,184	65,730,369	66,086,965	66,138,685	66,578,979	64,831,244
Revised Adjustment to Revenue	2,774,400	1,880,710	3,419,493	5,854,408	4,941,051	5,570,789	5,380,327	5,261,810	4,130,619	3,822,569	3,977,774	1,685,773
RBA Adjustment Recorded to Revenue	2,774,203	1,880,528	3,419,305	5,854,231	4,940,879	5,570,610	5,380,150	5,261,630	4,130,432	3,822,320	3,973,988	1,681,950
Adjustment to Revenue	197	182	188	177	172	178	177	180	187	4,249	3,786	3,823

Total RBA Adjustment 17,876

HECO-WP-B-004
HAWAIIAN ELECTRIC COMPANY, INC.
APR 2014 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED

	Sept-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	June-12	July-12	Aug-12
L1	44,070,248	44,577,970	41,937,817	41,937,817	41,125,462	36,860,599	41,125,462	40,152,722	43,255,064	43,980,356	45,538,102	46,940,073
L2	38,385,130	38,795,920	36,574,222	39,861,425	39,527,425	37,356,068	38,621,842	38,384,038	41,640,204	37,944,203	40,909,646	41,328,288
L3	5,685,118	5,778,050	5,363,595	1,978,392	1,597,863	(495,469)	2,503,620	1,768,684	1,814,975	6,036,153	4,628,456	5,611,775
L4	5,685,118	5,778,050	5,363,595	1,978,392	1,597,863	(495,469)	2,503,620	1,768,684	1,814,975	(1,546,140)	(1,811,187)	(1,678,771)
L5	12,445,972	18,207,533	24,035,403	18,705,434	20,780,294	22,486,053	21,734,834	24,353,387	26,243,191	27,993,304	32,634,509	35,822,493
L6	18,131,090	23,985,583	29,388,988	20,681,826	22,378,157	21,990,364	24,236,454	26,122,071	27,858,051	32,483,317	35,651,778	37,754,487
L7	15,286,531	21,096,558	26,717,201	19,693,530	21,579,228	22,238,319	22,986,644	25,237,729	27,050,621	30,238,311	34,143,143	37,788,495
L8	76,443	105,483	133,586	98,488	107,898	111,192	114,933	126,188	135,253	151,192	170,716	188,942
L9	18,207,533	24,091,066	29,532,564	20,780,294	22,486,053	22,101,776	24,353,387	26,248,260	27,993,304	32,634,509	35,822,493	39,943,440
L10												
Target vs Actual Difference:	38,385,130	38,795,920	36,574,222	39,861,425	39,527,425	37,356,068	38,621,842	38,384,038	41,640,204	37,944,203	40,909,646	41,328,288
Recorded Adjusted Revenues - Unadjusted	(40)	(62)	(94)	(161)	(174)	(174)	(81)	(129)	(135)	(139)	(146)	(184)
Billing Adjustments	38,385,090	38,795,858	36,574,128	39,861,264	39,527,251	37,355,977	38,621,713	38,383,903	41,640,069	37,944,064	40,909,500	41,328,104
Revised Revenues	44,070,248	44,577,970	41,937,817	41,937,817	41,125,462	36,860,599	41,125,462	40,152,722	43,255,064	43,980,356	45,538,102	46,940,073
Target	5,685,158	5,778,112	5,363,689	1,978,553	1,598,037	(495,378)	2,503,749	1,768,819	1,814,975	6,036,292	4,628,602	5,611,969

AS REVISED

	Sept-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	June-12	July-12	Aug-12
L1	44,070,248	44,577,970	41,937,817	41,937,817	41,125,462	36,860,599	41,125,462	40,152,722	43,255,064	43,980,356	45,538,102	46,940,073
L2	38,385,090	38,795,858	36,574,128	39,861,264	39,527,251	37,355,977	38,621,713	38,383,903	41,640,069	37,944,064	40,909,500	41,328,104
L3	5,685,158	5,778,112	5,363,689	1,978,553	1,598,037	(495,378)	2,503,749	1,768,819	1,814,975	6,036,292	4,628,602	5,611,969
L4	5,685,158	5,778,112	5,363,689	1,978,553	1,598,037	(495,378)	2,503,749	1,768,819	1,814,975	(1,546,140)	(1,811,187)	(1,678,771)
L5	12,445,970	18,207,571	24,035,503	18,705,629	20,780,652	22,486,587	21,735,461	24,354,147	26,244,090	27,994,323	32,635,672	35,823,809
L6	18,131,128	23,985,683	29,389,192	20,682,182	22,378,689	21,991,209	24,239,210	26,122,968	27,859,065	32,484,475	35,653,087	37,756,007
L7	15,286,549	21,096,627	26,717,348	19,693,905	21,579,671	22,238,898	22,987,336	25,238,557	27,051,578	30,239,399	34,144,380	37,789,908
L8	76,443	105,483	133,587	98,470	107,898	111,194	114,937	126,193	135,258	151,197	170,722	188,950
L9	18,207,571	24,091,166	29,532,779	20,780,652	22,486,587	22,102,403	24,354,147	26,248,159	27,994,323	32,635,672	35,823,809	39,944,657
L10												
Revised Adjustment to Revenue	5,685,158	5,778,112	5,363,689	1,978,553	1,598,037	(495,378)	2,503,749	1,768,819	1,814,975	6,036,292	4,628,602	5,611,969
RBA Adjustment Recorded to Revenue	5,685,118	5,778,050	5,363,595	1,978,392	1,597,863	(495,469)	2,503,620	1,768,684	1,814,860	6,036,153	4,628,456	5,611,775
Adjustment to Revenue	40	62	94	161	174	174	91	129	135	139	146	184

Note (1):
Totals may not add exactly due to rounding.

Note (2):
The Company recorded an adjustment to the RBA related to miscellaneous customer billing adjustments that were processed in April 2014. The Company recalculated the RBA based on the billing adjustments in the prior month incurred. No interest impact was calculated as the adjustments did not meet the interest recalculation threshold of \$50,000 per the Revenue Balancing Account provision term.

HECO-WP-B-004
HAWAIIAN ELECTRIC COMPANY, INC.
APR 2014 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED

	Sept-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13
L1	45,011,146	45,529,707	42,833,187	42,830,375	42,000,731	37,645,099	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,622
L2	39,445,423	41,324,162	38,638,624	40,478,114	38,528,431	35,028,258	39,226,528	38,772,031	40,347,419	40,290,987	42,838,763	43,680,012
L3	5,565,723	4,205,545	4,194,563	2,351,261	3,472,300	2,816,841	2,774,203	1,880,528	3,416,305	5,854,231	4,940,879	5,570,610
L4	(1,569,477)	(1,659,897)	(1,540,056)	(1,591,381)	(1,498,941)	(1,322,969)	(1,486,048)	(1,493,978)	(1,588,384)	(4,107,427)	(4,428,857)	(4,485,193)
L5	3,998,246	2,545,648	2,654,507	759,880	1,972,359	1,293,840	1,288,155	386,550	1,827,921	1,748,804	514,022	1,105,447
L6	39,620,231	43,824,568	46,595,703	49,478,976	50,488,050	52,735,438	54,300,097	56,053,424	56,721,208	58,835,649	60,913,584	61,548,805
L7	43,616,477	46,370,216	49,250,210	50,238,756	52,468,408	54,029,280	55,588,252	56,439,974	58,549,129	60,582,453	61,427,616	62,652,252
L8	41,618,354	45,097,392	47,922,957	49,858,816	51,474,227	53,382,389	54,944,175	56,246,699	57,655,169	59,709,051	61,170,605	62,099,528
L9	208,082	225,487	239,615	249,294	257,371	266,912	274,721	281,233	288,178	298,545	305,853	310,498
L10	43,824,568	46,595,703	49,499,825	50,489,825	52,717,779	54,296,192	55,862,973	56,721,208	58,837,305	60,880,999	61,733,470	62,962,750

Target vs Actual Difference:
Recorded Adjusted Revenues - Unadjusted
Billing Adjustments
Revised Revenues
Target

	39,445,423	41,324,162	38,638,624	40,478,114	38,528,431	35,028,258	39,226,528	38,772,031	40,347,419	40,290,987	42,838,763	43,680,012
	(128)	(86)	(90)	(77)	(142)	(77)	(72)	(71)	(82)	(107)	(107)	(91)
	39,445,295	41,324,076	38,638,534	40,479,037	38,528,289	35,028,181	39,226,456	38,771,960	40,347,337	40,290,880	42,838,656	43,679,921
	45,011,146	45,529,707	42,833,187	42,830,375	42,000,731	37,645,099	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,622
	5,565,851	4,205,631	4,194,653	2,351,338	3,472,442	2,816,918	2,774,275	1,880,599	3,416,387	5,854,338	4,940,986	5,570,701

AS REVISED

	Sept-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13
L1	45,011,146	45,529,707	42,833,187	42,830,375	42,000,731	37,645,099	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,622
L2	39,445,295	41,324,076	38,638,534	40,479,037	38,528,289	35,028,181	39,226,456	38,771,960	40,347,337	40,290,880	42,838,656	43,679,921
L4	5,565,851	4,205,631	4,194,653	2,351,338	3,472,442	2,816,918	2,774,275	1,880,599	3,416,387	5,854,338	4,940,986	5,570,701
L5	(1,569,477)	(1,659,897)	(1,540,056)	(1,591,381)	(1,498,941)	(1,322,969)	(1,486,048)	(1,493,978)	(1,588,384)	(4,107,427)	(4,428,857)	(4,485,193)
L6	3,998,374	2,545,734	2,654,597	759,857	1,972,501	1,293,919	1,288,003	386,621	1,828,003	1,748,911	514,129	1,105,538
L7	39,621,748	43,826,222	46,597,451	49,480,723	50,489,984	52,737,525	54,302,271	56,055,681	56,723,548	58,838,083	60,916,148	61,548,478
L8	43,618,122	46,371,956	49,252,048	50,240,680	52,482,485	54,031,444	55,590,488	56,442,302	58,551,551	60,584,984	61,430,277	62,655,017
L9	41,619,935	45,099,089	47,924,750	49,860,702	51,476,235	53,384,485	54,944,385	56,248,992	57,637,550	59,711,539	61,173,213	62,102,248
L10	208,100	225,495	239,624	249,304	257,381	266,922	274,732	281,245	288,188	298,558	305,866	310,511
	43,828,222	46,597,451	49,491,872	50,489,884	52,719,866	54,298,368	55,865,230	56,723,548	58,839,739	60,883,553	61,736,144	62,965,528

Revised Adjustment to Revenue
RBA Adjustment Recorded to Revenue
Adjustment to Revenue

	5,565,851	4,205,631	4,194,653	2,351,338	3,472,442	2,816,918	2,774,275	1,880,599	3,416,387	5,854,338	4,940,986	5,570,701
	5,565,723	4,205,545	4,194,563	2,351,261	3,472,300	2,816,841	2,774,203	1,880,528	3,416,305	5,854,231	4,940,879	5,570,610
	128	86	90	77	142	77	72	71	82	107	107	91

HECO-WP-B-004
HAWAIIAN ELECTRIC COMPANY, INC.
APR 2014 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED

	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
L1 Monthly Target Revenue	47,289,315	47,834,122	45,001,122	45,001,122	44,129,429	39,553,044	44,129,429
L2 Recorded Adjusted Revenue	41,909,036	42,572,492	40,870,690	41,178,802	40,155,441	37,871,094	40,445,741
L3 Target vs. Actual Revenue	5,380,150	5,261,630	4,130,432	3,822,320	3,973,988	1,681,950	3,683,688
L4 Reversal of Previous Year Accrual	(4,277,405)	(4,415,078)	(4,102,803)	(4,255,256)	(3,925,516)	(3,761,214)	(3,910,640)
L5 Net RBA Change	1,102,745	846,552	27,629	(432,938)	48,472	(2,079,264)	(226,952)
L6 Beginning RBA Balance	63,128,942	64,552,840	65,724,351	66,230,945	66,185,006	66,564,524	64,830,562
L7 End Balance Before Interest	64,238,909	65,399,392	65,751,980	65,798,007	66,233,478	64,485,260	64,603,610
L8 (L6 + L7) - 2 or (L6 + L7) + 2 - (1)	63,677,537	64,976,116	65,738,165	66,014,476	66,209,242	63,524,882	64,717,086
L9 L8 x (6% or 1.75%) + 12	318,388	324,861	328,691	330,072	331,046	327,624	94,379
L10 L7 + L9	64,547,297	65,724,273	66,060,871	66,128,079	66,564,524	64,812,884	64,697,989
Target vs Actual Difference:	41,909,036	42,572,492	40,870,690	41,178,802	40,155,441	37,871,094	40,445,741
Recorded Adjusted Revenues - Unadjusted	(129)	(84)	(85)	7	14	-	-
Billing Adjustments	41,909,036	42,572,408	40,870,605	41,178,809	40,155,455	37,871,094	40,445,741
Revised Revenues	47,289,315	47,834,122	45,001,122	45,001,122	44,129,429	39,553,044	44,129,429
Target	5,380,279	5,261,714	4,130,517	3,822,313	3,973,974	1,681,950	3,683,688

Total Billing Adjustment
(2,867)

AS REVISED

	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
L1 Monthly Target Revenue	47,289,315	47,834,122	45,001,122	45,001,122	44,129,429	39,553,044	44,129,429
L2 Recorded Adjusted Revenue	41,909,036	42,572,408	40,870,605	41,178,809	40,155,455	37,871,094	40,445,741
L3 Target vs. Actual Revenue	5,380,279	5,261,714	4,130,517	3,822,313	3,973,974	1,681,950	3,683,688
L4 Reversal of Previous Year Accrual	(4,277,405)	(4,415,078)	(4,102,803)	(4,255,256)	(3,925,516)	(3,761,214)	(3,910,640)
L5 Net RBA Change	1,102,874	846,636	27,714	(432,945)	48,458	(2,079,264)	(226,952)
L6 Beginning RBA Balance	63,128,942	64,555,761	65,727,370	66,234,064	66,186,134	66,567,654	64,833,708
L7 End Balance Before Interest	64,231,816	65,402,397	65,755,084	65,801,119	66,236,592	64,488,390	64,606,756
L8 (L6 + L7) - 2 or (L6 + L7) + 2 - (1)	63,680,379	64,979,079	65,741,227	66,017,592	66,212,363	65,528,022	64,720,232
L9 L8 x (6% or 1.75%) + 12	318,402	324,895	328,706	330,088	331,062	327,640	94,384
L10 L7 + L9	64,550,218	65,727,292	66,063,790	66,131,207	66,567,654	64,816,030	64,701,140
Revised Adjustment to Revenue	5,380,279	5,261,714	4,130,517	3,822,313	3,973,974	1,681,950	3,683,688
RBA Adjustment Recorded to Revenue	5,380,150	5,261,630	4,130,432	3,822,320	3,973,988	1,681,950	3,683,688
Adjustment to Revenue	129	84	85	(7)	(14)	-	2,867

HECO-WP-B-005
HAWAIIAN ELECTRIC COMPANY, INC.
MAY 2014 ADJUSTMENT - RBA INTEREST ADJUSTMENT

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

Line No.	Month	Beginning Balance	Target Revenues	Recorded, Adjusted Revenue	Variance to RBA	Adjustment for prior year RBA accrual	Adjustment	Tax-effected Balance Subject to Interest	Interest at 8% or 1.75%/year	Ending Balance
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Monthly RBA Balance and Activity (Monthly PUC Rpt., Pg. 0A)										
1	December	\$ 66,080,870	\$ 45,001,122	\$ 41,178,802	\$ 3,822,320	\$ (4,255,258)	\$ 150,274	n/a	\$ 330,072	\$ 66,128,079
2	January 2014 Adjustment									\$ 56,927
3	REVISED 2013 December									\$ 68,185,006
4										
5	2014 January	\$ 66,128,079	\$ 44,129,429	\$ 40,155,441	\$ 3,973,988	\$ (3,925,516)	\$ 56,927	\$ 40,447,228	\$ 202,236	\$ 66,435,714
6	February	\$ 66,435,714	\$ 39,553,044	\$ 37,871,094	\$ 1,681,950	\$ (3,781,214)	\$ -	\$ 39,950,468	\$ 189,752	\$ 64,558,202
7	March	\$ 64,558,202	\$ 44,129,429	\$ 40,445,741	\$ 3,683,688	\$ (3,910,640)	\$ 17,678	\$ 39,378,861	\$ 57,428	\$ 64,404,358
8	April	\$ 64,404,358	\$ 42,712,929	\$ 39,888,701	\$ 2,824,228	\$ (3,873,501)	\$ 2,887	\$ 39,025,884	\$ 56,913	\$ 63,414,883
9	May	\$ -	\$ 45,981,776	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10	June	\$ -	\$ 48,725,408	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11	July	\$ -	\$ 50,451,219	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12	August	\$ -	\$ 52,004,449	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13	September	\$ -	\$ 49,933,476	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14	October	\$ -	\$ 50,508,746	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15	November	\$ -	\$ 47,517,340	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	December	\$ -	\$ 47,517,340	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

01/14-04/14 RBA Interest Revised \$ 516,329
 01/14-04/14 RBA Interest Recorded \$ 848,840
 RBA Interest Adjustment \$ (330,311) HECO-WP-B-005 (Page 2 of 2)

Note (1):
 In connection with Decision and Order No. 31908 on Schedule A of the Decoupling Investigation, issued on February 7, 2014, the Company received approval on April 28, 2014 from the Internal Revenue Service to change its tax treatment of RBA revenues from the book accrual method of revenue balancing account ("RBA") revenue recognition to a recognition method based on when rates are adjusted and revenues are collected, effective January 1, 2014. Accordingly, in May 2014, the Company made an adjustment of <\$330,311> to the RBA balance for the interest on a net-of-income tax RBA balance for the period January 1 - April 30, 2014. Starting with May 2014, Schedule B has been updated to calculate interest based on a net-of-income tax RBA balance. The amount of the interest adjustment was also filed with the Public Utilities Commission on May 18, 2014 as part of "Docket No. 2013-0141 - Decoupling Investigation - Hawaiian Electric Companies' Report on the Progress of Investigating the Tax Treatment of the Decoupling Revenue Included in the RBA Balance".

HECO-WP-B-005
HAWAIIAN ELECTRIC COMPANY, INC.
MAY 2014 ADJUSTMENT - RBA INTEREST ADJUSTMENT

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

Line No	Month (a)	Beginning Balance (b)	Target Revenues (c)	Recorded Adjusted Revenue (d)	Variance to RBA (e)	Interest at 6% or 1.75%/year (f)	Adjustment for Prior year RBA accrual (g)	Adjustment (h)	Ending Balance (i)
Monthly RBA Balance and Activity (Monthly PUC Rpt., Pg 9A)									
1	December	\$ 66,080,670	\$ 45,001,122	\$ 41,178,802	\$ 3,822,320	\$ 330,072	\$ (4,255,258)	\$ 150,274	\$ 66,128,079
2	January 2014 Adjustment								\$ 56,927
3	REVISED 2013 December								\$ 66,185,006
4									
5	2014 January	\$ 66,128,079	\$ 44,129,429	\$ 40,155,441	\$ 3,973,988	\$ 331,046	\$ (3,925,516)	\$ 56,927	\$ 66,564,524
6	February	\$ 66,564,524	\$ 39,553,044	\$ 37,871,094	\$ 1,681,950	\$ 327,624	\$ (3,781,214)	\$ -	\$ 64,812,884
7	March	\$ 64,812,884	\$ 44,129,429	\$ 40,445,741	\$ 3,683,688	\$ 94,378	\$ (3,910,640)	\$ 17,678	\$ 64,697,989
8	April	\$ 64,697,989	\$ 42,712,929	\$ 39,888,701	\$ 2,824,228	\$ 93,590	\$ (3,873,501)	\$ 2,887	\$ 63,745,193
9	May	\$ -	\$ 45,981,776	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10	June	\$ -	\$ 48,725,408	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11	July	\$ -	\$ 50,451,219	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12	August	\$ -	\$ 53,004,449	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13	September	\$ -	\$ 49,933,476	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14	October	\$ -	\$ 50,508,746	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15	November	\$ -	\$ 47,517,340	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	December	\$ -	\$ 47,517,340	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
01/14-04/14 RBA Interest Recorded						\$ 846,640	HECO-WP-B-005 (Page 1 of 2)		

HECO-WP-B-006
HAWAIIAN ELECTRIC COMPANY, INC.
MAY 2014 ADJUSTMENT - MISCELLANEOUS CUSTOMER BILLING ADJUSTMENTS

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED

		Apr-14
L1		Monthly Target Revenue
L2		Recorded Adjusted Revenue
L3	L1 - L2	Target vs. Actual Revenue
L4		Reversal of Previous Year Accrual
L5	L4 + L3	Net RBA Change
L6		Beginning RBA Balance
L7	L6 + L5	End Balance Before Interest
L8	(L6 + L7) + 2 or (L6 + L7) + 2 + [1]	Balance Subject to Interest
L9	L8 x (6% or 1.75%) + 12	Interest
L10	L7 + L9	Ending RBA Balance

Target vs Actual Difference:		
Recorded Adjusted Revenues - Unadjusted	39,888,701	<u>Total Billing Adjustment</u>
Billing Adjustments	(245,812)	(245,812)
Revised Revenues	39,642,889	
Target	42,712,929	
	3,070,040	

AS REVISED

		Apr-14
L1		Monthly Target Revenue
L2		Recorded Adjusted Revenue
L3	L1 - L2	Target vs. Actual Revenue
L4		Reversal of Previous Year Accrual
L5	L4 + L3	Net RBA Change
L6		Beginning RBA Balance
L7	L6 + L5	End Balance Before Interest
L8	(L6 + L7) + 2 or (L6 + L7) + 2 + [1]	Balance Subject to Interest
L9	L8 x (6% or 1.75%) + 12	Interest
L10	L7 + L9	Ending RBA Balance

Revised Adjustment to Revenue	3,070,040	
RBA Adjustment Recorded to Revenue	2,824,228	<u>Total RBA Adjustment</u>
Adjustment to Revenue	245,812	245,812
Revised Interest	93,770	
Interest Recorded	93,590	<u>Total Interest Adjustment</u>
Adjustment to Interest	180	180

Note (1):
Totals may not add exactly due to rounding.

Note (2):
A Schedule P customer was overbilled for April 2014 due to an incorrect demand reading inputted by a billing representative. In May, the error was caught and a correcting adjustment was made in the billing system. An adjustment to the RBA was also made in May. The Company compared the amount of the original bill to the corrected bill, and recalculated the RBA, including interest, based on the billing adjustments in the prior month incurred.

HAWAIIAN ELECTRIC COMPANY, INC.
AUG TO DEC 2014 ADJUSTMENTS - CUSTOMER BILLING ADJUSTMENTS DUE TO J TO G RATE CHANGE

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED

Table with columns: Month (Mar-13 to Feb-14) and rows: Monthly Target Revenue, Recorded Adjusted Revenue, Target vs Actual Revenue, Reversal of Previous Year Actual, Net RBA Change, Beginning RBA Balance, End Balance Before Interest, Balance Subject to Interest, Interest, Ending RBA Balance.

Target vs Actual Difference

Table with columns: Month (Mar-13 to Feb-14) and rows: Recorded Adjusted Revenue - Unadjusted, Billing Adjustments.

Billing Adjustments

Table with columns: Month (Mar-13 to Feb-14) and rows: Customer 1 through Customer 67, Revised Revenue, Target.

AS REVISED

Table with columns: Month (Mar-13 to Feb-14) and rows: Monthly Target Revenue, Recorded Adjusted Revenue, Target vs Actual Revenue, Reversal of Previous Year Actual, Net RBA Change, Beginning RBA Balance, End Balance Before Interest, Balance Subject to Interest, Interest, Ending RBA Balance.

Revised Revenue

Table with columns: Month (Mar-13 to Feb-14) and rows: Revised Revenue, Target.

RBA Adjustment to Revenue

Table with columns: Month (Mar-13 to Feb-14) and rows: RBA Adjustment to Revenue.

Adjusted to Revenue

Table with columns: Month (Mar-13 to Feb-14) and rows: Adjusted to Revenue.

Revised Interest

Table with columns: Month (Mar-13 to Feb-14) and rows: Revised Interest.

Adjustment to Interest

Table with columns: Month (Mar-13 to Feb-14) and rows: Adjustment to Interest.

HECO-WP-B-008
HAWAIIAN ELECTRIC COMPANY, INC.
JAN 2015 ADJUSTMENT - CUSTOMER BILLING ADJUSTMENTS DUE TO J TO G RATE CHANGE

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED

	Sept-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	June-12	July-12	Aug-12
Monthly Target Revenue	44,070,248	44,577,970	41,937,817	41,937,817	41,125,462	38,980,589	41,125,462	40,152,722	43,255,064	43,980,356	45,538,102	46,940,073
Recorded Adjusted Revenue	38,385,130	38,799,920	38,574,222	38,981,425	38,527,569	37,356,068	38,821,842	38,304,038	41,640,204	37,944,203	40,909,648	41,328,298
Target vs. Actual Revenue	5,685,118	5,778,050	5,363,595	1,976,392	1,597,893	(485,469)	2,503,620	1,768,684	1,614,860	6,036,153	4,628,456	5,611,775
Reversal of Previous Year Accrual										(1,546,140)	(1,811,187)	(1,879,771)
Net RBA Change	5,685,118	5,778,050	5,363,595	1,976,392	1,597,893	(485,469)	2,503,620	1,768,684	1,614,860	4,490,013	3,017,269	3,832,004
Beginning RBA Balance	12,445,972	18,207,533	24,035,403	18,705,434	20,790,294	22,486,053	21,734,834	24,353,387	26,243,191	27,993,304	32,634,509	35,822,492
End Balance Before Interest	18,131,090	23,985,582	29,398,998	20,682,026	22,378,157	21,990,584	24,238,454	26,122,071	27,858,051	32,483,317	35,851,778	39,754,497
Balance Subject to Interest	15,288,625	21,096,538	26,717,201	19,693,630	21,579,226	22,238,319	22,898,644	25,237,071	27,050,621	30,240,136	34,143,143	37,788,495
Interest	78,443	105,484	133,500	98,468	107,890	111,192	114,939	128,186	135,253	151,192	170,716	188,942
Ending RBA Balance	18,207,533	24,091,066	29,532,504	20,790,294	22,486,053	22,101,776	24,353,387	26,248,260	27,993,304	32,634,509	35,822,493	39,943,440
Target vs Actual Difference:												
Recorded Adjusted Revenues - Unadjusted	38,385,130	38,799,920	38,574,222	38,981,425	38,527,569	37,356,068	38,821,842	38,304,038	41,640,204	37,944,203	40,909,648	41,328,298
Billing Adjustments	(182)	(188)	(178)	(184)	(181)	(185)	(186)	(187)	(186)	(188)	(188)	(181)
Revised Revenues	38,384,938	38,799,731	38,574,044	38,981,232	38,527,418	37,355,883	38,821,646	38,303,841	41,640,018	37,944,015	40,909,460	41,328,114
Target	44,070,248	44,577,970	41,937,817	41,937,817	41,125,462	38,980,589	41,125,462	40,152,722	43,255,064	43,980,356	45,538,102	46,940,073
	5,685,310	5,778,239	5,363,773	1,976,585	1,598,044	(485,284)	2,503,816	1,768,881	1,615,046	6,036,341	4,628,617	5,611,929

AS REVISED

	Sept-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	June-12	July-12	Aug-12
Monthly Target Revenue	44,070,248	44,577,970	41,937,817	41,937,817	41,125,462	38,980,589	41,125,462	40,152,722	43,255,064	43,980,356	45,538,102	46,940,073
Recorded Adjusted Revenue	38,384,938	38,799,731	38,574,044	38,981,232	38,527,418	37,355,883	38,821,646	38,303,841	41,640,018	37,944,015	40,909,460	41,328,144
Target vs. Actual Revenue	5,685,310	5,778,239	5,363,773	1,976,585	1,598,044	(485,284)	2,503,816	1,768,881	1,615,046	6,036,341	4,628,617	5,611,929
Reversal of Previous Year Accrual										(1,546,140)	(1,811,187)	(1,879,771)
Net RBA Change	5,685,310	5,778,239	5,363,773	1,976,585	1,598,044	(485,284)	2,503,816	1,768,881	1,615,046	4,490,201	3,017,430	3,832,158
Beginning RBA Balance	12,445,970	18,207,723	24,035,783	18,705,994	20,791,050	22,486,994	21,735,965	24,354,720	26,244,728	27,995,035	32,636,437	35,824,558
End Balance Before Interest	18,131,280	23,985,982	29,399,556	20,682,579	22,379,094	21,991,710	24,239,781	26,123,601	27,859,774	32,485,236	35,853,887	39,756,751
Balance Subject to Interest	15,288,625	21,096,842	26,717,670	19,694,287	21,580,072	22,239,352	22,987,873	25,239,160	27,052,251	30,240,136	34,143,152	37,790,872
Interest	78,443	105,484	133,500	98,471	107,900	111,192	114,939	128,186	135,281	151,201	170,728	188,953
Ending RBA Balance	18,207,723	24,091,446	29,533,144	20,781,050	22,486,994	22,102,907	24,354,720	26,249,797	27,995,035	32,638,437	35,824,583	39,945,704
Revised Adjustment to Revenue	5,685,310	5,778,239	5,363,773	1,976,585	1,598,044	(485,284)	2,503,816	1,768,881	1,615,046	6,036,341	4,628,617	5,611,929
RBA Adjustment Recorded to Revenue	5,685,118	5,778,050	5,363,595	1,976,392	1,597,893	(485,469)	2,503,620	1,768,684	1,614,860	6,036,153	4,628,456	5,611,775
Adjustment to Revenue	192	188	178	194	181	185	186	187	186	188	181	154
Revised Interest	78,443	105,484	133,588	98,471	107,900	111,197	114,939	128,186	135,281	151,201	170,728	188,953
Interest Recorded	78,443	105,483	133,586	98,468	107,896	111,192	114,933	128,189	135,253	151,192	170,716	188,942
Adjustment to Interest												
		1	2	3	4	5	6	7	8	9	10	11

Note (1):
Totals may not add exactly due to rounding.

Note (2):
The Company recorded adjustments to the RBA related to customer billing adjustments due to the J to G rate change that was processed in January 2015. Based on a review performed by Billing, it was determined that this Schedule J customer was billed under an incorrect rate schedule based on recent kWh usage. This J to G schedule change was not identified because the appropriate review was not performed on a timely basis. The Company recalculated the RBA based on the billing adjustment in the prior months incurred. Because this billing adjustment is related to the same "event" as the billing adjustments made from August through December 2014 due to untimely performance of a review control and in aggregate exceed an RBA impact of \$50,000, in accordance with the Review Balancing Account provision tariff, the interest impact was calculated. Effective February 2015, management has resumed its monthly control for J to G schedule rate changes.

HECO-WP-B-008
HAWAIIAN ELECTRIC COMPANY, INC.
JAN 2015 ADJUSTMENT - CUSTOMER BILLING ADJUSTMENTS DUE TO J TO G RATE CHANGE

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED	Sept-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13
L1 Monthly Target Revenue	45,011,148	45,529,707	42,833,187	42,830,375	42,000,731	37,645,099	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,622
L2 Recorded Adjusted Revenue	39,445,423	41,324,162	38,638,624	40,479,114	38,528,431	35,028,258	39,226,528	36,772,031	40,347,419	40,290,987	42,838,763	43,860,012
L3 Target vs. Actual Revenue	5,565,723	4,205,545	4,194,563	2,351,261	3,472,300	2,616,841	2,774,203	1,880,528	3,416,305	5,854,231	4,940,879	5,390,610
L4 Reversal of Previous Year Accrual	(1,569,477)	(1,859,897)	(1,540,056)	(1,591,381)	(1,489,941)	(1,322,999)	(1,486,048)	(1,493,978)	(1,588,384)	(4,107,427)	(4,426,857)	(4,465,163)
L5 Net RBA Change	3,996,246	2,545,648	2,654,507	759,880	1,972,359	1,293,842	1,288,155	385,550	1,827,921	1,746,804	514,022	1,105,447
L6 Beginning RBA Balance	39,620,231	43,824,568	46,595,703	49,478,878	50,488,050	52,735,438	54,300,097	56,053,624	56,721,206	58,835,649	60,913,594	61,546,805
L7 End Balance Before Interest	43,616,477	48,370,216	49,250,210	50,230,756	52,480,408	54,020,280	55,588,252	56,439,974	58,549,129	60,580,453	61,427,616	62,652,528
L8 (L6 + L7) + 2 or (L6 + L7) - 2 + [1]	41,818,354	46,097,392	47,922,947	49,858,818	51,474,232	53,382,358	54,944,175	56,248,699	57,635,169	59,708,651	61,170,605	62,099,528
L9 L8 x (6% or 1.75%) - 12	208,092	225,487	238,615	249,284	267,371	286,912	274,721	281,233	288,178	298,545	305,853	310,498
L10 L7 + L9	43,824,568	48,595,703	49,489,825	50,488,050	52,717,779	54,298,192	55,862,973	56,721,208	58,833,305	60,880,999	61,738,470	62,962,750

AS REVISED	Sept-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13
Target vs Actual Difference:	39,445,423	41,324,162	38,638,624	40,479,114	38,528,431	35,028,258	39,226,528	36,772,031	40,347,419	40,290,987	42,838,763	43,860,012
Recorded Adjusted Revenues - Unadjusted	(157)	(155)	(176)	(173)	(170)	(187)	(182)	(178)	(207)	(234)	(256)	(255)
Billing Adjustments	39,445,266	41,324,007	38,638,448	40,478,941	38,528,261	35,028,071	39,226,346	36,771,853	40,347,212	40,290,753	42,838,507	43,879,757
Revised Revenues	45,011,148	45,529,707	42,833,187	42,830,375	42,000,731	37,645,099	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,622
Target	5,565,860	4,205,700	4,194,739	2,351,434	3,472,470	2,617,028	2,774,395	1,880,706	3,416,512	5,854,465	4,941,135	5,370,865

AS REVISED	Sept-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13
L1 Monthly Target Revenue	45,011,148	45,529,707	42,833,187	42,830,375	42,000,731	37,645,099	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,622
L2 Recorded Adjusted Revenue	39,445,266	41,324,007	38,638,448	40,478,941	38,528,261	35,028,071	39,226,346	36,771,853	40,347,212	40,290,753	42,838,507	43,879,757
L3 Target vs. Actual Revenue	5,565,880	4,205,700	4,194,739	2,351,434	3,472,470	2,617,028	2,774,395	1,880,706	3,416,512	5,854,465	4,941,135	5,370,865
L4 Reversal of Previous Year Accrual	(1,569,477)	(1,859,897)	(1,540,056)	(1,591,381)	(1,489,941)	(1,322,999)	(1,486,048)	(1,493,978)	(1,588,384)	(4,107,427)	(4,426,857)	(4,465,163)
L5 Net RBA Change	3,996,403	2,545,803	2,654,683	760,053	1,972,529	1,294,029	1,288,347	386,728	1,828,128	1,747,058	514,278	1,105,702
L6 Beginning RBA Balance	39,622,495	43,827,001	46,598,303	49,481,965	50,491,028	52,738,800	54,303,462	56,056,998	56,724,878	58,839,644	60,917,864	61,551,353
L7 End Balance Before Interest	43,818,998	48,372,804	49,252,968	50,241,718	52,483,555	54,032,629	55,591,909	56,443,726	58,553,106	60,586,702	61,432,142	62,657,055
L8 (L6 + L7) + 2 or (L6 + L7) - 2 + [1]	41,820,697	46,099,803	47,925,645	49,861,992	51,477,290	53,385,614	54,947,035	56,250,382	57,639,042	59,713,173	61,175,003	62,104,204
L9 L8 x (6% or 1.75%) - 12	208,103	225,499	239,828	249,308	267,386	286,928	274,739	281,251	288,184	298,568	305,875	310,521
L10 L7 + L9	43,827,001	48,598,303	49,482,814	50,491,028	52,720,941	54,296,557	55,866,547	56,724,978	58,841,300	60,885,269	61,738,018	62,967,578

AS REVISED	Sept-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13
Revised Adjustment to Revenue	5,565,880	4,205,700	4,194,739	2,351,434	3,472,470	2,617,028	2,774,395	1,880,706	3,416,512	5,854,465	4,941,135	5,370,865
RBA Adjustment Recorded to Revenue	5,565,723	4,205,545	4,194,563	2,351,261	3,472,300	2,616,841	2,774,203	1,880,528	3,416,305	5,854,231	4,940,879	5,370,610
Adjustment to Revenue	157	155	176	173	170	187	182	178	207	234	256	255

AS REVISED	Sept-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13
Revised Interest	208,103	225,499	239,828	249,308	267,386	286,928	274,738	281,251	288,184	298,568	305,875	310,521
Interest Recorded	208,092	225,487	239,815	249,294	267,371	286,912	274,721	281,233	288,176	298,545	305,853	310,496
Adjustment to Interest	11	12	13	14	15	16	17	18	18	21	22	23

HECO-WP-B-008
HAWAIIAN ELECTRIC COMPANY, INC.
JAN 2015 ADJUSTMENT - CUSTOMER BILLING ADJUSTMENTS DUE TO J TO G RATE CHANGE

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14
L1 Monthly Target Revenue	47,269,315	47,834,122	45,001,122	45,001,122	44,128,429	39,553,044	44,128,429	42,712,929	45,981,776	48,725,408	50,451,219	52,004,449
L2 Recorded Adjusted Revenue	41,909,185	42,572,482	40,870,890	41,178,802	40,155,441	37,871,094	40,445,741	39,888,701	41,328,526	43,277,375	45,900,584	46,563,655
L3 Target vs. Actual Revenue	5,360,150	5,261,640	4,130,232	3,822,320	3,973,000	1,681,950	3,683,688	2,824,228	4,653,250	5,448,033	4,550,635	5,440,794
L4 Reversal of Previous Year Accrual	(4,277,405)	(4,415,078)	(4,102,803)	(3,925,516)	(3,761,214)	(3,910,940)	(3,873,501)	(3,873,501)	(4,160,513)	(5,518,592)	(5,956,735)	(6,117,873)
L5 Net RBA Change	1,082,745	846,562	21,629	(432,693)	48,472	(2,078,264)	(228,952)	(1,049,273)	494,737	(70,559)	(1,406,100)	(6,877,079)
L6 Beginning RBA Balance	63,136,164	64,552,840	65,724,351	66,230,945	66,185,006	66,564,524	64,830,492	64,709,876	63,860,874	64,212,547	64,199,183	62,860,842
L7 End Balance Before Interest	64,253,906	65,398,392	65,753,980	65,788,907	66,293,478	64,485,260	64,603,010	63,658,186	64,162,204	64,148,588	62,799,867	62,180,373
L8 (L6 + L7) - 2 or (L6 + L7) - 2 + [1]	63,877,537	64,878,118	65,739,185	66,014,476	66,208,242	65,524,892	64,717,816	64,178,239	64,155,611	64,141,988	62,793,083	62,184,783
L9 L8 + (6% or 1.75%) - 12	318,368	324,881	326,881	330,072	331,046	327,824	34,378	93,580	56,936	57,175	56,566	55,701
L10 L7 + L9	64,547,297	65,724,273	66,060,871	66,128,072	66,564,524	64,812,864	64,897,389	63,745,193	64,212,547	64,199,183	62,849,651	62,239,464

Target vs Actual Difference:

Recorded Adjusted Revenues - Unadjusted	41,909,185	42,572,482	40,870,890	41,178,802	40,155,441	37,871,094	40,445,741	39,888,701	41,328,526	43,277,375	45,900,584	46,563,655
Billing Adjustments	(255)	(256)	(264)	(273)	(268)	(170)	(96)	(96)	(96)	(96)	(96)	(96)
Revised Revenues	41,908,910	42,572,236	40,870,626	41,178,529	40,155,173	37,870,924	40,445,645	39,888,701	41,328,526	43,277,375	45,900,584	46,563,655
Target	47,269,315	47,834,122	45,001,122	45,001,122	44,128,429	39,553,044	44,128,429	42,712,929	45,981,776	48,725,408	50,451,219	52,004,449
	5,360,405	5,261,886	4,130,696	3,822,593	3,974,256	1,682,120	3,683,784	2,824,228	4,653,250	5,448,033	4,550,635	5,440,794

AS REVISED

AS REVISED	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14
L1 Monthly Target Revenue	47,269,315	47,834,122	45,001,122	45,001,122	44,128,429	39,553,044	44,128,429	42,712,929	45,981,776	48,725,408	50,451,219	52,004,449
L2 Recorded Adjusted Revenue	41,908,910	42,572,236	40,870,426	41,178,529	40,155,173	37,870,924	40,445,645	39,888,701	41,328,526	43,277,375	45,900,584	46,563,655
L3 Target vs. Actual Revenue	5,360,405	5,261,886	4,130,696	3,822,593	3,974,256	1,682,120	3,683,784	2,824,228	4,653,250	5,448,033	4,550,635	5,440,794
L4 Reversal of Previous Year Accrual	(4,277,405)	(4,415,078)	(4,102,803)	(3,925,516)	(3,761,214)	(3,910,940)	(3,873,501)	(3,873,501)	(4,160,513)	(5,518,592)	(5,956,735)	(6,117,873)
L5 Net RBA Change	1,103,000	846,808	27,893	(432,665)	48,740	(2,078,094)	(228,856)	(1,049,273)	494,737	(70,559)	(1,406,100)	(6,877,079)
L6 Beginning RBA Balance	63,130,990	64,557,945	65,729,737	66,236,821	66,180,983	66,570,799	64,830,492	64,707,459	63,867,467	64,219,145	64,205,767	62,867,452
L7 End Balance Before Interest	64,233,990	65,404,753	65,757,830	65,803,956	66,298,723	64,481,705	64,610,183	63,658,186	64,162,204	64,148,588	62,799,867	62,180,373
L8 (L6 + L7) - 2 or (L6 + L7) - 2 + [1]	63,862,490	64,981,349	65,743,883	66,020,288	66,215,353	65,531,252	64,723,811	64,182,823	64,155,573	64,141,988	62,793,083	62,184,783
L9 L8 + (6% or 1.75%) - 12	318,412	324,906	326,917	330,100	331,076	327,856	34,389	93,600	56,941	57,181	56,574	55,707
L10 L7 + L9	64,552,402	65,729,659	66,066,347	66,134,058	66,570,789	64,818,361	64,704,572	63,751,786	64,219,145	64,205,767	62,856,241	62,248,060

Revised Adjustment to Revenue

RBA Adjustment Recorded to Revenue	5,360,405	5,261,886	4,130,696	3,822,593	3,974,256	1,682,120	3,683,784	2,824,228	4,653,250	5,448,033	4,550,635	5,440,794
Adjustment to Revenue	255	256	264	273	268	170	96	96	96	96	96	96
	5,360,150	5,261,630	4,130,432	3,822,320	3,973,988	1,681,950	3,683,688	2,824,228	4,653,250	5,448,033	4,550,635	5,440,794

Revised Interest

Interest Recorded	318,412	324,906	328,717	330,100	331,076	327,656	34,389	93,600	56,941	57,181	56,574	55,707
Adjustment to Interest	24	25	26	28	30	32	10	10	10	10	10	10
	318,368	324,881	328,691	330,072	331,046	327,624	34,379	93,590	56,936	57,175	56,568	55,701

HECO-WP-B-008
HAWAIIAN ELECTRIC COMPANY, INC.
JAN 2015 ADJUSTMENT - CUSTOMER BILLING ADJUSTMENTS DUE TO J TO G RATE CHANGE

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED

	Sep-14	Oct-14	Nov-14	Dec-14
L1 Monthly Target Revenue	49,933,476	50,508,746	47,517,340	47,517,340
L2 Recorded Adjusted Revenue	45,456,699	46,193,856	43,033,461	42,908,961
L3 Target vs. Actual Revenue	4,476,777	4,314,890	4,483,879	4,708,379
L4 Reversal of Previous Year Accrual	(6,024,188)	(6,133,236)	(5,514,770)	(5,430,235)
L5 Net RBA Change	(1,547,411)	(1,818,346)	(1,930,891)	(721,856)
L6 Beginning RBA Balance	62,267,427	60,848,238	59,205,901	58,495,031
L7 End Balance Before Interest	60,720,016	59,029,912	58,174,910	57,733,175
L8 (L6 - L7) * 2 or (L6 + L7) * 2 + [1]	37,568,514	36,816,767	35,853,938	35,489,887
L9 L8 x (6% or 1.75%) + 12	54,785	53,399	52,287	51,756
L10 L7 + L9	60,774,801	59,083,311	58,227,197	57,784,931

Target vs Actual Difference:

Recorded Adjusted Revenues - Unadjusted	45,456,699	46,193,856	43,033,461	42,908,961
Billing Adjustments	45,456,699	46,193,856	43,033,461	42,908,961
Revised Revenues	49,933,476	50,508,746	47,517,340	47,517,340
Target	4,476,777	4,314,890	4,483,879	4,708,379
Total Billing Adjustment				(6,141)

AS REVISED

	Sep-14	Oct-14	Nov-14	Dec-14
L1 Monthly Target Revenue	49,933,476	50,508,746	47,517,340	47,517,340
L2 Recorded Adjusted Revenue	45,456,699	46,193,856	43,033,461	42,908,961
L3 Target vs. Actual Revenue	4,476,777	4,314,890	4,483,879	4,708,379
L4 Reversal of Previous Year Accrual	(6,024,188)	(6,133,236)	(5,514,770)	(5,430,235)
L5 Net RBA Change	(1,547,411)	(1,818,346)	(1,930,891)	(721,856)
L6 Beginning RBA Balance	62,267,427	60,848,238	59,205,901	58,495,031
L7 End Balance Before Interest	60,720,016	59,029,912	58,174,910	57,733,175
L8 (L6 - L7) * 2 or (L6 + L7) * 2 + [1]	37,568,514	36,816,767	35,853,938	35,489,887
L9 L8 x (6% or 1.75%) + 12	54,785	53,399	52,287	51,756
L10 L7 + L9	60,774,801	59,083,311	58,227,197	57,791,570

Revised Adjustment to Revenue

RBA Adjustment Recorded to Revenue	4,476,777	4,314,890	4,483,879	4,708,379
Adjustment to Revenue	4,476,777	4,314,890	4,483,879	4,708,379
Total RBA Adjustment				6,141

Revised Interest

Interest Recorded	54,790	53,405	52,293	51,762
Adjustment to Interest	54,785	53,389	52,287	51,756
Total Interest Adjustment	5	6	6	487

HECO-WP-B-009
HAWAIIAN ELECTRIC COMPANY, INC.
FEB 2015 ADJUSTMENT - CUSTOMER BILLING ADJUSTMENTS DUE TO J TO G RATE CHANGE

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	June-12	July-12	Aug-12	Sept-12	Oct-12	Nov-12
L1 Monthly Target Revenue	41,937,817	41,125,462	36,860,599	41,125,462	40,152,722	43,255,064	43,980,356	45,538,102	46,940,073	45,011,146	45,529,707	42,833,187
L2 Recorded Adjusted Revenue	39,961,425	39,527,599	37,355,923	38,621,842	38,394,038	41,640,204	37,944,203	40,909,646	41,328,298	39,445,423	41,324,162	38,638,624
L3 Target vs. Actual Revenue	1,976,392	1,597,863	(485,469)	2,503,620	1,768,684	1,614,860	6,036,153	4,628,456	5,611,775	5,565,723	4,205,545	4,194,563
L4 Reversal of Previous Year Accrual							(1,546,140)	(1,611,187)	(1,673,771)	(1,589,477)	(1,659,897)	(1,540,056)
L5 Net RBA Change	1,976,392	1,597,863	(485,469)	2,503,620	1,768,684	1,614,860	4,490,013	3,017,269	3,932,004	3,986,246	2,545,648	2,654,507
L6 Beginning RBA Balance	18,705,434	20,780,294	22,486,053	21,734,834	24,353,387	26,243,191	27,993,304	32,624,599	35,622,493	39,620,231	43,824,568	46,590,703
L7 End Balance Before Interest	20,681,826	22,378,157	21,990,584	24,238,454	26,122,071	27,858,051	32,483,311	35,651,778	39,754,497	43,816,477	46,370,216	49,250,210
L8 Balance Subject to Interest	19,693,630	21,579,226	22,238,319	22,986,644	25,237,729	27,050,621	30,238,311	34,143,143	37,789,495	41,618,354	45,097,392	47,922,957
L9 Interest	98,468	107,896	111,192	114,933	126,189	135,253	151,192	170,716	189,942	208,092	225,487	239,615
L10 Ending RBA Balance	20,780,294	22,486,053	22,101,776	24,353,387	26,248,260	27,993,304	32,634,509	35,822,493	39,943,440	43,824,568	46,595,703	49,489,825

Target vs Actual Difference:
Recorded Adjusted Revenues - Unadjusted Billing Adjustments: Customer 1
Billing Adjustments: Customer 2

Target	39,961,425	39,527,599	37,355,923	38,621,842	38,394,038	41,640,204	37,944,203	40,909,646	41,328,298	39,445,423	41,324,162	38,638,624
Revised Revenues	39,961,425	39,527,599	37,355,923	38,621,842	38,394,038	41,640,204	37,944,203	40,909,646	41,328,298	39,445,423	41,324,162	38,638,624
Target	1,976,392	1,597,863	(485,469)	2,503,620	1,768,684	1,614,860	6,036,153	4,628,456	5,611,775	5,565,723	4,205,545	4,194,563

AS REVISED

AS REVISED	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	June-12	July-12	Aug-12	Sept-12	Oct-12	Nov-12
L1 Monthly Target Revenue	41,937,817	41,125,462	36,860,599	41,125,462	40,152,722	43,255,064	43,980,356	45,538,102	46,940,073	45,011,146	45,529,707	42,833,187
L2 Recorded Adjusted Revenue	39,961,425	39,527,599	37,355,923	38,621,842	38,394,038	41,640,204	37,944,203	40,909,646	41,328,298	39,445,423	41,324,162	38,638,624
L3 Target vs. Actual Revenue	1,976,392	1,597,863	(485,469)	2,503,620	1,768,684	1,614,860	6,036,153	4,628,456	5,611,775	5,565,723	4,205,545	4,194,563
L4 Reversal of Previous Year Accrual							(1,546,140)	(1,611,187)	(1,673,771)	(1,589,477)	(1,659,897)	(1,540,056)
L5 Net RBA Change	1,976,392	1,597,863	(485,469)	2,503,620	1,768,684	1,614,860	4,490,013	3,017,269	3,932,004	3,986,246	2,545,648	2,654,507
L6 Beginning RBA Balance	18,705,434	20,780,441	22,486,360	21,735,287	24,353,988	26,243,929	27,994,194	32,635,521	35,823,642	39,621,498	43,825,959	46,597,221
L7 End Balance Before Interest	20,681,972	22,378,463	21,991,036	24,239,052	26,122,806	27,859,937	32,484,325	35,652,921	39,755,758	43,817,867	46,371,734	49,252,113
L8 Balance Subject to Interest	19,693,703	21,579,452	22,238,698	22,987,169	25,238,397	27,051,433	30,239,259	34,144,221	37,789,700	41,618,682	45,098,847	47,924,867
L9 Interest	98,469	107,897	111,193	114,936	126,192	135,257	151,196	170,721	189,949	208,092	225,487	239,615
L10 Ending RBA Balance	20,780,441	22,486,360	22,102,229	24,353,988	26,248,998	27,994,194	32,635,521	35,823,642	39,944,707	43,825,959	46,597,221	49,491,728

Revised Adjustment to Revenue
RBA Adjustment Recorded to Revenue
Adjustment to Revenue

Revised Adjustment to Revenue	1,976,538	1,598,022	(485,324)	2,503,765	1,768,618	1,615,008	6,036,271	4,628,597	5,611,887	5,565,847	4,205,672	4,194,948
RBA Adjustment Recorded to Revenue	1,976,392	1,597,863	(485,469)	2,503,620	1,768,684	1,614,860	6,036,153	4,628,456	5,611,775	5,565,723	4,205,545	4,194,563
Adjustment to Revenue	147	159	145	145	134	148	118	131	112	124	127	385

Note (1):
Totals may not add exactly due to rounding.

Note (2):

The Company recorded adjustments to the RBA related to customer billing adjustments due to the J to G rate change that were processed in February 2015. During the regular review control performed by Billing, it was determined that these Schedule J customers were billed under an incorrect rate schedule based on recent kWh usage. The Company recalculated the RBA based on the billing adjustments in the prior months incurred. No interest impact was calculated as the adjustments did not meet the interest recalculation threshold of \$50,000 per the Revenue Balancing Account provision tariff.

HECO-WP-B-009
HAWAIIAN ELECTRIC COMPANY, INC.
FEB 2015 ADJUSTMENT - CUSTOMER BILLING ADJUSTMENTS DUE TO J TO G RATE CHANGE

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13
L1	42,830,375	42,000,731	37,645,099	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,622	47,289,315	47,834,122	45,001,122
L2	40,479,114	38,528,431	35,028,258	39,226,528	38,772,031	40,347,419	40,290,987	42,838,763	43,680,012	41,909,165	42,572,492	40,870,690
L3	2,351,261	3,472,300	2,617,841	2,774,203	1,880,528	3,416,305	5,854,231	4,940,879	5,570,610	5,380,150	5,261,630	4,130,432
L4	(1,591,381)	(1,499,941)	(1,322,999)	(1,486,048)	(1,493,978)	(1,580,384)	(1,407,427)	(4,426,857)	(4,485,163)	(4,277,405)	(4,415,078)	(4,102,803)
L5	759,660	1,972,359	1,283,642	1,288,155	386,550	1,827,921	1,746,804	514,022	1,105,447	1,102,745	846,552	27,829
L6	49,478,076	50,488,050	52,735,438	54,300,097	56,053,424	56,721,208	58,835,649	60,913,593	61,546,804	63,126,164	64,552,840	65,724,351
L7	50,238,756	52,460,408	54,028,280	55,588,252	56,439,974	58,549,129	60,582,453	61,427,615	62,652,152	64,228,909	65,399,392	65,751,980
L8	49,858,916	51,474,227	53,382,359	54,944,175	56,246,699	57,635,169	59,709,051	61,170,604	62,059,528	63,677,537	64,976,116	65,738,165
L9	249,294	257,371	266,912	274,721	281,233	288,176	298,545	305,853	310,498	318,388	324,881	328,691
L10	50,488,050	52,717,779	54,296,192	55,862,973	56,721,208	58,837,305	60,860,989	61,733,469	62,962,750	64,547,297	65,724,273	66,080,871

Target vs Actual Difference:
Recorded Adjusted Revenues - Unadjusted Billing Adjustments: Customer 1
Billing Adjustments: Customer 2
Revised Revenues
Target

40,479,114	38,528,431	35,028,258	39,226,528	38,772,031	40,347,419	40,290,987	42,838,763	43,680,012	41,909,165	42,572,492	40,870,690
(142)	(143)	(153)	(153)	(155)	(121)	(103)	(113)	(112)	(112)	(131)	(159)
(281)	(279)	(282)	(282)	(281)	(281)	(281)	(278)	(278)	(282)	(279)	(281)
40,478,691	38,528,008	35,027,823	39,226,090	38,771,555	40,347,017	40,290,603	42,838,371	43,679,618	41,908,755	42,572,084	40,870,250
42,830,375	42,000,731	37,645,099	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,622	47,289,315	47,834,122	45,001,122
2,351,664	3,472,722	2,617,276	2,774,641	1,880,964	3,416,707	5,854,615	4,941,271	5,571,004	5,380,560	5,262,038	4,130,872

AS REVISED

	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13
L1	42,830,375	42,000,731	37,645,099	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,622	47,289,315	47,834,122	45,001,122
L2	40,478,691	38,528,008	35,027,823	39,226,090	38,771,595	40,347,017	40,290,603	42,838,371	43,679,618	41,908,755	42,572,084	40,870,250
L3	2,351,664	3,472,722	2,617,276	2,774,641	1,880,964	3,416,707	5,854,615	4,941,270	5,571,004	5,380,560	5,262,038	4,130,872
L4	(1,591,381)	(1,499,941)	(1,322,999)	(1,486,048)	(1,493,978)	(1,580,384)	(1,407,427)	(4,426,857)	(4,485,163)	(4,277,405)	(4,415,078)	(4,102,803)
L5	760,303	1,972,781	1,284,277	1,288,593	386,986	1,828,323	1,747,188	514,113	1,105,841	1,103,155	846,960	28,069
L6	49,480,779	50,490,376	52,738,200	54,303,309	56,057,091	56,725,330	58,840,194	60,918,546	61,552,175	63,131,956	64,559,072	65,731,023
L7	50,241,082	52,463,157	54,032,477	55,591,902	56,444,077	58,553,653	60,587,382	61,432,960	62,658,016	64,235,111	65,406,032	65,759,092
L8	49,860,931	51,478,767	53,385,339	54,947,606	56,250,584	57,639,492	59,713,788	61,175,753	62,105,096	63,683,534	64,982,552	65,745,057
L9	249,294	257,394	266,927	274,738	281,252	288,197	298,569	305,879	310,525	318,418	324,913	328,725
L10	50,490,376	52,720,541	54,299,404	55,866,640	56,725,330	58,841,950	60,885,952	61,738,840	62,968,542	64,553,528	65,730,945	66,087,817

Revised Adjustment to Revenue
RBA Adjustment Recorded to Revenue
Adjustment to Revenue

2,351,664	3,472,722	2,617,276	2,774,641	1,880,964	3,416,707	5,854,615	4,941,271	5,571,004	5,380,560	5,262,038	4,130,872
2,351,261	3,472,300	2,616,841	2,774,203	1,880,528	3,416,305	5,854,231	4,940,879	5,570,610	5,380,150	5,261,630	4,130,432
423	422	435	438	436	402	384	382	394	410	408	440

HECO-WP-B-009
HAWAIIAN ELECTRIC COMPANY, INC.
FEB 2015 ADJUSTMENT - CUSTOMER BILLING ADJUSTMENTS DUE TO J TO G RATE CHANGE

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14
L1 Monthly Target Revenue	45,001,122	44,129,429	39,553,044	44,129,429	42,712,929	45,981,776	48,725,408	50,451,219	52,004,449	49,933,476	50,508,746	47,517,340
L2 Recorded Adjusted Revenue	41,178,802	40,155,441	37,871,094	40,445,741	39,888,701	41,326,526	43,277,375	45,900,584	46,563,655	45,456,699	46,193,856	43,033,461
L3 Target vs. Actual Revenue	3,822,320	3,973,988	1,681,950	3,683,688	2,824,228	4,655,250	5,448,033	4,550,635	5,440,794	4,476,777	4,315,890	4,483,879
L4 Reversal of Previous Year Accrual	(4,255,258)	(3,925,516)	(3,781,214)	(3,910,640)	(3,873,501)	(4,160,513)	(5,518,592)	(5,956,735)	(6,024,188)	(6,024,188)	(6,133,236)	(5,514,770)
L5 Net RBA Change	(432,938)	48,472	(2,079,264)	(228,952)	(1,048,273)	494,737	(70,558)	(1,406,100)	(677,079)	(1,547,411)	(1,818,346)	(1,030,891)
L6 Beginning RBA Balance	66,230,945	66,185,006	66,584,524	64,830,362	64,700,876	63,660,874	64,212,547	64,199,163	62,860,842	62,267,427	60,848,258	59,205,801
L7 End Balance Before Interest	65,796,007	66,233,478	64,485,260	64,603,610	63,651,603	64,155,611	64,141,988	62,793,063	62,183,763	60,720,016	59,029,912	58,174,910
L8 (L6 + L7) + 2 or (L6 + L7) + 2 + (1)	66,014,476	66,209,242	65,524,892	64,717,086	64,176,239	63,041,545	62,793,063	61,184,975	60,504,449	59,029,912	57,566,514	56,174,910
L9 L8 x (6% or 1.75%) + 12	330,072	331,046	327,624	327,624	327,624	327,624	327,624	327,624	327,624	327,624	327,624	327,624
L10 L7 + L9	66,126,079	66,564,524	64,812,884	64,944,710	64,503,833	64,479,169	64,520,612	62,521,687	62,832,387	62,395,041	61,196,138	58,502,534

AS REVISED	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14
Target vs Actual Difference:	41,178,802	40,155,441	37,871,094	40,445,741	39,888,701	41,326,526	43,277,375	45,900,584	46,563,655	45,456,699	46,193,856	43,033,461
Recorded Adjusted Revenues - Unadjusted	(163)	(160)	(169)	(167)	(166)	(154)	(144)	(130)	(148)	(140)	(132)	(157)
Billing Adjustments: Customer 1	(281)	(282)	(282)	(283)	(282)	(282)	(274)	(276)	(274)	(276)	(274)	(276)
Billing Adjustments: Customer 2	41,178,359	40,154,989	37,870,642	40,445,291	39,888,253	41,326,090	43,276,956	45,900,178	46,563,232	45,456,283	46,193,450	43,033,028
Revised Revenues	45,001,122	44,129,429	39,553,044	44,129,428	42,712,929	45,981,776	48,725,408	50,451,219	52,004,449	49,933,476	50,508,746	47,517,340
Target	3,822,763	3,974,430	1,682,402	3,684,138	2,824,676	4,655,686	5,448,452	4,551,041	5,441,217	4,477,183	4,315,298	4,484,312

AS REVISED	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14
L1 Monthly Target Revenue	45,001,122	44,129,429	39,553,044	44,129,429	42,712,929	45,981,776	48,725,408	50,451,219	52,004,449	49,933,476	50,508,746	47,517,340
L2 Recorded Adjusted Revenue	41,178,359	40,154,989	37,870,642	40,445,291	39,888,253	41,326,090	43,276,956	45,900,178	46,563,232	45,456,283	46,193,450	43,033,028
L3 Target vs. Actual Revenue	3,822,763	3,974,430	1,682,402	3,684,138	2,824,676	4,655,686	5,448,452	4,551,041	5,441,217	4,477,183	4,315,298	4,484,312
L4 Reversal of Previous Year Accrual	(4,255,258)	(3,925,516)	(3,781,214)	(3,910,640)	(3,873,501)	(4,160,513)	(5,518,592)	(5,956,735)	(6,024,188)	(6,024,188)	(6,133,236)	(5,514,770)
L5 Net RBA Change	(432,495)	48,914	(2,078,812)	(228,502)	(1,048,829)	495,173	(70,140)	(1,405,694)	(676,656)	(1,546,995)	(1,817,940)	(1,030,456)
L6 Beginning RBA Balance	66,238,091	66,192,632	66,572,819	64,839,163	64,709,940	63,670,400	64,222,517	64,199,163	62,871,656	62,278,673	60,859,930	59,217,891
L7 End Balance Before Interest	65,805,596	66,241,546	64,493,819	64,612,661	63,661,115	64,165,573	64,152,377	62,603,867	62,194,999	60,731,678	59,041,981	58,187,433
L8 (L6 + L7) + 2 or (L6 + L7) + 2 + (1)	66,021,844	66,217,089	65,533,225	64,725,912	64,185,527	63,047,498	62,712,111	61,184,975	60,504,449	59,029,912	57,566,514	56,174,910
L9 L8 x (6% or 1.75%) + 12	330,109	331,085	327,666	327,666	327,666	327,666	327,666	327,666	327,666	327,666	327,666	327,666
L10 L7 + L9	66,155,705	66,572,631	64,821,485	64,707,053	63,754,719	64,222,517	64,209,561	62,860,445	62,250,710	60,786,473	59,066,401	58,239,731

AS REVISED	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14
Revised Adjustment to Revenue	3,822,763	3,974,430	1,682,402	3,684,138	2,824,676	4,655,686	5,448,452	4,551,041	5,441,217	4,477,183	4,315,298	4,484,312
RBA Adjustment Recorded to Revenue	3,822,320	3,973,988	1,681,950	3,683,688	2,824,228	4,655,250	5,448,033	4,550,635	5,440,794	4,476,777	4,314,890	4,483,879
Adjustment to Revenue	443	442	452	450	448	436	419	408	423	416	408	433

HECO-WP-B-009
HAWAIIAN ELECTRIC COMPANY, INC.
FEB 2015 ADJUSTMENT - CUSTOMER BILLING ADJUSTMENTS DUE TO J TO G RATE CHANGE

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

AS PREVIOUSLY STATED

	Dec-14	Jan-15		Jan-15	Prior to Dec 2014
L1	47,517,340	46,596,907	Monthly Target Revenue		
L2	42,808,961	41,131,344	Recorded Adjusted Revenue		(5,213)
L3	4,708,379	5,465,563	Target vs. Actual Revenue	(156)	(7,266)
L4	(5,430,235)	(5,141,776)	Reversal of Previous Year Accrual	(273)	
L5	(721,856)	323,787	Net RBA Change	(429)	
L6	58,487,565	57,797,569	Beginning RBA Balance		
L7	57,733,175	58,115,356	End Balance Before Interest		
L8	35,489,687	35,403,770	Balance Subject to Interest		
L9	51,758	51,630	Interest		
L10	57,784,931	58,166,966	Ending RBA Balance		
			Target vs Actual Difference:		
	42,808,961	41,131,344	Recorded Adjusted Revenues - Unadjusted	(5,369)	
	(189)	(156)	Billing Adjustments: Customer 1	(7,539)	
	(276)	(273)	Billing Adjustments: Customer 2	(12,908)	
	42,808,516	41,130,915	Revised Revenues		
	47,517,340	46,596,907	Target		
	4,708,824	5,465,992			

AS REVISED

	Dec-14	Jan-15		Jan-15	Prior to Dec 2014
L1	47,517,340	46,596,907	Monthly Target Revenue		
L2	42,808,516	41,130,915	Recorded Adjusted Revenue		
L3	4,708,824	5,465,992	Target vs. Actual Revenue		
L4	(5,430,235)	(5,141,776)	Reversal of Previous Year Accrual		
L5	(721,411)	324,216	Net RBA Change		
L6	58,487,565	57,804,559	Beginning RBA Balance		
L7	57,746,154	58,128,775	End Balance Before Interest		
L8	35,497,480	35,411,837	Balance Subject to Interest		
L9	51,767	51,642	Interest		
L10	57,797,921	58,180,417	Ending RBA Balance		
	4,708,824	5,465,992	Revised Adjustment to Revenue		
	4,708,379	5,465,563	RBA Adjustment Recorded to Revenue	429	
	445	429	Adjustment to Revenue		
			Total RBA Adjustment	12,908	
				429	
					12,479

Hawaiian Electric Company, Inc.
Bargaining Unit Wage Increase per Collective Bargaining Agreements - Effective January 1, 2011 and July 1, 2013

Wage Increases: (non-compounded)		1/1/2011	1.75%	(Note 1)		
		1/1/2012	2.50%	(Note 1)		
		1/1/2013	3.00%	(Note 1)		
		1/1/2014	3.00%	(Note 2)		
		1/1/2015	3.00%	(Note 2)		
<u>Increase effective</u>		<u>Increase Amount</u>	<u>Wage Rate With Increase</u>	<u>Labor Cost Escalation Rate</u>		
		(a)	(b) or prev (b) + (a)	(c) (b) / prev (b) - 1		
1.00	1.75% 1/1/2011	0.0175	1.0175			
	2.50% 1/1/2012	0.0250	1.0425	0.0246	2.46%	
	3.00% 1/1/2013	0.0300	1.0725	0.0288	2.88%	
1.00	3.00% 1/1/2014	0.0300	1.0300			
	3.00% 1/1/2015	0.0300	1.0600	0.0291	2.91%	

(1) Agreement ratified by the IBEW, Local 1260 on March 11, 2011, reflects a 1.75% increase effective 1/1/2011, 2.50% increase effective 1/1/2012, and 3.00% increase effective 1/1/2013. See HECO's Form 8-K dated March 11, 2011 filed with Securities and Exchange Commission at www.hei.com, under SEC filings.

(2) Agreement ratified by the IBEW, Local 1260 on November 1, 2012, reflects a 3.00% increase effective 1/1/2014 and 1/1/2015, based on 1/1/2013 rates. See HECO's Form 10-Q dated November 8, 2012 filed with Securities and Exchange Commission at www.hei.com, under SEC filings. See also HECO-WP-C-003.

Blue Chip Economic Indicators[®]

Top Analysts' Forecasts of the U.S. Economic Outlook for the Year Ahead
Vol. 40, No.2, February 10, 2015

2 ■ BLUE CHIP ECONOMIC INDICATORS ■ FEBRUARY 10, 2015

2015 Real GDP Forecast Unchanged At 3.2%

FEBRUARY 2015 Forecast For 2015 SOURCE	Percent Change 2015 From 2014 (Full Year-Over-Prior Year)									Average For 2015			Total Units-2015		2015
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Real GDP (Chained) (2009\$)	GDP Price Index	Nominal GDP (Cur.\$)	Consumer Price Index	Indust. Prod. (Total)	Dis. Income (2009\$)	Pers. Cons. (2009\$)	Personal Exp. (2009\$)	Non-Res. Fix. Inv. (2009\$)	Corp. Profits (Cur.\$)	Treas. Bills 3-mo.	Treas. Notes 10-Year	Unempl. Rate (Civ.)	Housing Starts (Mil.)	Auto&Light Truck Sales (Mil.)
Moody's Analytics	3.7 H	1.4	5.1	1.1	2.8 L	3.8	3.8 H	5.7	14.8 H	0.2	2.9 H	5.3	1.43 H	16.8	-473.3
Societe Generale	3.7 H	1.3	5.0	0.0	na	4.2	3.6	5.5	6.3	0.4	2.3	5.3	1.20	17.6	-470.7
Naroff Economic Advisors*	3.6	2.1 H	5.8 H	0.9	4.3	3.0	3.5	7.2	4.3	0.4	2.6	5.3	1.16	16.9	-495.0
BNP Paribas North America	3.5	na	na	0.1	4.9	4.2	3.4	6.4	5.7	na	2.7	5.3	1.20	na	-452.0
PNC Financial Services Group	3.5	1.0	4.5	1.0	3.9	3.1	3.0	5.3	na	0.5	2.3	5.3	1.09	17.1	-437.3
Economist Intelligence Unit	3.4	1.6	5.0	1.5 H	3.2	2.9	2.8	5.6	na	0.4	2.6	5.4	1.20	16.8	-472.0
ACT Research	3.3	1.2	4.5	0.1	4.1	2.5 L	3.2	5.8	na	0.6	2.5	5.5	1.15	17.0	-465.9
Bank of America Merrill Lynch	3.3	0.3	3.7	-0.3	4.4	na	3.7	5.2	na	0.2	2.3	5.3	1.17	17.3	-495.2
Credit Suisse	3.3	0.9	4.2	0.4	5.2 H	na	3.4	4.5	7.0	na	2.5	5.3	1.05	na	-462.5
DuPont***	3.3	1.0	4.3	0.0	4.1	3.4	3.6	4.5	-1.9 L	0.4	2.1	5.5	1.15	17.0	-469.5
Fannie Mae	3.3	1.3	4.6	0.6	4.1	3.1	3.3	4.7	9.6	0.4	2.0	5.4	1.16	16.4 L	-444.5
General Motors	3.3	1.3	4.6	0.5	3.8	3.5	3.5	5.8	7.0	0.2	2.5	5.3	1.18	na	-467.0
Goldman Sachs & Co.**	3.3	0.6	4.0	0.0	4.1	3.0	3.5	4.4	na	0.3	2.6	5.4	1.17	na	-465.4
High Frequency Economics	3.3	0.9	4.2	0.7	4.5	4.0	3.6	4.1	3.0	0.8 H	2.6	5.2	1.13	17.2	-484.9
Morgan Stanley*	3.3	0.8	4.1	-0.2	3.6	3.3	3.4	4.5	8.0	0.0 L	2.7	5.3	1.22	17.1	-460.2
MUFG Union Bank	3.3	1.8	5.1	1.1	4.1	na	3.4	7.7 H	7.0	0.3	2.6	5.2	1.20	16.9	-470.0
National Assn. of Home Builders	3.3	1.2	4.5	0.8	4.7	2.7	3.0	4.8	na	0.5	2.2	5.6	1.17	16.7	-445.0
Northern Trust Company*	3.3	0.8	4.1	0.6	3.2	3.1	3.6	5.4	na	0.3	2.5	5.5	1.20	16.9	-496.6
Standard & Poors Corp.*	3.3	1.7	5.0	1.0	4.3	4.0	3.3	5.5	9.4	0.3	2.5	5.5	1.20	17.0	na
Swiss Re	3.3	-0.2 L	3.1 L	-0.3	3.8	3.1	3.4	5.7	7.7	0.7	2.4	5.3	1.18	16.7	-477.5
Turning Points (Micrometrics)	3.3	1.3	4.6	0.4	3.3	3.0	3.0	4.7	11.4	0.1	2.7	5.6	1.16	16.7	-454.3
U.S. Chamber of Commerce	3.3	0.7	4.1	0.6	4.1	2.7	3.7	5.5	6.6	0.3	2.2	5.4	1.10	na	-500.6
UCLA Business Forecasting Proj.*	3.3	1.0	4.3	1.0	3.3	2.8	3.5	5.5	12.5	0.5	2.4	5.4	1.21	17.0	-447.8
Comerica	3.2	1.2	4.4	0.4	4.5	4.3 H	2.5 L	7.4	na	0.3	2.5	5.2	1.09	17.1	-434.0
Ford Motor Company*	3.2	1.4	4.6	0.6	3.8	3.6	3.6	5.2	na	0.6	2.7	5.4	1.19	na	-478.5
J P Morgan Chase	3.2	0.9	4.1	-0.5	3.8	4.0	3.7	5.5	0.8	na	2.2	5.4	1.10	16.8	-507.3
MacroFin Analytics	3.2	1.1	4.3	0.9	4.6	2.8	3.2	4.9	7.4	0.3	2.2	5.6	1.15	16.6	-462.5
National Assn. of Realtors	3.2	1.5	4.8	1.0	4.0	2.8	3.0	4.7	7.5	0.5	2.3	5.7 H	1.21	16.9	-472.5
Nomura Securities	3.2	1.3	4.4	-0.3	4.1	3.2	3.6	4.0	na	0.5	2.3	5.3	1.12	16.7	-516.3
RDQ Economics	3.2	0.6	3.9	0.0	4.2	3.1	3.4	5.7	9.2	0.6	2.6	5.2	1.10	17.0	-496.0
Wells Capital Management	3.2	1.5	4.8	0.4	4.1	3.5	3.6	3.9	5.3	0.5	2.0	5.6	1.13	16.7	-480.3
AIG	3.1	1.3	4.5	0.6	3.7	3.5	3.3	4.7	7.3	0.3	2.1	5.4	1.21	17.0	-405.6 H
BMO Capital Markets*	3.1	1.1	4.2	0.2	4.0	3.8	3.5	3.5 L	3.6	0.1	1.9 L	5.3	1.22	17.0	-512.0
FedEx Corporation	3.1	1.2	4.3	0.5	3.9	3.0	3.2	5.4	5.0	0.3	2.3	5.4	1.12	17.0	-482.9
Inform - Univ. of Maryland	3.1	1.1	4.3	0.6	4.0	3.0	3.0	5.9	6.9	0.3	2.6	5.5	1.17	16.9	-452.4
Macroeconomic Advisers, LLC**	3.1	1.2	4.4	0.4	4.1	3.7	3.7	4.7	5.5	0.2	2.1	5.4	1.13	16.9	-499.0
Mesirow Financial	3.1	1.2	4.4	0.4	4.3	3.7	3.7	5.0	6.0	0.2	2.1	5.2	1.15	18.2 H	-490.3
Oxford Economics	3.1	1.2	4.3	0.3	3.7	3.2	3.3	4.8	8.0	0.1	2.0	5.5	1.20	16.9	-440.9
Action Economics	3.0	1.1	4.1	0.0	4.3	3.9	3.6	4.5	6.5	0.4	2.0	5.4	1.10	17.0	-501.6
Anheuser Pierpont Securities	3.0	1.4	4.4	0.2	4.2	3.4	3.0	5.0	6.0	0.6	2.9 H	5.4	1.16	16.7	-463.0
Barclays*	3.0	0.9	4.0	-0.1	3.5	na	3.1	5.9	na	na	2.0	5.3	1.18	na	-497.3
Daiwa Capital Markets America	3.0	1.1	4.1	0.2	4.1	3.2	3.3	5.9	4.6	0.5	2.3	5.5	1.08	16.8	-524.0
Eaton Corporation	3.0	1.3	4.4	1.1	3.5	2.8	3.0	5.4	5.8	0.3	2.4	5.5	1.17	16.7	-451.7
Georgia State University*	3.0	1.2	4.2	0.5	3.3	3.1	3.3	4.3	7.5	0.3	2.1	5.5	1.12	16.5	-476.1
IHS Global Insight	3.0	1.5	4.3	-0.6 L	na	3.5	3.5	4.3	6.9	0.4	2.3	5.6	1.18	16.9	-542.8 L
Moody's Capital Markets	3.0	1.0	4.0	0.6	3.4	3.1	3.0	3.8	2.3	0.3	2.4	5.6	1.15	16.8	-453.0
SOM Economics, Inc.	3.0	1.2	4.3	0.1	3.9	3.4	2.6	5.9	4.0	0.3	2.1	5.3	1.12	17.2	-443.0
UBS	3.0	1.1	4.1	-0.1	3.4	3.1	3.2	5.2	na	0.6	2.0	5.6	1.25	na	-495.6
Conference Board*	2.9	0.8	3.7	0.0	3.5	3.1	3.2	4.7	2.1	0.4	2.2	5.4	1.16	16.9	-488.8
Econoclast	2.9	1.3	4.2	1.3	3.7	3.2	3.0	3.9	4.5	0.3	2.2	5.4	1.16	16.8	-502.0
RBS	2.9	1.2	4.1	0.2	3.6	3.5	3.2	4.4	8.0	0.2	2.5	5.5	1.12	16.8	-495.0
RBC Capital Markets	2.8 L	0.8	3.7	0.1	3.8	na	2.7	4.3	na	0.4	2.6	5.1 L	1.04 L	16.9	-448.0
Wells Fargo	2.8 L	1.1	3.9	0.4	4.3	3.0	3.3	5.4	4.0	0.6	2.2	5.5	1.17	17.1	-507.2
2015 Consensus: Feb. Avg.	3.2	1.1	4.3	0.4	3.9	3.3	3.3	5.1	6.3	0.4	2.4	5.4	1.16	16.9	-475.5
Top 10 Avg.	3.5	1.6	5.0	1.1	4.6	4.0	3.7	6.4	9.9	0.6	2.7	5.6	1.23	17.3	-439.8
Bottom 10 Avg.	2.9	0.6	3.8	-0.2	3.3	2.8	2.9	4.1	2.7	0.1	2.0	5.2	1.09	16.6	-511.3
January Avg.	3.2	1.5	4.7	0.8	3.8	3.1	3.0	5.9	7.0	0.4	2.7	5.5	1.17	16.9	-457.3
Historical data: 2011	1.6	2.1	3.7	3.2	3.3	2.5	2.3	7.7	4.0	0.1	2.8	9.0	0.61	12.7	-459.4
2012	2.3	1.8	4.2	2.1	3.8	3.0	1.8	7.2	11.3	0.1	1.8	8.1	0.78	14.4	-452.5
2013	2.2	1.5	3.7	1.5	2.9	-0.2	2.4	3.0	4.2	0.1	2.4	7.4	0.92	15.5	-420.4
2014	2.4	1.5	3.9	1.6	4.2	2.4	2.5	6.1	na	0.0	2.5	6.2	1.01	16.4	-452.6
Number Of Forecasts Changed From A Month Ago:															
Down	23	46	42	49	11	4	2	34	20	15	48	26	14	11	44
Same	14	4	4	3	11	7	5	10	11	28	4	23	26	22	3
Up	16	2	6	1	29	37	46	9	7	5	0	4	13	12	5
February Median	3.2	1.2	4.3	0.4	4.0	3.2	3.3	5.2	6.6	0.3	2.3	5.4	1.16	16.9	-472.9
February Diffusion Index	43%	8%	15%	5%	68%	84%	92%	26%	33%	40%	4%	29%	49%	51%	13%

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

HAWAIIAN ELECTRIC COMPANY, INC.
EXHIBIT A

HECO-WP-C-003
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3% (2.91%)
3%

JOB CODE	JOB TITLE	1/1/2013	7/1/2013	1/1/2014	7/1/2014	1/1/2015	7/1/2015	1/1/2016	7/1/2016	1/1/2017	7/1/2017	1/1/2018	7/1/2018
TL285	FACILITY OPERATIONS MECHANIC												
	1st 3 mos.	20.83		21.45		22.07		22.75		23.37		23.99	
	Next 3 mos.	21.84		22.50		23.16		23.87		24.53		25.19	
	Next 6 mos.	22.91		23.60		24.29		25.03		25.72		26.41	
	Next 6 mos.	24.06		24.70		25.50		26.28		27.00		27.72	
	Thereafter	25.26		26.02		26.78		27.60		28.36		29.12	
CL829	CASHIER												
	1st 3 mos.	20.39		21.00		21.61		22.27		22.86		23.49	
	Next 3 mos.	21.32		21.96		22.60		23.29		23.93		24.57	
	Next 3 mos.	22.42		23.09		23.76		24.49		25.16		25.83	
	Next 6 mos.	23.50		24.21		24.92		25.68		26.39		27.10	
	Next 6 mos.	24.65		25.39		26.13		26.93		27.67		28.41	
	Thereafter	25.86		26.64		27.42		28.26		29.04		29.82	
CLC05	SR INFORMATION STORAGE EQUIPMENT OPERATOR												
CL18	SYSTEM OPERATION CLERK												
CL20	TEST AND SUBSTATION CLERK												
CL22	DESKTOP PUBLISHING OPERATOR												
CL104	POWER PLANT CLERK												
CL257	MOTOR FLEET CLERK												
CL328	METER CLERK												
CL21	PRINT PRODUCTION OPERATOR												
CL684	COMPUTER SYSTEMS OPERATOR TRAINEE												
	1st 3 mos.	20.83		21.45		22.07		22.75		23.37		23.99	
	Next 3 mos.	21.84		22.50		23.16		23.87		24.53		25.19	
	Next 3 mos.	22.91		23.60		24.29		25.03		25.72		26.41	
	Next 6 mos.	24.06		24.78		25.50		26.28		27.00		27.72	
	Next 6 mos.	25.26		26.02		26.78		27.60		28.36		29.12	
	Thereafter	26.47		27.26		28.05		28.91		29.70		30.49	
TL180	CONDENSER CLEANER												
	1st 6 mos.	22.91		23.60		24.29		25.03		25.72		26.41	
	Next 6 mos.	24.06		24.78		25.50		26.28		27.00		27.72	
	Next 6 mos.	25.26		26.02		26.78		27.60		28.36		29.12	
	Thereafter	26.47		27.26		28.05		28.91		29.70		30.49	
CL A49	PROJECT CLERK												
CL A81	STANDARDS CLERK												
CL12	JOINT POLE AIDE												
CL13	PROJECT CLERK												
CL15	FIELD SERVICE CLERK												
	1st 3 mos.	21.32		21.96		22.60		23.29		23.93		24.57	
	Next 3 mos.	22.42		23.09		23.76		24.49		25.16		25.83	
	Next 3 mos.	23.50		24.21		24.92		25.68		26.39		27.10	
	Next 6 mos.	24.65		25.39		26.13		26.93		27.67		28.41	
	Next 6 mos.	25.86		26.64		27.42		28.26		29.04		29.82	
	Thereafter	27.17		27.99		28.81		29.69		30.51		31.33	
T335	TRUCK DRIVER A	27.21		28.03		28.85		29.73		30.55		31.37	
CL406	METER READER												
	1st 3 mos.	20.83 X 1.03 = 21.45		21.45 X 1.0291 = 22.07		22.07		22.75		23.37		23.99	
	Next 3 mos.	21.84		22.50		23.16		23.87		24.53		25.19	
	Next 6 mos.	24.06		24.78		25.50		26.28		27.00		27.72	
	Next 6 mos.	25.26		26.02		26.78		27.60		28.36		29.12	
	Next 6 mos.	26.47		27.26		28.05		28.91		29.70		30.49	
	Thereafter	27.81		28.64		29.47		30.37		31.20		32.03	
CL23	CUSTOMER TECHNOLOGY CLERK												
CL1013	INVOICE PAYMENT CLERK												
CL17	FUELS RECORDS CLERK												
	1st 3 mos.	22.42 X 1.03 = 23.09		23.09 X 1.0291 = 23.76		23.76		24.49		25.16		25.83	
	Next 3 mos.	23.50		24.21		24.92		25.68		26.39		27.10	
	Next 3 mos.	24.65		25.39		26.13		26.93		27.67		28.41	
	Next 6 mos.	25.86		26.64		27.42		28.26		29.04		29.82	
	Next 6 mos.	27.17		27.99		28.81		29.69		30.51		31.33	
	Thereafter	28.51		29.37		30.23		31.16		32.02		32.88	
CL1011	PURCHASING CLERK												
	1st 3 mos.	23.50		24.21		24.92		25.68		26.39		27.10	
	Next 3 mos.	24.65		25.39		26.13		26.93		27.67		28.41	
	Next 6 mos.	25.86		26.64		27.42		28.26		29.04		29.82	
	Next 6 mos.	27.17		27.99		28.81		29.69		30.51		31.33	
	Thereafter	28.51		29.37		30.23		31.16		32.02		32.88	

Hawaiian Electric Company, Inc.
CIP CT-1 in 2015 RAM Calculations
HECO Summary
(\$ in 000's)

Line	Description	Rate Base CIP CT-1 Cost Recoverable at 12/31/14	2015 Activities		Net Change	Rate Base CIP CT-1 Cost Recoverable at 12/31/15
			Additions (12 months)	Amortization (12 months) (Note 1)		
1	Depreciation deferral	\$ 1,110	\$ -	\$ (251)	\$ (251)	\$ 859
2	Carrying charge (AFUDC)	3,105	-	(703)	(703)	2,402
3 = 1 + 2	CIP CT-1 deferred costs recoverable	\$ 4,215		\$ (954)	\$ (954)	\$ 3,261

(1) Amortized over 6 years, per Exhibit 1, page 1 of 3 of the Hawaiian Electric 2009 Test Year Rate Case Stipulated Settlement Agreement between the Hawaiian Electric Companies and the Division of Consumer Advocacy regarding Certain Regulatory Matters, filed January 28, 2013 in Docket No. 2008-0083. Amortization of CIP CT-1 began May 2013. Refer to CIP CT-1 amortization schedule attached.

(2) Amounts may not add up due to rounding.

Hawaiian Electric Company, Inc.
CIS in 2015 RAM Calculations
HECO Summary
(\$ in 000's)

Line	Description	Rate Base CIS Deferred Costs Recoverable at 12/31/14	2015 Activities			Rate Base CIS Deferred Costs Recoverable at 12/31/15
			Additions (12 months)	Amortization (12 months) (Note 4)	Net Change	
1	CIS Deferred Cost (Note 1)	\$ 33,790	\$ -	\$ (3,245)	\$ (3,245)	\$ 30,546
2	CIS Deferred O&M Reclass (Note 1)	\$ 2,149	\$ -	\$ (206)	\$ (206)	\$ 1,943
3	Carrying charges (Note 2)	\$ 1,939	\$ -	\$ (186)	\$ (186)	\$ 1,753
4	Write-Off (Note 3)	\$ (25,173)	\$ -	\$ 2,417	\$ 2,417	\$ (22,756)
5 = sum 1 - 4	CIS deferred costs recoverable	\$ 12,705	\$ -	\$ (1,220)	\$ (1,220)	\$ 11,486

- (1) See the CIS Project Final Cost Report that filed on April 1, 2013, in Docket No. 04-0268.
- (2) See Exhibit 2, p.1, of the Hawaiian Electric 2009 Test Year Rate Case Stipulated Settlement Agreement between the Hawaiian Electric Companies and the Division of Consumer Advocacy regarding Certain Regulatory Matters, filed January 28, 2013 in Docket No. 2008-0083.
- (3) See Hawaiian Electric 2009 Test Year Rate Case Stipulated Settlement Agreement between the Hawaiian Electric Companies and the Division of Consumer Advocacy regarding Certain Regulatory Matters, filed January 28, 2013 in Docket No. 2008-0083.
- (4) Amortized over 12 years, per Exhibit 1, page 2 of 3, footnote 1 of the Hawaiian Electric 2009 Test Year Rate Case Stipulated Settlement Agreement between the Hawaiian Electric Companies and the Division of Consumer Advocacy regarding Certain Regulatory Matters, filed January 28, 2013 in Docket No. 2008-0083. Refer to CIS Amortization schedule included.
- (5) Amounts may not add up due to rounding.

Hawaiian Electric Company, Inc.
CIS in 2015 RAM Calculations
CIS Amortization Schedule
(\$ in 000's)

		CIS Final Cost - Amort (Rate Base Impact)		Rounded	
Amort. Period		144 months			
Reg Asset Balance per GL					
Bal. 5/2013		14,636,585			
1	Jun-13	(101,642.95)	14,534,942.19		
2	Jul-13	(101,642.95)	14,433,299.24		
3	Aug-13	(101,642.95)	14,331,656.28		
4	Sep-13	(101,642.95)	14,230,013.33		
5	Oct-13	(101,642.95)	14,128,370.38		
6	Nov-13	(101,642.95)	14,026,727.43		
7	Dec-13	(101,642.95)	13,925,084.47	(102)	13,925
8	Jan-14	(101,642.95)	13,823,441.52		
9	Feb-14	(101,642.95)	13,721,798.57		
10	Mar-14	(101,642.95)	13,620,155.62		
11	Apr-14	(101,642.95)	13,518,512.66		
12	May-14	(101,642.95)	13,416,869.71		
13	Jun-14	(101,642.95)	13,315,226.76		
14	Jul-14	(101,642.95)	13,213,583.81		
15	Aug-14	(101,642.95)	13,111,940.85		
16	Sep-14	(101,642.95)	13,010,297.90		
17	Oct-14	(101,642.95)	12,908,654.95		
18	Nov-14	(101,642.95)	12,807,012.00		
19	Dec-14	(101,642.95)	12,705,369.05	(102)	12,705
20	Jan-15	(101,642.95)	12,603,726.09		
21	Feb-15	(101,642.95)	12,502,083.14		
22	Mar-15	(101,642.95)	12,400,440.19		
23	Apr-15	(101,642.95)	12,298,797.24		
24	May-15	(101,642.95)	12,197,154.28		
25	Jun-15	(101,642.95)	12,095,511.33		
26	Jul-15	(101,642.95)	11,993,868.38		
27	Aug-15	(101,642.95)	11,892,225.43		
28	Sep-15	(101,642.95)	11,790,582.47		
29	Oct-15	(101,642.95)	11,688,939.52		
30	Nov-15	(101,642.95)	11,587,296.57		
31	Dec-15	(101,642.95)	11,485,653.62	(102)	11,486
32	Jan-16	(101,642.95)	11,384,010.66		
33	Feb-16	(101,642.95)	11,282,367.71		
34	Mar-16	(101,642.95)	11,180,724.76		
35	Apr-16	(101,642.95)	11,079,081.81		
36	May-16	(101,642.95)	10,977,438.86		
37	Jun-16	(101,642.95)	10,875,795.90		
38	Jul-16	(101,642.95)	10,774,152.95		
39	Aug-16	(101,642.95)	10,672,510.00		
40	Sep-16	(101,642.95)	10,570,867.05		
41	Oct-16	(101,642.95)	10,469,224.09		
42	Nov-16	(101,642.95)	10,367,581.14		
43	Dec-16	(101,642.95)	10,265,938.19		

Yearly Amortization
(1,220)

Hawaiian Electric Company, Inc.
CIS in 2015 RAM Calculations
CIS Amortization Schedule (continued)
(\$ in 000's)

		CIS Final Cost - Amort (Rate Base Impact)	Rounded
44	Jan-17	(101,642.95)	10,164,295.24
45	Feb-17	(101,642.95)	10,062,652.28
46	Mar-17	(101,642.95)	9,961,009.33
47	Apr-17	(101,642.95)	9,859,366.38
48	May-17	(101,642.95)	9,757,723.43
49	Jun-17	(101,642.95)	9,656,080.47
50	Jul-17	(101,642.95)	9,554,437.52
51	Aug-17	(101,642.95)	9,452,794.57
52	Sep-17	(101,642.95)	9,351,151.62
53	Oct-17	(101,642.95)	9,249,508.66
54	Nov-17	(101,642.95)	9,147,865.71
55	Dec-17	(101,642.95)	9,046,222.76
56	Jan-18	(101,642.95)	8,944,579.81
57	Feb-18	(101,642.95)	8,842,936.86
58	Mar-18	(101,642.95)	8,741,293.90
59	Apr-18	(101,642.95)	8,639,650.95
60	May-18	(101,642.95)	8,538,008.00
61	Jun-18	(101,642.95)	8,436,365.05
62	Jul-18	(101,642.95)	8,334,722.09
63	Aug-18	(101,642.95)	8,233,079.14
64	Sep-18	(101,642.95)	8,131,436.19
65	Oct-18	(101,642.95)	8,029,793.24
66	Nov-18	(101,642.95)	7,928,150.28
67	Dec-18	(101,642.95)	7,826,507.33
68	Jan-19	(101,642.95)	7,724,864.38
69	Feb-19	(101,642.95)	7,623,221.43
70	Mar-19	(101,642.95)	7,521,578.47
71	Apr-19	(101,642.95)	7,419,935.52
72	May-19	(101,642.95)	7,318,292.57
73	Jun-19	(101,642.95)	7,216,649.62
74	Jul-19	(101,642.95)	7,115,006.67
75	Aug-19	(101,642.95)	7,013,363.71
76	Sep-19	(101,642.95)	6,911,720.76
77	Oct-19	(101,642.95)	6,810,077.81
78	Nov-19	(101,642.95)	6,708,434.86
79	Dec-19	(101,642.95)	6,606,791.90
80	Jan-20	(101,642.95)	6,505,148.95
81	Feb-20	(101,642.95)	6,403,506.00
82	Mar-20	(101,642.95)	6,301,863.05
83	Apr-20	(101,642.95)	6,200,220.09
84	May-20	(101,642.95)	6,098,577.14
85	Jun-20	(101,642.95)	5,996,934.19
86	Jul-20	(101,642.95)	5,895,291.24
87	Aug-20	(101,642.95)	5,793,648.28
88	Sep-20	(101,642.95)	5,692,005.33
89	Oct-20	(101,642.95)	5,590,362.38
90	Nov-20	(101,642.95)	5,488,719.43
91	Dec-20	(101,642.95)	5,387,076.48

Hawaiian Electric Company, Inc.
CIS in 2015 RAM Calculations
CIS Amortization Schedule (continued)
(\$ in 000's)

		CIS Final Cost - Amort (Rate Base Impact)	Rounded
92	Jan-21	(101,642.95)	5,285,433.52
93	Feb-21	(101,642.95)	5,183,790.57
94	Mar-21	(101,642.95)	5,082,147.62
95	Apr-21	(101,642.95)	4,980,504.67
96	May-21	(101,642.95)	4,878,861.71
97	Jun-21	(101,642.95)	4,777,218.76
98	Jul-21	(101,642.95)	4,675,575.81
99	Aug-21	(101,642.95)	4,573,932.86
100	Sep-21	(101,642.95)	4,472,289.90
101	Oct-21	(101,642.95)	4,370,646.95
102	Nov-21	(101,642.95)	4,269,004.00
103	Dec-21	(101,642.95)	4,167,361.05
104	Jan-22	(101,642.95)	4,065,718.09
105	Feb-22	(101,642.95)	3,964,075.14
106	Mar-22	(101,642.95)	3,862,432.19
107	Apr-22	(101,642.95)	3,760,789.24
108	May-22	(101,642.95)	3,659,146.29
109	Jun-22	(101,642.95)	3,557,503.33
110	Jul-22	(101,642.95)	3,455,860.38
111	Aug-22	(101,642.95)	3,354,217.43
112	Sep-22	(101,642.95)	3,252,574.48
113	Oct-22	(101,642.95)	3,150,931.52
114	Nov-22	(101,642.95)	3,049,288.57
115	Dec-22	(101,642.95)	2,947,645.62
116	Jan-23	(101,642.95)	2,846,002.67
117	Feb-23	(101,642.95)	2,744,359.71
118	Mar-23	(101,642.95)	2,642,716.76
119	Apr-23	(101,642.95)	2,541,073.81
120	May-23	(101,642.95)	2,439,430.86
121	Jun-23	(101,642.95)	2,337,787.90
122	Jul-23	(101,642.95)	2,236,144.95
123	Aug-23	(101,642.95)	2,134,502.00
124	Sep-23	(101,642.95)	2,032,859.05
125	Oct-23	(101,642.95)	1,931,216.09
126	Nov-23	(101,642.95)	1,829,573.14
127	Dec-23	(101,642.95)	1,727,930.19
128	Jan-24	(101,642.95)	1,626,287.24
129	Feb-24	(101,642.95)	1,524,644.29
130	Mar-24	(101,642.95)	1,423,001.33
131	Apr-24	(101,642.95)	1,321,358.38
132	May-24	(101,642.95)	1,219,715.43
133	Jun-24	(101,642.95)	1,118,072.48
134	Jul-24	(101,642.95)	1,016,429.52
135	Aug-24	(101,642.95)	914,786.57
136	Sep-24	(101,642.95)	813,143.62
137	Oct-24	(101,642.95)	711,500.67
138	Nov-24	(101,642.95)	609,857.71
139	Dec-24	(101,642.95)	508,214.76
140	Jan-25	(101,642.95)	406,571.81
141	Feb-25	(101,642.95)	304,928.86
142	Mar-25	(101,642.95)	203,285.90
143	Apr-25	(101,642.95)	101,642.95
144	May-25	(101,642.95)	0.00

Hawaiian Electric Company, Inc.
Revenue Decoupling - Rate Base RAM
2014 Major Projects and Other Plant Additions

Grandparent Project #	Project	Plant Addition Date	Net Plant Adds Thru 12/31/13 (4)	Total Project Cost (8)	2014 Plant Additions			Net Plant Adds Thru 12/31/14 (5) = (4) + (3)	Project to Date Recorded CIAC 12/31/14 (F)	Gross Plant Additions 12/31/14 (G) = (E) - (F)	PUC Approved, net (H)	Gross PUC Approved (I) = (H) - (F) - (J)	Over/(Under) PUC Approved (K) = (G) - (J)	Functional Plant Category
					Project Cost Adjustments (C)	Net Project Cost (D) = (B) - (C)	CIAC & Adjustments (C)							
1	Y001119													
	P0001504	Kalo Substation Land	101,440	-	-	-	102,440	-	-	-	-	-	-	Land
	P0001505	Kalo Substation	2,099,046	6,548,755	-	6,548,755	6,548,755	-	-	-	-	-	-	Distribution
	P0001506	North South Road 46KV Line	1,218,895	1,218,895	-	1,218,895	1,218,895	-	-	-	-	-	-	Distribution
	P0001507	Kalo Sub 46KV & 12KV Dist	171,237	171,237	-	171,237	171,237	-	-	-	-	-	-	Distribution
	P0001508	Kalo Telecomm	25,906	25,906	-	25,906	25,906	-	-	-	-	-	-	Communication
	P0001554	Kalo Sub 12KV Work	2,201,486	7,964,793	-	7,964,793	10,166,279	(2,173,999)	12,340,278	12,055,427 (4a)	14,229,426	(1,889,148)		Distribution
2	Y00038	2014 straggling	6,661,331	485,650	-	485,650	7,146,981	-	-	7,146,981	3,627,507 (4b)	3,627,507	3,519,474	Distribution
3	Y00038	2014/04	-	4,958,840	-	4,958,840	4,958,840	-	4,958,840	4,013,624	4,013,624	1,170,090 (5)		Distribution
	P0001579	Kakaako Malai DOT Queen-Cook	-	3,961,600	-	3,961,600	3,961,600	-	3,961,600	3,170,090	3,170,090	5,183,714 (4b)	1,736,726	Distribution
	P0009900	BPT Tank 133 Improvements	-	6,095,787	-	6,095,787	6,095,787	-	6,095,787	6,995,582 (4c)	6,995,582	(899,795)	(899,795)	Production Stream
5	P0001492	Pulele 80MVA Tsf #2	-	3,449,859	-	3,449,859	3,449,859	-	3,449,859	4,113,444 (4d)	4,113,444	(663,585)	(663,585)	Transmission
6	P0001370	DOT Airport DSG	(1,993,000) (2)	4,965,396	-	4,965,396	2,972,396	(1,993,000)	4,965,396	3,400,000 (4e)	3,400,000	5,393,000	(427,604)	Production Other
7	P0001494	Pulele 80MVA Tsf #3	4,299,560	28,327	-	28,327	4,327,887	-	4,327,887	4,501,730 (4d)	4,501,730	4,501,730	(173,843)	Transmission
8	Y48500	Various EOTF Phase 2	9,804,341	7,357	(43,725)	(43,725)	9,767,973	(5,101,463)	14,869,436	10,959,000 (4f)	10,959,000	15,160,463	(291,027)	Distribution
9	Y00127	Kapolei Substation	6,997,764	6,459	-	6,459	7,004,223	-	7,004,223	9,853,084 (4d)	9,853,084	9,853,084	(2,848,861)	Distribution
10	P7650000	W8 Boiler Controls Upgrade	6,329,105	(18,503)	-	(18,503)	6,310,602	-	6,310,602	5,236,138 (4n)	5,236,138	5,236,138	1,074,464	Production Stream
11	P7590000	W7 Controls Upgrade	5,437,305	8,237	-	8,237	5,445,542	-	5,445,542	5,021,440 (4l)	5,021,440	5,021,440	424,102	Production Stream
	Y00138	Various Kahuaku Wind Power	2,132,812	-	-	-	2,132,812	-	2,132,812	2,125,651 (1)	2,125,651	2,125,651	7,161	Various
2	P0001399	W8 Main Transformer Replace	2,600,439	-	-	-	2,600,439	-	2,600,439	2,357,425 (1)	2,357,425	2,357,425	243,014	Steam Production

Other Projects with Costs Above the PUC Approved

- [1] Transmittal No. 14-03 (Decoupling, Hawaiian Electric's RBA Rate Adjustment Tariff Filing), HECO-WP-D2-001, filed on March 31, 2014.
- [2] See Schedule G1, General Note and Note (2)
- [3] 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 2014, in Docket No. 03-0257, filed on March 27, 2015. See HECO-WP-D2-002.
- [4] Per the Final Decision and Order and Dismissing 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."
- [4a] Decision and Order, p. 27, Docket No. 2008-0070, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for item Y001119, Kalo Substation, Kalo Transformers #1 and #2, and 46KV and 12KV Circuits, filed August 14, 2008. Revised cost estimate was submitted with interim accounting report dated March 27, 2014. See HECO-WP-D3-001, NOTE (1)(i).
- [4b] Letter From: D. Endo-Omoteo; Exhibit IX Page 2 of 5; To: Commission; Re: Docket No. 2009-0042, DOT Underground Requests/Kakaako Malai 25 kV Circuits; Revised Estimate of Cost Savings, dated June 12, 2009. Total grandparent cost approved in Decision and Order, p. 9, Docket No. 2009-0042. Portion of the Underground Conversion Cost for item Y00038, DOT Underground Request, and Kakaako Malai Kewalo and Kakaako Malai Wilei 25KV Circuits, and a Waiver of Rule 13 of Hawaiian Electric's Tariff to Allow Hawaiian Electric to Pay for a Portion of the Underground Conversion Cost for item P0001579, DOT Underground Request, filed August 7, 2009. See HECO-WP-D3-001, NOTE (1)(i) & (1)(j).
- [4c] Decision and Order, p. 18, Docket No. 2010-0316, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for item P0009900, Barbers Point Fuel Tank 133 Renovation, filed Nov. 30, 2010.
- [4d] Decision and Order, p. 22, Docket No. 2011-0156, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for item P0001494, Pulele Tsf #3 80MVA, and item P0001492, Pulele Tsf #2 80MVA, filed Oct 12, 2012. Actual total for item P0001494, Pulele Tsf #3 80MVA per Hawaiian Electric Application, Exhibit VI Page 5 of 7, filed July 13, 2011.
- [4e] Decision and Order, p. 38, Docket No. 2008-0329, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for item Y00127, Kapolei Substation, filed February 16, 2012.
- [4f] Decision and Order, p. 8, Docket No. 2010-0062, For Approval to Modify Phase 2 of the East Oahu Transmission Project, filed October 19, 2010.
- [4g] See Hawaiian Electric response to CAJR-292, Attachment 8, p. 10, filed in Docket No. 2010-0080, Hawaiian Electric 2011 Test Year Rate Case.
- [4h] See Hawaiian Electric response to CAJR-292, Attachment 8, p. 6, filed in Docket No. 2010-0080, Hawaiian Electric 2011 Test Year Rate Case.
- [5] The CIAC estimated to be included in 2015 (see Schedule G2) is not included in the gross PUC approved amount of \$1,170,090 for the purpose of the Over/(Under) PUC Approved calculation.

2014 General Order No. 7 (GO7) Report Summary Plant Additions

Projects	2014 Plant Addition (1)
Less than \$2.5M	239,412,448
Greater than \$2.5M	29,913,802
Total Plant Additions	269,326,250
 Less: Major Project additions in 2014	
DOT Airport DSG	(4,965,396)
BPT Tank 133 Improvements	(6,095,787)
Pukele 80MVA Tsf #2	(3,449,859)
Pukele 80MVA Tsf #3	(28,327)
W8 Boiler Controls Upgrade	18,503
W7 Controls Upgrade	(8,237)
Kakaako Makai-Iwilei 25kV DL	(485,650)
Kakaako Makai-Kewalo 25kV DL	(4,958,840)
Kakaako Makai DOT Queen-Cook	(1,961,600)
Kaloi Substation	(6,548,755)
Kaloi Sub 46kV & 12kV Distr	(1,218,895)
Kaloi Telecomm	(171,237)
Kaloi Sub 12kV Work	(25,906)
Kapolei Substation	(6,459)
EOTP Phase 2	(7,357)
	<u>(29,913,802)</u>
 Baseline Plant Additions	 <u>239,412,448</u>

(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 2014, in Docket No. 03-0257 filed on March 27, 2015.

Hawaiian Electric Company
2015 Plant Additions - Major Projects Support

Grand-Parent	Project	Functional Category	Plant Addition Approved, net	A	B	C + A - B	D	E	F = D + E	G = F - C	2015 Plant Addition Qualifying for RB RAM (Note 3)	Future Years
			[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]
	P0001370: DOT Airport DSG	Production Other	201408	3,400,000 [1a]	(1,993,000) [1a]	5,393,000 [1a]	4,965,396	81,914	5,947,310	(845,690) [1a]	81,914	162,961
	P0001492: Pulehale BOMVA T&E	Transmission	201405	4,113,444 [1b]	-	4,113,444	3,449,859	50,132	3,499,991	(613,463)	50,132	-
	P0001494: Pulehale BOMVA T&E	Transmission	201304	4,501,730 [1b]	-	4,501,730	4,327,887	(15,782)	4,312,105	(185,625)	(15,782)	-
Y00038	P0000783: Kakaako Makai-Niwai	Distribution	201307	3,627,507 [1c]	-	3,627,507	7,146,981	675,000	7,821,981	4,194,474	-	-
Y00038	P0000672: Kakaako Makai-Kewalo	Distribution	201404	4,013,624 [1d]	(3,847,195) [1d]	166,429	4,958,840	1,623,229	6,582,069	2,568,445	-	-
	P0001579: Kakaako Makai DOT Queen-Cook	Distribution	201404	3,170,090 [1d]	(3,847,195) [1d]	(677,105)	3,850,930	3,812,285 [1d]	5,812,530	795,245 [1d]	-	(1d)
				5,183,714	(3,847,195)	9,030,909	6,920,440	5,474,159	12,394,599	3,363,690	-	-
Y00119	P0001506: Kalo Substation	Distribution	201403	12,056,427 [1e]	(2,173,999) [1e]	14,230,426 [1e]	12,340,278	4,413	12,344,691	(1,884,735) [1e]	4,413	-
	P0001507: Kalo Sub 46kV & 12kV Distr	Distribution	201403	1,218,895	-	1,218,895	6,549,680	925	6,549,680	-	-	-
	P0001508: Kalo Telecom	Communication	201403	171,237	-	171,237	1,218,895	-	1,218,895	-	-	-
	P0001554: Kalo Sub 12kV Work	Distribution	201403	25,906	-	25,906	171,237	-	171,237	-	-	-
	P0001504: Kalo Substation Land	Land	201306	2,276,439	-	2,276,439	25,906	-	25,906	-	-	-
	P0001506: North South Road 46kV Line	Distribution	201303	2,099,046	-	2,099,046	2,276,439	3,488	2,276,439	-	-	-
				12,056,427 [1e]	(2,173,999) [1e]	14,230,426 [1e]	12,340,278	4,413	12,344,691	(1,884,735) [1e]	4,413	-
Y000100	EOTF Ph2	Distribution	various	10,059,000 [1f]	(5,101,463)	15,160,463	14,869,436	8,814	14,878,250	(282,213)	8,814	-
	P0000900: BPT Tank 133 Improvements	Production Steam	201412	6,995,582 [1g]	-	6,995,582	6,095,787	1,098,559	7,194,346	198,764 [1g]	899,795 [1g]	-
												1,029,268

NOTE 1: Amount qualifying for 2015 rate base RAM recovery is limited to the lower of the 2015 gross plant addition (column C) or the PUC approved amount. In the case of straggling costs, the amount qualifying for 2015 rate base RAM recovery is limited to the lower of the

[1] Per the Final Decision and Order and Docket No. 2011-0156, 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, p. 38, Docket No. 2008-0328. For Waiver of the Airport Dispatchable Standby Generation Project from the Competitive Bidding Framework, Approval of a Dispatchable Standby Generation Agreement with the State of Hawaii, Department of Transportation, Approval of the Dispatchable Standby Generation Project Cost Accounting Approval to Include the Project Fuel Costs on Hawaiian Electric Company, Inc.'s Energy Cost Adjustment Clause and Approval to Commit Funds in Excess of \$2,500,000, filed June 25, 2009. The PUC approved amount of \$3,400,000 net of contributions. Gross plant addition of \$5,043,310 net of \$1,693,000 contributions received in 2012 reported on Schedule G1, is \$3,054,310 and is \$345,690 less than the PUC approved amount of \$3,400,000 net of CAC. Therefore, the total estimated 2015 gross plant additions of \$81,914 qualify for inclusion in the rate base RAM calculation.

[1b] Decision and Order, p. 9, Docket No. 2011-0156. For Approval to Commit Funds in Excess of \$1,500,000 (including customer contributions) for Item P0001494, Pulehale T&E BOMVA, and Item P0001492, Pulehale T&E BOMVA, filed October 12, 2012.

[1c] See HECO-WP-D2-001

[1d] Letter from: D. Endo-Omota, Exhibit to Page 2 of 5, To: Commission; Re: Docket No. 2009-0042, DOT Underground Request/Kakaako Makai 25 kV Circuits; Revised Estimate of Cost Savings, dated June 12, 2009, as referenced for P0000672, of \$4,013,624. The PUC approved net project cost of \$1,170,090 for P0001579 was determined by taking the DOT Underground Request on Exhibit D, Page 2 of 5 of \$4,160,050 and reducing it by the amount of expected contributions as reported on Exhibit D, Page 1 of 5 of \$2,987,960 (In-kind CAC) and \$902,265 (Cash CAC). As the current estimate of total CAC is now \$3,847,195 (In-kind CAC plus \$345,690 net of HECO-WP-D2-001), the amount of gross plant additions qualifying for RB RAM is the sum of the PUC approved net project cost of \$1,170,090 + \$3,847,195 = \$5,017,285. See table below. The gross amount over the PUC approved in column G of \$795,245 was determined by taking the total gross plant addition of \$5,812,530, less the gross amount qualifying for RB RAM of \$5,017,285. Total grandparent cost approved in Decision and Order, p. 9, Docket No. 2009-0042. For Approval to Commit Funds in Excess of \$1,500,000 (including customer contributions) for Item P00038, DOT Underground Request, and Kakaako Makai-Niwai 25kV Circuits, and of a Waiver of Rule 13 of Hawaiian Electric's Tariff to Allow Hawaiian Electric to Pay for a Portion of the Underground Conversion Cost for Item P0001579, DOT Underground Request, filed August 7, 2009.

Current	Difference
P0001579 - DBO vs current estimate:	
Gross Plant Additions Qualifying for RB RAM	4,160,050
Less: CAC (Cash and In-kind)	(2,988,960)
PUC Approved Net Plant Additions	1,170,090

[1e] Decision and Order, p. 27, Docket No. 2008-0070. For Approval to Commit Funds in Excess of \$2,500,000 (including customer contributions) for Item Y00119, Kalo Substation, Kalo Transformers #1 and #2, and 46kV and 12kV Circuits, filed August 14, 2008. The revised cost estimate incorporating the transfer of land from the University of Hawaii West Oahu as a contribution was submitted with interim accounting report dated March 27, 2014 and has changed to \$12,056,427 net of CAC. The maximum amount of gross plant additions qualifying for RB RAM is the sum of the PUC approved net project cost of \$1,170,090 and in-kind CAC of \$3,847,195. Total grandparent cost approved in Decision and Order, p. 9, Docket No. 2009-0042. For Approval to Commit Funds in Excess of \$1,500,000 (including customer contributions) for Item P00038, DOT Underground Request, and Kakaako Makai-Niwai 25kV Circuits, and of a Waiver of Rule 13 of Hawaiian Electric's Tariff to Allow Hawaiian Electric to Pay for a Portion of the Underground Conversion Cost for Item P0001579, DOT Underground Request, filed August 7, 2009.

[1f] Amount represents PUC approved amount for grandparent project, Y000100, EOTF Phase 2. See HECO-WP-D2-001.

[1g] The Over/(Under) PUC Approved amount, in column G of \$198,764 was determined by taking the total gross plant addition of \$7,194,346, less the gross amount qualifying for RB RAM of \$6,995,582. Therefore, of the total estimated 2015 gross plant additions of \$1,098,559, the amount qualifying for inclusion in the rate base RAM calculation is \$899,795.

[2] Source: HECO Schedule G1 and G2.

[3] Source: HECO-WP-D2-001

[4] Source: UPPanner Budget Files, Forecast as of February 23, 2015.

HAWAIIAN ELECTRIC CO., INC.				
DEFERRED INCOME TAXES				
2014				
DR / (CR)		DR / (CR)	DR / (CR)	DR / (CR)
		FEDERAL	STATE	TOTAL
LIAB	DESCRIPTION	DEF TAX	DEF TAX	DEF TAX
28311	Unearned Lease	641.68	39.36	681.04
28312	Accrued Vacation	(241,166.60)	(50,270.01)	(291,436.61)
28313	Uncollectible Acct	1,169,327.83	213,817.88	1,383,145.71
28314	Directors Def Comp	16,705.87	2,152.77	18,858.65
28317	Discounted Work Comp	879,853.96	161,139.95	1,040,993.91
28319	Cap to Construct (Cost of Removal)	(72,883,858.58)	(13,337,122.26)	(86,220,980.84)
28321	Pension	(6,385,296.46)	(1,167,603.82)	(7,552,900.28)
28323	Excess Benefit Plan	785,177.83	139,047.66	924,225.49
28326	Def Exec Comp (Def EICP<IP)	67,987.13	12,433.00	80,420.12
28327	Software (no APPRISE & e business)	42,734.54	39,919.50	82,654.04
28328	G/L ACRS Retirements	(18,292,220.78)	(3,625,100.93)	(21,917,321.71)
28330	EICP	550,958.28	84,575.88	635,534.15
28331	CIAC	28,983,832.55	7,525,459.83	36,509,292.38
28332	Customer Advances	984,245.86	179,313.10	1,163,558.97
28333	Capitalized Interest	13,631,506.50	3,327,582.32	16,959,088.82
28335	Connection Fees	(16,019.85)	(8,444.14)	(24,463.99)
28336	Nondeductible Interest	34,805.94	6,364.12	41,170.06
28337	Supplmt Benefits - SERP	575,054.47	94,868.34	669,922.81
28340	LTIP	589,153.39	107,730.69	696,884.08
28341	Waipahu Baseyard Int	111,861.55	20,452.91	132,314.46
28347	Waiau Water Well Pmts	218,155.66	39,907.18	258,062.84
28350	Outage Loss Adj Exp	(0.00)	(24,509.00)	(24,509.00)
28401	Genl/Auto (& Accidents)	959,669.75	175,482.06	1,135,151.81
28403	CWIP Debt Transition	(337,885.81)	(61,787.11)	(399,672.92)
28404	CWIP Equity Trans	(1,024,424.60)	(187,324.22)	(1,211,748.82)
28405	Iolani Ct Plaza Sale	21,532.96	(5,494.62)	16,038.34
28406	Kaonohi Sale	(37,751.68)	(6,942.61)	(44,694.29)
28407	FAS 109 Flow Through	(545,177.08)	(99,645.89)	(644,822.97)
28408	Plant Transition	(10,453,122.82)	(1,911,462.13)	(12,364,584.95)
28409	CWIP Equity Net	(27,520,754.56)	(5,032,346.88)	(32,553,101.44)
28410	CWIP Equity Grossup	(17,527,691.44)	(3,205,050.15)	(20,732,741.59)
28411	CWIP Debt	(12,860,439.86)	(2,355,155.11)	(15,215,594.96)
28412	Genl/Auto Liability - Legal	73,980.49	11,098.93	85,079.43
28413	Post Retirement Ben	(257,991.81)	(27,210.39)	(285,202.20)
28414	Reg Liab Federal ITC	446,748.93	82,529.49	529,278.42
28418	IRP Costs	(34,073.44)	(5,202.96)	(39,276.40)
28419	Reg Liab Excess 283	302,044.47	55,871.10	357,915.57
28422	Miscellaneous	28,511.61	(16,969.99)	11,541.63
28427	Prepaid Expenses	(968,027.43)	(177,009.62)	(1,145,037.05)
28430	FMB X Premium	(42,008.21)	(7,682.83)	(49,691.04)
28432	Coal Gasif Costs	-	(11,273.00)	(11,273.00)
28434	EEO Claims	5,281.28	965.74	6,247.02
28435	Rev Bond Differential	(423,657.55)	(77,468.34)	(501,125.90)
28436	TIP/Rewards Programs	111,600.41	20,666.98	132,267.39
28437	HACOA	-	(1,533.00)	(1,533.00)
28438	BONY Rev	-	(148.00)	(148.00)
28439	GAQS Tel	-	(255.00)	(255.00)
28440	Kalaeloa	48,842.97	(39,979.83)	8,863.14
28441	Suh Power	-	(0.00)	(0.00)
28442	Overhaul (Waiau 3 Turbine)	28,391.44	5,192.12	33,583.56
28512	Revenue Bond Cost Amort.	(1,738,745.53)	(317,941.19)	(2,056,686.72)
28514	Software (APPRISE only)	-	(50,607.54)	(50,607.54)
28516	Honolulu Harbor Reserve	231,722.40	70,429.68	302,152.08
28520	Deferred Comp - restricted stock	222,857.85	40,750.66	263,608.51
28526	Emissions Fees	481,269.44	88,003.68	569,273.12
28530	AES Hawaii PPA	38,578.91	7,054.62	45,633.53
28532	CIS Project	(1,671,312.89)	(290,905.15)	(1,962,218.04)
28538	Rate Case Costs	(375,224.31)	(68,612.82)	(443,837.13)
28540	Kalaeloa PPA	11,916.18	2,178.69	14,094.87
28542	QUIPS amortization	(337,393.90)	(61,695.24)	(399,089.14)
28544	OPEB Exec Life	4,029,332.63	736,860.33	4,766,192.96
28546	Percentage Repairs Allowance	(4,319,710.99)	(956,673.70)	(5,276,384.69)
28548	Cap interest (D&T)	(4,447,826.05)	(1,077,797.77)	(5,525,623.82)
28550	E-Business hardware	(32,884.47)	(8,206.93)	(41,091.40)
28552	OMS project costs	148,321.94	28,421.79	176,743.73
28558	Substation Land - Aiea	(0.00)	(2,073.65)	(2,073.65)
28560	Solar tax credit	1,050.66	192.12	1,242.78
28564	HR Suites project costs	(992,987.84)	(183,823.39)	(1,176,811.23)
28568	Solar Saver Program	252,002.35	46,080.18	298,082.53
28570	Pension Tracker	(16,130,983.96)	(2,949,647.61)	(19,080,631.57)
28572	OPEB Tracker	1,708,536.46	312,416.61	2,020,953.07
28580	Blue Earth reserve	(1,961.18)	(358.58)	(2,319.76)
28584	RO Water Pipeline	206,629.55	37,783.55	244,413.10
28586	Big Wind costs	(222,033.85)	(40,599.75)	(262,633.60)

HAWAIIAN ELECTRIC CO., INC.				
DEFERRED INCOME TAXES				
2014				
DR / (CR)		DR / (CR)	DR / (CR)	DR / (CR)
LIAB	DESCRIPTION	FEDERAL DEF TAX	STATE DEF TAX	TOTAL DEF TAX
28590	Repairs Adjustment	(39,249,527.41)	(12,615,446.01)	(51,864,973.42)
28592	Stimulus Funds	(54,529.93)	(9,971.18)	(64,501.11)
28594	Budget System Replacement	(410,043.36)	(73,515.64)	(483,559.00)
28596	EOTP interest / amort	(289,776.95)	(52,988.08)	(342,765.03)
28598	CIP interest	(1,026,847.36)	(187,765.72)	(1,214,613.08)
28600	ERP project costs	529,853.95	96,887.22	626,741.17
28602	Reg Liab Federal PV	209,129.49	38,240.43	247,369.92
28604	IVR project costs	382,197.76	118,980.73	501,178.49
28606	NOL	40,379,669.00	-	40,379,669.00
28608	Franchise Tax	2,508,672.03	458,727.90	2,967,399.93
28612	CIS interest	147,670.25	27,002.82	174,673.07
28614	RBA revenues	(19,008,200.96)	(3,475,785.33)	(22,483,986.29)
28616	RAM revenues	(3,674,156.25)	(671,845.71)	(4,346,001.96)
28618	NOL - charitable	269,070.55	-	269,070.55
AOCINQ	AOCI - NQ Pension	940,813.53	172,030.31	1,112,843.84
AOCIOPEB	AOCI - OPEB Exec Life	(838,359.32)	(153,302.19)	(991,661.51)
50000	Rounding	(105.42)	(252.33)	(357.75)
FED ACCOUNT 283, excluding state ITC		(161,306,258.21)	(40,104,155.12)	(201,410,413.34)
28310	State ITC	16,049,668.95	2,918,013.39	18,967,682.34
TOTAL ACCOUNT 283		(145,256,589.26)	(37,186,141.73)	(182,442,731.00)
28210000	Accelerated Depreciation	(216,509,409.01)	(9,706,669.49)	(226,216,078.50)
28210100	Accel. Depr. - Excess	(0.00)	(0.00)	(0.00)
28210200	Accel. Depr. - Deficit	(442,109.96)	(80,428.23)	(522,538.19)
TOTAL ACCOUNT 282		(216,951,518.97)	(9,787,097.72)	(226,738,616.69)
TOTAL DEF INCOME TAX - UTILITY - per GL		(362,208,108.23)	(46,973,239.45)	(409,181,347.69)
RATE BASE CALCULATION				
Exclusions:				
28312	Accrued Vacation	(241,166.60)	(50,270.01)	(291,436.61)
28313	Uncollectible Acct	1,169,327.83	213,817.88	1,383,145.71
28314	Directors Def Comp	16,705.87	2,152.77	18,858.65
28317	Discounted Work Comp	879,853.96	161,139.95	1,040,993.91
28323	Excess Benefit Plan	785,177.83	139,047.66	924,225.49
28326	Def Exec Comp (Def EICP<IP)	67,987.13	12,433.00	80,420.12
28330	EICP	550,958.28	84,575.86	635,534.15
28336	Nondeductible Interest	34,805.94	6,364.12	41,170.06
28337	Supplemt Benefits - SERP	575,054.47	94,868.34	669,922.81
28340	LTIP	589,153.39	107,730.69	696,884.08
28341	Waipahu Baseyard Int	111,861.55	20,452.91	132,314.46
28347	Waiau Water Well Pmts	218,155.66	39,907.18	258,062.84
28401	Genl/Auto (& Accidents)	959,669.75	175,482.06	1,135,151.81
28412	Genl/Auto Liability - Legal	73,980.49	11,098.93	85,079.43
28418	IRP Costs	(34,073.44)	(5,202.96)	(39,276.40)
28434	EEO Claims	5,281.28	965.74	6,247.02
28436	TIP/Rewards Programs	111,600.41	20,666.98	132,267.39
28516	Honolulu Harbor Reserve	231,722.40	70,429.68	302,152.08
28520	Deferred Comp - restricted stock	222,857.85	40,750.66	263,608.51
28536	Rate Case Costs	(375,224.31)	(68,612.82)	(443,837.13)
28544	OPEB Exec Life	4,029,332.63	736,860.33	4,766,192.96
28550	E-Business hardware	(32,884.47)	(6,206.93)	(41,091.40)
28580	Blue Earth reserve	(1,961.18)	(358.58)	(2,319.76)
28586	Big Wind costs	(222,033.85)	(40,599.75)	(262,633.60)
28600	ERP project costs	529,853.95	96,887.22	626,741.17
28604	IVR project costs	382,197.76	118,980.73	501,178.49
28606	NOL	40,379,669.00	-	40,379,669.00
28608	Franchise Tax	2,508,672.03	458,727.90	2,967,399.93
28614	RBA revenues	(19,008,200.96)	(3,475,785.33)	(22,483,986.29)
28616	RAM revenues	(3,674,156.25)	(671,845.71)	(4,346,001.96)
28618	NOL - charitable	269,070.55	-	269,070.55
AOCINQ	AOCI - NQ Pension	940,813.53	172,030.31	1,112,843.84
AOCIOPEB	AOCI - OPEB Exec Life	(838,359.32)	(153,302.19)	(991,661.51)
48000	FIN 48 tax	-	-	-
48002	FIN 48 interest	(0.00)	0.00	(0.00)
	Adjustment for EOTP, CIS and CIP*	(658,622.70)	(120,432.88)	(779,055.58)
Total Exclusions		30,557,080.47	(1,833,755.26)	28,723,325.21

HAWAIIAN ELECTRIC CO., INC.				
DEFERRED INCOME TAXES				
2014				
		DR / (CR)	DR / (CR)	DR / (CR)
DR / (CR)		FEDERAL	STATE	TOTAL
LIAB	DESCRIPTION	DEF TAX	DEF TAX	DEF TAX
	Total 283 Deferred Taxes for Rate Base	(175,813,669.73)	(35,352,386.48)	(211,166,056.21)
	Total 282 Deferred Taxes for Rate Base	(216,951,518.97)	(9,787,097.72)	(226,738,616.69)
	TOTAL DEF INCOME TAX - RATE BASE	(392,765,188.70)	(45,139,484.20)	(437,904,672.90)
* Adjustment for EOTP, CIS and CIP relate to deferred taxes associated with the additional debt accrued for financial purposes.				
Per the Consumer Advocate's 2013 Transmittal No. 13-01, page 12, the Consumer Advocate proposed removal of the DTA on the NOL carryforward. Hawaiian Electric agreed to an adjustment to increase ADIT in consideration of the need for a quick resolution of the 2013 decoupling proceeding and the precedential nature of this ADIT item. For the current decoupling proceeding, Hawaiian Electric has excluded this item in arriving at Total Deferred Income Taxes. Again, the adjustment is a general concession to the ADIT balance and Hawaiian Electric does not concede to the Consumer Advocate's position.				

**HAWAIIAN ELECTRIC CO., INC.
EXCESS TAX DEPRECIATION
W8 BOILER**

Project No.	DIS	Description	Total Basis	Less PLIC Approved Amt	Disallowed Costs	Plant Acct	Life	Bonus	2011	2012	2013	2014
FEDERAL												
P7650000	8/23/2011	W8 Boiler Controls Upgrade	6,165,261	5,236,138	929,123	Steam	20	50	481,983	33,537	31,019	28,696
	v2012	W8 Boiler Controls Upgrade	118,460		118,460	Steam	20	50		61,451	4,276	3,955
	v2013	W8 Boiler Controls Upgrade	45,384		45,384	Steam	20	50			23,543	1,638
	v2014	W8 Boiler Controls Upgrade	(18,503)		(18,503)	Steam	20	50				(9,598)
		Total	6,310,602	5,236,138	1,074,464				481,983	94,988	58,838	24,691
		Cumulative							481,983	576,971	635,809	660,500
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HAWAII												
P7650000	8/23/2011	W8 Boiler Controls Upgrade	6,165,261	5,236,138	929,123	Steam	20	0	34,842	67,073	62,038	57,392
	v2012	W8 Boiler Controls Upgrade	118,460	-	118,460	Steam	20	0		4,442	8,552	7,910
	v2013	W8 Boiler Controls Upgrade	45,384	-	45,384	Steam	20	0			1,702	3,276
	v2014	W8 Boiler Controls Upgrade	(18,503)	-	(18,503)	Steam	20	0				(694)
		Total	6,310,602	5,236,138	1,074,464				34,842	71,515	72,292	67,884
		Cumulative							34,842	106,357	178,649	246,533
HECO-WP-D4-002 page 1												

**HAWAIIAN ELECTRIC CO., INC.
EXCESS TAX DEPRECIATION
W7 CONTROLS UPGRADE**

Project No.	DIS	Description	Total Basis	Less PUC Approved Amt	Disallowed Costs	Plant Acct Life	Bonus	2011	2012	2013	2014	
FEDERAL												
P7590000	11/2/2011	W7 Controls Upgrade	5,009,888	5,021,440	(11,552)	Steam	20	50	(5,993)	(417)	(386)	(357)
	v2012	W7 Controls Upgrade	119,081		119,081	Steam	20	50		61,773	4,298	3,976
	v2013	W7 Controls Upgrade	308,336		308,336	Steam	20	50			159,949	11,129
	v2014	W7 Controls Upgrade	8,237		8,237	Steam	20	50				4,273
		Total	5,445,542	5,021,440	424,102				(5,993)	61,356	163,861	19,021
		Cumulative							(5,993)	55,363	219,224	238,245
HECO-WP-D4-002 page 1												
HAWAII												
P7590000	11/2/2011	W7 Controls Upgrade	5,009,888	5,021,440	(11,552)	Steam	20	0	(433)	(834)	(771)	(714)
	v2012	W7 Controls Upgrade	119,081	-	119,081	Steam	20	0		4,466	8,596	7,951
	v2013	W7 Controls Upgrade	308,336	-	308,336	Steam	20	0			11,563	22,259
	v2014	W7 Controls Upgrade	8,237	-	8,237	Steam	20	0				309
		Total	5,445,542	5,021,440	424,102				(433)	3,632	19,388	29,805
		Cumulative							(433)	3,199	22,587	52,392
HECO-WP-D4-002 page 1												

**HAWAIIAN ELECTRIC CO., INC.
EXCESS TAX DEPRECIATION
W8 MAIN**

Project No.	DIS	Description	Total Basis	Less PUC Approved Amt	Disallowed Costs	Plant Acct Life	Bonus	2011	2012	2013	2014
FEDERAL											
P0001399	8/-/11	W8 Main Transformer Replace	2,627,959	2,357,425	270,534	Steam	20	140,340	9,765	9,032	8,355
	v2012	W8 Main Transformer Replace	19,800		19,800	Steam	20		10,271	715	661
	v2013	W8 Main Transformer Replace	(47,320)		(47,320)	Steam	20			(24,547)	(1,708)
		Total	<u>2,600,439</u>	<u>2,357,425</u>	<u>243,014</u>			<u>140,340</u>	<u>20,036</u>	<u>(14,800)</u>	<u>7,308</u>
		Cumulative						<u>140,340</u>	<u>160,376</u>	<u>145,576</u>	<u>152,884</u>
HECO-WP-D4-002 page 1											
HAWAII											
P0001399	8/-/11	W8 Main Transformer Replace	2,627,959	2,357,425	270,534	Steam	20	10,145	19,530	18,064	16,711
	v2012	W8 Main Transformer Replace	19,800	-	19,800	Steam	20		743	1,429	1,322
	v2013	W8 Main Transformer Replace	(47,320)	-	(47,320)	Steam	20			(1,775)	(3,416)
		Total	<u>2,600,439</u>	<u>2,357,425</u>	<u>243,014</u>			<u>10,145</u>	<u>20,273</u>	<u>17,718</u>	<u>14,617</u>
		Cumulative						<u>10,145</u>	<u>30,418</u>	<u>48,136</u>	<u>62,753</u>
HECO-WP-D4-002 page 1											

**HAWAIIAN ELECTRIC CO., INC.
EXCESS TAX DEPRECIATION
KAHUKU WIND**

Project No.	DJS	Description	Total Basis	Less PUC Approved Amt	Disallowed Costs	Plant Acct Life	Bonus	2011	2012	2013	2014
FEDERAL											
Y00138	12/-/10	Kahuku Wind Power Interconnect	2,225,842	2,125,651	100,191	Various	20	51,974	3,616	3,345	3,094
	v2012	Kahuku Wind Power Interconnect	(93,030)		(93,030)	Various	20	50	(48,259)	(3,358)	(3,106)
		Total	<u>2,132,812</u>	<u>2,125,651</u>	<u>7,161</u>			<u>51,974</u>	<u>(44,643)</u>	<u>(13)</u>	<u>(12)</u>
		Cumulative						<u>51,974</u>	<u>7,331</u>	<u>7,318</u>	<u>7,306</u>
HECO-WP-D4-002 page 1											
HAWAII											
Y00138	12/-/10	Kahuku Wind Power Interconnect	2,225,842	2,125,651	100,191	Various	20	3,757	7,233	6,690	6,189
	v2012	Kahuku Wind Power Interconnect	(93,030)	-	(93,030)	Various	20	0	(3,489)	(6,716)	(6,212)
		Total	<u>2,132,812</u>	<u>2,125,651</u>	<u>7,161</u>			<u>3,757</u>	<u>3,744</u>	<u>(26)</u>	<u>(23)</u>
		Cumulative						<u>3,757</u>	<u>7,501</u>	<u>7,475</u>	<u>7,452</u>
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**HAWAIIAN ELECTRIC CO., INC.
EXCESS TAX DEPRECIATION
KAKAAKO MAKAI-IWILEI 25KV DL**

Project No.	DIS	Description	Total Basis	Less PUC Approved Amt	Disallowed Costs	Plant Acct Life Bonus	2013	2014
FEDERAL								
P0000783	7/-/13 v2014	Kakaako Makai-Iwilei 25Kv DL	6,661,331	3,627,507	3,033,824	Distr	1,573,796	109,506
		Kakaako Makai-Iwilei 25Kv DL	485,650		485,650	Distr		251,931
		Total	<u>7,146,981</u>	<u>3,627,507</u>	<u>3,519,474</u>		<u>1,573,796</u>	<u>361,437</u>
		Cumulative					<u>1,573,796</u>	<u>1,935,233</u>
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HAWAII								
P0000783	7/-/13 v2014	Kakaako Makai-Iwilei 25Kv DL	6,661,331	3,627,507	3,033,824	Distr	113,768	219,012
		Kakaako Makai-Iwilei 25Kv DL	485,650		485,650	Distr		18,212
		Total	<u>7,146,981</u>	<u>3,627,507</u>	<u>3,519,474</u>		<u>113,768</u>	<u>237,224</u>
		Cumulative					<u>113,768</u>	<u>350,992</u>
HECO-WP-D4-002 page 1								

**HAWAIIAN ELECTRIC CO., INC.
EXCESS TAX DEPRECIATION
KAKAAKO MAKAI-KEWALO 25Kv DL**

Project No.	DIS	Description	Total Basis	Less PUC Approved Amt	Disallowed Costs	Plant Acct Life	Bonus	2014
FEDERAL								
P0000672	v2014	Kakaako Makai-Kewalo 25Kv DL	6,920,440	5,183,714	1,736,726	Distr	20 50	900,927
		Total	<u>6,920,440</u>	<u>5,183,714</u>	<u>1,736,726</u>			<u>900,927</u>
		Cumulative						<u>900,927</u>
								HECO-WP-D4-002 page 1
HAWAII								
P0000672	v2014	Kakaako Makai-Kewalo 25Kv DL	6,920,440	5,183,714	1,736,726	Distr	20 0	65,127
		Total	<u>6,920,440</u>	<u>5,183,714</u>	<u>1,736,726</u>			<u>65,127</u>
		Cumulative						<u>65,127</u>
								HECO-WP-D4-002 page 1

HAWAIIAN ELECTRIC CO., INC.
ADJUSTMENT TO RATE BASE FOR REG ASSET ON EOTP, CIP, CIS

	+ = addback - = deduct					DR / (CR)	DR / (CR)	DR / (CR)
	2011	2012	2013	2014	Cumulative	32.8947%	6.0150%	Total
	Add'l Debt	Add'l Debt	Add'l Debt	Add'l Debt	Add'l Debt	Def Fed	Def State	Def Tax
EOTP interest (7/11 - 3/12)	450,028	140,706			590,734	194,320	35,533	229,853
EOTP amort beg 4/12		(73,845)	(98,460)	(98,460)	(270,765)	(89,067)	(16,287)	(105,354)
Total EOTP	450,028	66,861	(98,460)	(98,460)	319,969	105,253	19,246	124,499
CIP interest (7/11 - 5/13)	415,582	726,147	320,463		1,462,192	480,984	87,951	568,935
CIP amort beg 6/13			(142,158)	(243,699)	(385,857)	(126,927)	(23,209)	(150,136)
Total CIP	415,582	726,147	178,305	(243,699)	1,076,335	354,057	64,742	418,799
CIS interest (5/12 - 5/13)		545,064	152,938		698,002	229,606	41,985	271,591
CIS amort beg 6/13			(33,931)	(58,167)	(92,098)	(30,295)	(5,540)	(35,835)
Total CIS	-	545,064	119,007	(58,167)	605,904	199,311	36,445	235,756
TOTAL	865,610	1,338,072	198,852	(400,326)	2,002,208	658,621	120,433	779,054

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The GL balance includes the AFUDC debt and the AFUDC additional debt.
The Rate base balance includes just the AFUDC debt.
The difference between GL and Rate base balance is the AFUDC additional debt.

HECO & SUBSIDIARIES
Deferred Tax Asset - NDL Carryforward

As Recorded Gross	a		b		c		d		e		f		g		h		i = sum (a-h)	j = i x 35%
	2010 Tax Ret Fed Taxable Inc (Loss)	2010 Amend/RAR Return Fed Taxable Inc (Loss)	2011 Tax Ret Fed Taxable Inc (Loss)	2011 Amend/RAR Return Fed Taxable Inc (Loss)	2012 Tax Ret Fed Taxable Inc (Loss)	2012 Amend/RAR Return Fed Taxable Inc (Loss)	2013 Tax Ret Fed Taxable Inc (Loss)	2013 Amend/RAR Return Fed Taxable Inc (Loss)	2014 Accrual Fed Taxable Inc (Loss)	2014 Tax Ret Fed Taxable Inc (Loss)	2014 Amend/RAR Return Fed Taxable Inc (Loss)	2014 Accrual Fed Taxable Inc (Loss)	Cumulative Carryforward	Deferred Tax Asset				
1 HECO, RHI, UBC	46,592,802	(2,452,466)	(63,882,338)	1,740,726	(32,023,885)	4,426,286	(43,298,675)	(41,846,624)					(130,743,974)	(45,760,391)				
2 HELCO	7,457,349	(202,927)	7,027,753	(9,920)	2,370,805		7,18,673	2,082,551					19,444,084	6,805,429				
3	54,050,151	(2,655,393)	(56,854,585)	1,730,806	(29,653,080)	4,426,286	(42,580,002)	(39,764,073)					(111,299,890)	(38,954,962) *				
4 MECO	5,388,129	9,472	(18,886,182)	(2,568)	(7,725,101)		(11,713,967)	215,844					(32,714,373)	(11,450,031)				
5	59,438,280	(2,645,921)	(75,740,767)	1,728,238	(37,378,181)	4,426,286	(54,293,969)	(39,548,229)					(144,014,263)	(50,404,993)				
Adjustments																		
6 HECO	(235,204)		7,753,875	18,294,269			9,007,741	8,023,413					42,844,094	14,995,433				
7 HELCO	(367,462)		1,131,558	4,157,335			1,813,095	1,682,769					8,427,295	2,949,553				
8	(602,666)		8,885,433	22,451,604			10,820,836	9,716,182					51,271,399	17,944,986				
9 MECO	(1,654,816)		942,477	3,485,656			1,802,724	987,459					5,573,500	1,950,725				
10	(2,257,462)		9,827,910	25,937,260			12,623,560	10,713,641					56,844,869	19,895,711				
As Adjusted																		
11 HECO	46,357,598	(2,452,466)	(56,128,463)	1,740,726	(13,729,416)	4,426,286	(34,290,934)	(33,823,211)					(87,899,880)	(30,764,958)				
12 HELCO	7,089,887	(202,927)	8,159,311	(9,920)	6,527,940		2,531,768	3,775,320					27,871,379	9,754,983				
13	53,447,485	(2,655,393)	(47,989,152)	1,730,806	(7,201,476)	4,426,286	(31,759,166)	(30,047,891)					(60,028,501)	(21,009,975)				
14 MECO	3,733,313	9,472	(17,943,705)	(2,568)	(4,239,445)		(9,911,243)	1,213,303					(27,140,873)	(9,499,306)				
15	57,180,798	(2,645,921)	(65,912,857)	1,728,238	(11,440,921)	4,426,286	(41,670,409)	(28,834,588)					(87,169,374)	(30,509,201)				

Reconciliation to HECO ADIT Balance:
 Net Operating Loss Deferred Tax Asset (38,954,962) (Line 3, Column j)
 Federal Tax Credit Carryforwards (1,424,707)
 HECO ADIT Balance Recorded (40,379,669) HECO WP-D4-001

* HECO records deferred tax asset based on combined HECO and HELCO income.

HAWAIIAN ELECTRIC CO., INC.
ADJUSTMENTS TO NOL FOR RATEMAKING

	Tax Return 2010	Tax Return 2011	Tax Return 2012	Tax Return 2013	Accrual 2014
Nonutility Taxable (Income)/Loss	1,231,495	654,234	74,612	2,291,512	2,237,304
RHI	7,631	4,985	2,029	1,897	345
UBC	12,182	13,962	875		
Charitable Contributions	884,073			768,773	720,479
CIS Project Costs	654,557	3,220,776	14,732,263	incl in non utility	
Executive Compensation	1,383,049	2,231,784	2,787,606	3,250,537	4,131,904
Interest - IRS Examination	(6,803,000)		228,382	55,366	237,443
IVR Project				1,096,481	577,151
Executive Life	693,692	792,616	124,923	587,748	489,073
Rewards Program	1,605,981	1,288,679	1,059,775	1,385,141	-
State Tax Adjustment	95,136	(453,161)	(716,196)	(429,714)	(370,286)
Total adjustments	(235,204)	7,753,875	18,294,269	9,007,741	8,023,413

NOTE: The adjustments to the tax NOL carryforward removes those tax deductions related to expenses that have not been previously approved by the Commission. These tax deductions are related to costs excluded from the revenue requirement calculation for ratemaking purposes. The starting point on page 1 is the NOL used for financial statement purposes, including executive benefits, bonuses, other nonutility deductions and the tax deductions related to write downs. Consequently, the adjustments represent the tax deductions included in the NOL or taxable income for the listed years.

Note that some ADIT items that are excluded from rate base (vacation accrual, reserves, bad debts) are not adjustments to the NOL carryforward calculation because the related expenses are ultimately recovered in revenue requirement, albeit on a cash basis. For tax purposes, these items are deducted on a cash basis, thus no adjustment is required.

**HAWAII ELECTRIC LIGHT CO., INC.
ADJUSTMENTS TO NOL FOR RATEMAKING**

	Tax Return 2010	Tax Return 2011	Tax Return 2012	Tax Return 2013	Accrual 2014
Nonutility Taxable (Income)/Loss	67,761	59,037	(100,544)	1,229,284	1,144,700
Charitable Contributions	67,399	38,376	24,475	19,171	18,000
CIS Project Costs	(29,738)	14,820	3,499,109	incl in non utility	
Executive Compensation	16,893	145,682	158,376	190,057	206,744
Electric Discount	147,573	2,232			
HMSA Premium Adjustment	147,154	132,400	22,245	7,415	-
Interest - IRS Examination	(1,817,000)		(121,351)	(180)	2,754
IVR Project				324,641	324,388
Executive Life	15,364				
Keahole Project Costs	760,980	760,982	762,272	incl in non utility	
Rewards Program	228,298	46,670	45,905	80,071	31,259
State Tax Adjustment	27,854	(68,641)	(133,152)	(37,364)	(35,076)
Total adjustments	(367,462)	1,131,558	4,157,335	1,813,095	1,692,769

NOTE: The adjustments to the tax NOL carryforward removes those tax deductions related to expenses that have not been previously approved by the Commission. These tax deductions are related to costs excluded from the revenue requirement calculation for ratemaking purposes. The starting point on page 1 is the NOL used for financial statement purposes, including executive benefits, bonuses, other nonutility deductions and the tax deductions related to write downs. Consequently, the adjustments represent the tax deductions included in the NOL or taxable income for the listed years.

Note that some ADIT items that are excluded from rate base (vacation accrual, reserves, bad debts) are not adjustments to the NOL carryforward calculation because the related expenses are ultimately recovered in revenue requirement, albeit on a cash basis. For tax purposes, these items are deducted on a cash basis, thus no adjustment is required.

**MAUI ELECTRIC CO., LTD.
ADJUSTMENTS TO NOL FOR RATEMAKING**

	Tax Return 2010	Tax Return 2011	Tax Return 2012	Tax Return 2013	Accrual 2014
Nonutility Taxable (Income)/Loss	(926,853)	171,847	9,708	397,892	678,484
Charitable Contributions	41,189		-	-	91,821
CIS Project Costs	(84,209)	169,241	3,142,682	included in nonutility	
Executive Compensation	48,625	235,724	159,377	140,226	140,983
Interest - IRS Examination	(993,000)		(14,313)	(551)	
IRP/DSM costs	-	85,857	78,629	891,975	31,560
IVR Project				229,275	77,703
Executive Life		172,136		-	
Rewards Plan	212,842	156,992	201,372	224,223	
State Tax Adjustment	46,590	(49,320)	(91,799)	(80,316)	(23,092)
Total adjustments	(1,654,816)	942,477	3,485,656	1,802,724	997,459
	Note (3)	Note (3)	Note (3)		

NOTES:

- (1) The adjustments to the tax NOL carryforward removes those tax deductions related to expenses that have not been previously approved by the Commission. These tax deductions are related to costs excluded from the revenue requirement calculation for ratemaking purposes. The starting point on page 1 is the NOL used for financial statement purposes, including executive benefits, bonuses, other nonutility deductions and the tax deductions related to write downs. Consequently, the adjustments represent the tax deductions included in the NOL or taxable income for the listed years.
- (2) Note that some ADIT items that are excluded from rate base (vacation accrual, reserves, bad debts) are not adjustments to the NOL carryforward calculation because the related expenses are ultimately recovered in revenue requirement, albeit on a cash basis. For tax purposes, these items are deducted on a cash basis, thus no adjustment is required.
- (3) Total adjustments for Tax Return years 2010, 2011 and 2012 differ from the 2014 Annual Decoupling filing due primarily to executive compensation adjustments. The adjustments relate to additional executive compensation that should have been included as an adjustment for these years. This has no impact on revenue requirements since the deferred tax asset related to the NOL is excluded for decoupling purposes.

Hawaiian Electric Company, Inc.
2014 Major Projects Excess Cost

Grandparent # or Project #	[1]	[2]	[3]	(A) [1]	(B) [1]	(C) Docket No 2010-0053 Depr Rate	(D) = (A) * (C)	(E) = (B) * (C)	(F) [1]	(G) = (A) - (F)	(H) = (B) - (F)	(I) = (G) / (A) * (D)	(J) = (H) / (B) * (E)
Project	DIS	Plant Acct	Net Plant Adds Thru 12/31/13	Net Plant Adds Thru 12/31/14	2014 Depr	2015 Depr	2014 Cost in Excess of Docket	2013 Cost in Excess of Docket	2014 Cost in Excess of Docket	Prior Years Depr Related to Excess	2014 Depr Related to Excess	2015 Depr Related to Excess	
P7550000	W8 Boiler Controls Upgrade	2011/08	6,329,105	6,310,602	312	0.02030	128,481	128,105	5,236,138	1,092,967	1,074,464	40,127	21,812
P0001999	W8 Main Transformer Replace	2011/08	2,600,439	2,600,439	315	0.02430	63,191	63,191	2,357,425	243,014	243,014	13,629	5,905
Y00138	Kahuiku Wind Power	2010/12	2,132,812	2,132,812	397	0.06670 [2]	338,940 [2]	338,940 [2]	2,125,651	7,161	7,161	5,639	478 [2]
P7590000	W7 Controls Upgrade	2011/11	5,437,305	5,445,542	312	0.02030	110,377	110,545	5,021,440	415,865	424,102	2,183	8,609
Y00038	Kahaako Makai-Iwila 25KV DL	2013/07	6,197,599	6,666,629	367	0.04980	308,640	331,998	3,383,701	2,813,898	3,282,928	-	163,490
			483,732	480,352	368	0.05200	24,114	24,978	243,806	219,926	236,546	-	12,300
			6,681,331	7,146,981			332,754	356,976	3,627,507	3,033,824	3,519,474	-	175,790
Y00038	Kahaako Makai-Kewalo 25KV DL	2014/04	-	4,958,840	367	0.04980	-	246,950	4,013,624	-	945,216	-	47,072
	Kahaako Makai DOT Queen-Cook	2014/04	-	93,649	364	0.03390	-	3,175	55,861	-	37,788	-	1,281
			-	67,769	365	0.04190	-	2,840	40,424	-	27,545	-	1,146
			-	26,632	366	0.02190	-	583	15,886	-	10,746	-	235
			-	1,524,994	367	0.04980	-	75,945	909,656	-	615,338	-	30,644
			-	248,556	368	0.05200	-	12,925	148,263	-	100,293	-	5,215
			-	6,920,440			-	342,417	5,183,714	-	1,736,726	-	85,593

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

[2] 2014 & 2015 Depr were estimated using proportion of Net Plant Adds Thru 12/31/13 to Net Plant Adds Thru 12/31/12 applied to 2012 Depr, 2015 Depr Related to Excess calculated using (C) Docket No 2010-0053 Depr Rate * (H) 2014 Cost in Excess of Docket.

[3] Source: Transmittal No. 14-03 (Decoupling) - RBA Rate Adjustment (Filed March 31, 2014), HECO-WP-E-001, sum of "Prior Year 2012 Depr Related to Excess" and "2013 Depr Related to Excess."

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

Composite Federal and State Effective Income Tax Rate

Federal Effective Income Tax Rate	32.8947368%	MECO-RWP-1501, p. 1 (Docket No. 2011-0092)
State Effective Income Tax Rate	6.0150376%	MECO-RWP-1501, p. 1 (Docket No. 2011-0092)
	<u>38.9097744%</u>	

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 = 6.4%
 Federal Statutory Income Tax Rate = 35%

Calculation of State Effective Income Tax Rate

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

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

$$ST = .064 - .064(ST)$$

$$1.064(ST) = .064$$

$$ST = .060150376 \text{ or } 6.0150376\% \text{ of Pre-Tax Income}$$

Calculation of Federal Effective Income Tax Rate

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

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

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

$$FT = .35 - .0210526316$$

$$FT = .328947368 \text{ or } 32.8947368\% \text{ of Pre-Tax Income}$$

HAWAIIAN ELECTRIC COMPANY, INC.
TAX REPAIRS ADJUSTMENT
2014

		A	B	C = A x B	D = A - C	
	HECO-WP- F1-002 5 YR LIFE AVERAGE	Plant Adds	HECO-WP- F1-001, pg 2 Repairs Allocation	Repairs Deduction	Depreciable Basis	
Computers/PV	5	5,534				
Communication	20	3,438				
Comp/Off/Furn/Tools	7	6,052				
Distribution	20	89,542	89,542,000	24.09%	21,566,234	67,975,766
Land	-	1,446				
Non-Steam Production	15	2,495	2,495,000	0.00%	0	2,495,000
Steam Production	20	30,149	30,149,000	17.26%	5,202,292	24,946,708
Structural	39	3,132				
Transmission	20	16,893	16,893,000	3.84%	648,876	16,244,124
Transmission	15	28,263	28,263,000	3.84%	1,085,608	27,177,392
Vehicles	-	7,548				
TOTAL		<u>194,492</u>	<u>167,342,000</u>		<u>28,503,010</u>	<u>138,838,990</u>

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 %:	Note 1				
Total book basis repairs					
2010		12,083,904	-	537,281	1,397,088
2011		22,408,659	-	5,154,632	2,763,643
2012		28,124,175	-	8,997,268	2,354,859
2013		26,024,478		9,804,321	3,034,166
2014		28,787,365		7,814,236	1,735,027
		117,428,581	0	32,307,738	11,284,783
Total book basis adds					
2010	HECO-WP-F1-002	51,409,000	5,082,000	27,087,000	71,280,000
2011	HECO-WP-F1-002	80,297,000	3,048,000	43,732,000	17,624,000
2012	HECO-WP-F1-002	101,864,000	773,000	53,661,000	65,710,000
2013	HECO-WP-F1-002	114,622,000	101,000	32,635,000	81,220,000
2014	HECO-WP-F1-002	139,366,000	12,311,000	30,119,000	57,957,000
		487,558,000	21,315,000	187,234,000	293,791,000
AVERAGE %		24.085049%	0.000000%	17.255273%	3.841092%

NOTE 1> With the assistance of Price Waterhouse Coopers, the repairs deduction analysis was performed in 2010 and 2012 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

	LIFE	2010 ACTUAL			2011 ACTUAL			2012 ACTUAL		
		PROJECTS	PROGRAMS	TOTAL	PROJECTS	PROGRAMS	TOTAL	PROJECTS	PROGRAMS	TOTAL
Computers/PV	5	172	1,738	1,910	1,021	3,601	4,622	1,426	5,120	6,546
Communication	20	2,581	1,441	4,022	2,126	1,232	3,358	7,175	806	7,981
Off/Furn/Tools	7	1,071	1,645	2,716	880	4,045	4,925	4,438	2,589	7,027
Distribution	20	14,241	37,168	51,409	35,689	44,608	80,297	43,704	58,160	101,864
Land	-	-	44	44	1,162	91	1,253	-	77	77
Non-Steam Production	15	5,082	-	5,082	3,048	-	3,048	773	-	773
Steam Production	20	22,719	4,368	27,087	43,426	306	43,732	47,762	5,899	53,661
Structural	39	231	20	251	1,595	758	2,353	3,265	182	3,447
Transmission	20	13,997	2,185	16,182	1,851	4,112	5,963	12,815	11,767	24,582
Transmission > 69kv	15	52,599	2,499	55,098	6,958	4,703	11,661	22,880	18,248	41,128
		<u>66,596</u>	<u>4,684</u>	<u>71,280</u>	<u>8,809</u>	<u>8,815</u>	<u>17,624</u>	<u>35,695</u>	<u>30,015</u>	<u>65,710</u>
Vehicles	-	-	6,253	6,253	-	8,413	8,413	-	8,892	8,892
TOTAL		<u>112,693</u>	<u>57,361</u>	<u>170,054</u>	<u>97,756</u>	<u>71,869</u>	<u>169,625</u>	<u>144,238</u>	<u>111,740</u>	<u>255,978</u>

	LIFE	2013 ACTUAL			2014 ACTUAL			LESS MAJOR PROJECTS		
		PROJECTS	PROGRAMS	TOTAL	PROJECTS	PROGRAMS	TOTAL	PROJECTS	PROGRAMS	TOTAL
Computers/PV	5	1,559	6,350	7,909	-	6,681	6,681	-	-	-
Communication	20	4,708	1,661	6,369	3,516	1,824	5,340	(9,882)	-	(9,882)
Off/Furn/Tools	7	1,751	5,599	7,350	4,590	3,652	8,242	-	-	-
Distribution	20	25,611	89,011	114,622	33,784	105,582	139,366	(39,848)	-	(39,848)
Land	-	6,320	82	6,402	1,274	455	1,729	(2,276)	-	(2,276)
Non-Steam Production	15	101	-	101	12,311	-	12,311	(8,839)	-	(8,839)
Steam Production	20	29,864	2,771	32,635	27,547	2,572	30,119	(36,487)	-	(36,487)
Structural	39	6,479	235	6,714	2,278	621	2,899	(1)	-	(1)
Transmission	20	12,962	11,484	24,446	1,491	11,804	13,295	-	-	-
Transmission > 69kv	15	43,386	13,388	56,774	36,204	8,458	44,662	(68,007)	-	(68,007)
		<u>56,348</u>	<u>24,872</u>	<u>81,220</u>	<u>37,695</u>	<u>20,262</u>	<u>57,957</u>	<u>(68,007)</u>	<u>-</u>	<u>(68,007)</u>
Vehicles	-	-	9,498	9,498	-	4,682	4,682	-	-	-
TOTAL		<u>132,741</u>	<u>140,079</u>	<u>272,820</u>	<u>122,995</u>	<u>146,331</u>	<u>269,326</u>	<u>(165,340)</u>	<u>-</u>	<u>(165,340)</u>

	LIFE	TOTAL (2010 - 2014)			AVERAGE (2010 - 2014)			AVERAGE (2010 - 2014)		
		PROJECTS	PROGRAMS	TOTAL	PROJECTS	PROGRAMS	TOTAL	PROJECTS	PROGRAMS	TOTAL
Computers/PV	5	4,178	23,490	27,668	836	4,698	5,534	0.43%	2.42%	2.85%
Communication	20	10,224	6,964	17,188	2,045	1,393	3,438	1.05%	0.72%	1.77%
Off/Furn/Tools	7	12,730	17,530	30,260	2,546	3,506	6,052	1.31%	1.80%	3.11%
Distribution	20	113,181	334,529	447,710	22,636	66,906	89,542	11.64%	34.40%	46.04%
Land	-	6,480	749	7,229	1,296	150	1,446	0.67%	0.08%	0.74%
Non-Steam Production	15	12,476	-	12,476	2,495	-	2,495	1.28%	0.00%	1.28%
Steam Production	20	134,831	15,916	150,747	26,966	3,183	30,149	13.86%	1.64%	15.50%
Structural	39	13,847	1,816	15,663	2,769	363	3,132	1.42%	0.19%	1.61%
Transmission	20	43,116	41,352	84,468	8,623	8,270	16,893	4.43%	4.25%	8.69%
Transmission > 69kv	15	94,020	47,296	141,316	18,804	9,459	28,263	9.67%	4.86%	14.53%
		<u>137,136</u>	<u>88,648</u>	<u>225,784</u>	<u>27,427</u>	<u>17,729</u>	<u>45,156</u>	<u>14.10%</u>	<u>9.12%</u>	<u>23.22%</u>
Vehicles	-	-	37,738	37,738	-	7,548	7,548	0.00%	3.88%	3.88%
TOTAL		<u>445,083</u>	<u>527,380</u>	<u>972,463</u>	<u>89,016</u>	<u>105,476</u>	<u>194,492</u>	<u>45.77%</u>	<u>54.23%</u>	<u>100.00%</u>

Hawaiian Electric Company, Inc.
2015 CIAC Additions - Major Projects Support

Grandparent	Project	Functional Category	Project > Plant Addition Date	Project to Date Recorded 12/31/14	2015 CIAC Additions	Future Years
Y00038	P0001579: Kakaako Makai DOT Queen-Cook	Distribution	201404	-	(3,847,195) N1	- N1
See Schedule G2 - Major Capital Project CIAC Additions					<u>(3,847,195)</u>	

N1 Source: UI Planner Budget Files - Forecast as of February 23, 2015.

HAWAIIAN ELECTRIC COMPANY, INC.
AVERAGE RATE BASE
2014
(\$ THOUSANDS)

	<u>12/31/2014</u>	<u>12/31/2013</u>	<u>Average</u>
<u>Investments in Assets Serving Customers</u>			
Net Cost of Plant in Service	2,293,115	2,104,400	2,198,758
Property Held for Future Use	-	-	-
Fuel Inventory	74,515	99,613	87,064
Materials & Supplies Inventories	28,237	31,925	30,081
Unamortized Net SFAS 109 Regulatory Asset	67,153	65,455	66,304
Unamortized System Development Costs	6,752	7,854	7,303
Unamortized Deferred CIS	12,705	13,925	13,315
Unamortized EOTP Regulatory Asset	1,153	1,508	1,331
Unamortized CIP-CT1 Regulatory Asset	4,215	5,169	4,692
RO Water Pipeline Regulatory Asset	5,191	5,308	5,250
Contributions in Excess of NPPC Regulatory Asset	19,411	19,411	19,411
Working Cash	24,459	26,545	25,502
Total Investment in Assets	<u>2,536,906</u>	<u>2,381,114</u>	<u>2,459,010</u>
<u>Funds from Non-Investors</u>			
Unamortized CIAC	283,740	258,084	270,912
Customer Advances	2,300	2,408	2,354
Customer Deposits	14,603	13,339	13,971
Accumulated Deferred Income Taxes	437,905	376,180	407,043
Unamortized Investment Tax Credit	49,034	44,055	46,545
Unamortized Gain on Sales	59	149	104
Pension Regulatory Liability	(49,039)	(37,532)	(43,286)
OPEB Regulatory Liability	5,194	5,117	5,156
Total Deductions	<u>743,796</u>	<u>661,800</u>	<u>702,798</u>
Year-end Rate Base	1,793,110	1,719,314	
Average Rate Base			1,756,212

* Amounts may not add up due to rounding.

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

RATE BASE	REFERENCE	Month End		Simple Average
		Dec-14	Dec-13	
TOTAL UTILITY PLANT	Note 2	2,706,767	2,504,342	
Adjustments:				
Construction Work in Progress		(134,375)	(124,494)	
Retirement Work in Progress		(15,197)	(13,477)	
Asset Retirement Obligation		(28,954)	(42,649)	
Regulatory Liability for Cost of Removal		(227,390)	(211,551)	
Other	GL#25365000	(7,736)	(7,771)	
DEPRECIATED COST OF UTILITY PLANT IN SERVICE	Note 1	2,293,115	2,104,400	2,198,758
REGULATORY ASSETS - SFAS 109	Note 2	67,153	65,455	66,304
REG ASSET- CONTRIB vs. NPPC	GL#18676030	19,411	19,411	19,411
REGULATORY ASSET - PENSION NPPC vs. Rates	GL#18676040	52,359	43,062	47,711
REGULATORY ASSET - OPEB NPBC vs. Rates	GL#18677040	380	380	380
REGULATORY ASSET - RO PIPELINE	Note 2	5,191	5,308	5,250
MATERIALS & SUPPLIES (Excluding Stores Expense)	Note 2	30,863	35,036	32,950
MATERIALS & SUPPLIES ADJUSTMENT	HECO-WP-H-006	(2,626)	(3,111)	(2,869)
FUEL STOCK	Note 2	74,515	99,613	87,064
UNAMORTIZED DEFERRED OMS COSTS	GL#186070	2,159	2,630	2,395
UNAMORTIZED DEFERRED HR SUITE-PHASE 1	GL#186060	2,376	2,733	2,555
UNAMORTIZED DEFERRED HR SUITE-PHASE 2	GL#186061	896	1,024	960
UNAMORTIZED DEFERRED BUDGET SYSTEM PROJECT	GL#186077	1,321	1,467	1,394
UNAMORTIZED DEFERRED CIS COSTS	HECO-WP-D1-001B GL#18670124, #18670125,	12,705	13,925	13,315
UNAMORTIZED EOTP REGULATORY ASSET	#18670126	1,153	1,508	1,331
UNAMORTIZED CIP REGULATORY ASSET	HECO-WP-D1-001A	4,215	5,169	4,692
WORKING CASH:	HECO-WP-H-007	24,459	26,545	25,502
DEDUCTIONS:				
Unamortized Contributions in Aid of Construction	Note 2	283,740	258,084	270,912
Customer Advances for Construction	Note 2	2,300	2,408	2,354
Deferred Income Taxes	Schedule D4	437,905	376,180	407,043
Unamortized Investment Tax Cr - 1962 Revenue Act & STC	GL#255200, #255030	49,034	44,055	46,545
Rental Premiums - Kamoku	GL#25313000	0	0	0
Customer Deposits	GL#23501000	14,603	13,339	13,971
Unamortized Gain on Sales	GL#254001	59	149	104
Regulatory Liability Tracker True-up	GL#25400004	3,320	5,530	4,425
Regulatory Liability OPEB True-up	GL#25400002	5,574	5,497	5,536
TOTAL DEDUCTIONS		796,535	705,242	750,889
MONTH ENDED RATE BASE		1,793,110	1,719,314	1,756,212

Footnotes:

- 1 Includes Property Held for Future Use balance of \$0 for 2014 and 2013.
- 2 See Hawaiian Electric Company Inc. Monthly Financial Report - December 2014, page 8, 9 & 10, filed February 26, 2014.

* Amounts may not add up due to rounding.

HAWAIIAN ELECTRIC COMPANY, INC.
Ratemaking Adjustments For Incentive Compensation And Other Non-Recoverable Expenses
2014

<u>Account/Activity No.</u>	<u>Description</u>	<u>YTD</u>	<u>Net of Tax</u>	<u>Rounded 000s</u>
P8M723PHENENPZZZZZ150*	LTIP expense (credit)	(13,195)		
P8M723PHENENPZZZZZ150*	EICP expense (credit)	1,647,547		
P8M723PHENENPZZZZZ150*	Manager award plan (credit)	751,378		
P8M723PHENENPZZZZZ900	LTIP share expense (credit)	1,766,338		
Incentive awards excel worksheet	New merit award	914,155		
Restricted stock report	Other incentive awards	835,763		Incentive
Provided by HEI	HEI charges for incentive compensation	1,549,121	4,551,898	4,552
P#R0001202	Executive life insurance(COLI) expense (credit) <i>not tax deduct</i>	(406,573)		
93022 Schedule WO#AD000945	Company memberships (portion of EEI dues related to EEI's Government Affairs group, Communication, Marketing, Customer, and Employee Relations group)	70,964		
WO#IR000121	Ho'ola'a - service awards program	13,423		
WO#HR000034	HEIRS 401K	27,576		
WO#HR000035	HEIRS 401K-Fidelity Recordkeeping	0		
P#R0001091	Directors	7,965		
P#R0001087	Excess	355,108		
P#R0001088	SERP	127,775		
P#R0010240	OPEB (Executive life portion only)	583,736		
408040	Payroll taxes related to incentive compensation	99,753		Other
AUW excel spreadsheet	Community service adm - AUW (labor)	119,280		
AUW excel spreadsheet	Community service adm - AUW (non-labor)	103,700	543,061	543
	Total adjustment to operating income	8,553,814		
	Tax on adjustments	(3,458,854)		
	Net adjustment to operating income	5,094,959	5,094,959	5,095
	Labor	3,419,165		
	Non-labor	5,134,649		
	Total adjustment to operating income	8,553,814		

For HEIRS-Fidelity recordkeeping, applied the following percentage as disallowed (only fee for matched contribution allowed)
1-(117/1596*.7041) 94.84%

HAWAIIAN ELECTRIC COMPANY, INC.
Income Tax On Items To Be Replaced By Synchronized Interest
2014

	<u>Source</u>	<u>YTD</u>	<u>Rounded (000s)</u>	
Total Interest Charges	PUC report	45,115,587		
Less: Int on Customer Deposits	Account 43105000	(1,123,310)		
AFUDC-Debt	NARUC 420030	(2,305,679)		
Amort of Inv Inc Differential	NARUC 403030	184,971	185	⇒ Line 2C
Equity in net income of trust	NARUC 421070	<u>(100,516)</u>		
		41,771,053		
	Tax rate	<u>38.9097744%</u>		
		16,253	(16,253)	⇒ Line 2D

HAWAIIAN ELECTRIC COMPANY, INC.
Ratemaking Capitalization
2014

	Simple Average <u>Balance*</u>	<u>Ratios</u>	<u>Cost Rate</u>	<u>Weighted Cost of Debt</u>
Short-Term Debt	42,893	2.16%	0.63%	0.01%
Long-Term Debt	784,273	39.54%	5.29%	2.09%
Hybrid Securities	28,322	1.43%	7.27%	0.10%
Preferred Stock	20,972	1.06%	5.41%	0.06%
Common Equity	1,107,140	55.81%	10.00%	5.58%
	<u>1,983,600</u>	<u>100.00%</u>		<u>7.84%</u>

	<u>NARUC/ GL Code</u>	<u>YTD Dec 2014</u>	<u>Rounded (000s)</u>	<u>Cost Rate</u>
Short-Term Debt:				
430	430	2,051,604		
Less: Interest on QUIDS		(2,050,516)		
Int Exp-Commercial Paper	43100000	354,948		
Int Exp-SCF Loans	43108000	0		
Int Inc-Assoc Cos.	419300	<u>(85,714)</u>		
		270,322	270	0.63%
Long-Term Debt:				
Amort of Debt Disc & Exp	428	1,691,675		
Less: Hybrid Sec Amort of Iss Exp		(109,414)		
Interest on Long-Term Debt	427	39,756,599		
Amort Inv Inc Differential	403030	<u>184,971</u>		
		41,523,830	41,524	5.29%
Hybrid Securities:				
Interest on QUIDS	43006000	2,050,516		
Amort Exp-QUID1 Iss Exp	428QUID1	40,416		
Amort Exp-QUID2 Iss Exp	428QUID2	37,899		
Amort Exp-QUID3 Iss Exp	428QUID3	31,099		
Equity in Net Inc of Trust	421070	<u>(100,516)</u>		
		2,059,414	2,059	7.27%
Preferred Stock:				
Amort of Pfd Stk Iss Exp	42501000	55,086		
Preferred Stock dividends	437	<u>1,079,907</u>		
		1,134,993	1,135	5.41%

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

HAWAIIAN ELECTRIC COMPANY, INC.
Earning Sharing Credits Recorded (net of tax)
2014
Amounts in (\$000s)

Earnings Sharing Credits Recorded	0
Revenue Taxes @ 8.885%	<u>0</u>
	0
Income Taxes @38.9097744%	<u>0</u>
Reduction to operating income	0

HAWAIIAN ELECTRIC COMPANY, INC.
MATERIALS & SUPPLIES ADJUSTMENT
(\$ Thousands)

			<u>Dec-13</u>
Beg Balance at November 30, 2014	Note (1)		30,829
Additions	↓	a	2,497
Issues			(1,649)
Adjustments			(861)
Ending Balance at December 31, 2014			<u>30,816</u>
# of Days in December		b	31
Average Daily Additions to Inventory		c=a/b	80.55
Purchase Payment Lag Days	Note (2)	d	32.6
Estimated Unpaid Inventory at December 31, 2014		e=cxd	2,626

Footnotes:

- 1 Source: Hawaiian Electric Company Inc. Combined Inventory Report for December 2014.
- 2 See Hawaiian Electric Company Inc. Docket No. 2010-0080 Hawaiian Electric Company Inc.'s 2011 test year rate case, HECO-WP-2003, page 1 & 2.
- 3 Material & Inventory Adjustment represents materials & supplies financed by accounts payable and is calculated in compliance with the Commission's D&O 14412 dated December 1, 1995, in Docket No. 7766.

HAWAIIAN ELECTRIC COMPANY, INC.
WORKING CASH
2014

Line No.	Description (a)	Reference (b)	2014 (c)	Net Collection Lag (Days) (d) Note (1)	Amount (e)=(c)/365x(d)	
1	Fuel Oil	<i>Trial Balance: B20</i>	821,246	18.8	42,300	
2	Purchased Power	GL #555	537,821	(1.6)	(2,358)	
3	Current Income Taxes					
4	Income Tax	<i>Dec. 2014 PUC Monthly Report, Page 2</i>	(5,163)			
5	Income Tax related to Disallowed Items	HECO WP-H-002	3,459			
6	Reversal of Tax Related to Int Synch Replacement	<i>Sch H-Line 2d</i>	16,253			
7	Tax Eff of AFUDC Equity	GL #420100	(3,875)			
8	Tax Related to Int Synch	<i>Sch H-line 13 - 13a</i>	(15,035)			
9	Total	<i>Sum of Line 4-8</i>		(4,361)	(1.7)	20
10	Revenue Taxes					
11	Franchise	GL #408010	53,301			
12	PSC	GL #408020	127,721			
13	PUC Fee	GL #408030	10,851			
14	Total	<i>Sum of Line 11-13</i>	191,873	(52.5)	(27,598)	
15	O&M Labor					
16	O&M labor	<i>Acct. Dept. O&M report</i>	125,404			
17	Fuel O&M labor	<i>Acct. Dept. O&M report</i>	(1,507)			
18	O&M Labor Excl Fuel Labor	<i>Line 16 + 17</i>	123,896			
19	Disallow O&M	HECO WP-H-002	(3,419)			
20	Total	<i>Line 18 + 19</i>	120,477	25.2	8,318	
21	O&M Non-Labor					
22	O&M Expense	<i>Trial Balance: G30</i>	282,232			
23	O&M Labor Excl Fuel Labor	<i>(see O&M Labor Excl Fuel Labor above)</i>	(123,896)			
24	Disallow O&M Non-Labor	HECO WP-H-002	(5,135)			
25	Bad Debt Expense	GL #904	(934)			
26	Pension Reg Asset/Liab Amort	HECO WP-H-007 pg. 2	389			
27	OPEB Reg Asset/Liab Amort	HECO WP-H-007 pg. 2	1,349			
28	Sys Develop Amortization	HECO WP-H-007 pg. 2	(1,101)			
		<i>Sum of Line 22-28</i>	152,902	8.8	3,686	
29	Payroll Taxes	GL #408050	9,328	21.1	539	
30	Interest on Customer Deposits	GL #43105000	1,123	(145.7)	(448)	
31	Working Cash	<i>Sum of Line 1, 2, 9, 14, 20, 27, 28, 29</i>			<u>24,459</u>	

Footnotes:

1 See Docket No. 2010-0080, PUC Interim D&O, Exhibit B, page 2, filed July 22, 2011.

HAWAIIAN ELECTRIC COMPANY, INC.
O&M Non-Labor
2014

Pension Regulatory Asset Amortization

Standard Journal Entry No.						O&M %	Rounded 000s
<u>PAA128</u> <u>2008</u>	<u>PAA129</u> <u>1/09-7/09</u>	<u>PAA151</u> <u>8/09-12/09</u>	<u>PAA152</u> <u>2010</u>	<u>PAA153</u> <u>1/11-7/11</u>	<u>Total</u>	<u>70.69%</u> <i>Note 1</i>	
(523,716)	1,410,372	(1,260)	(1,684,572)	248,964	(550,212)	(388,945)	(389)

OPEB Regulatory Asset Amortization

Standard Journal Entry No.						O&M %	Rounded 000s
<u>PAA130</u> <u>2008</u>	<u>PAA135</u> <u>1/09-7/09</u>	<u>PAA154</u> <u>8/09-12/09</u>	<u>PAA155</u> <u>2010</u>	<u>PAA156</u> <u>1/11-7/11</u>	<u>Total</u>	<u>70.69%</u> <i>Note 1</i>	
(133,344)	(63,648)	(88,068)	(990,324)	(633,420)	(1,908,804)	(1,349,334)	(1,349)

System Development Amortization

Standard Journal Entry No.						Rounded 000s
<u>PAA109</u> <u>18607004</u> <u>OMS</u>	<u>PAA133</u> <u>18606004</u> <u>Phase 1</u>	<u>PAA143</u> <u>18606104</u> <u>Phase 2</u>	<u>PAA163</u> <u>18607704</u> <u>Replace</u>	<u>Total</u>		
471,037	356,462	127,940	145,469	1,100,909	1,101	

Footnote:

- 1 See Docket No. 2010-0080, Parties' Stipulated Settlement Letter, Exhibit 1, page 82, filed July 5, 2011.

HAWAIIAN ELECTRIC COMPANY, INC.
DECOUPLING CALCULATION WORKBOOK
DETERMINATION OF ADJUSTED 2014 TARGET REVENUES

Line No.	Description (a)	Reference (b)	Amount \$000 (c)
1	O&M RAM	5/22/14 Decoupling Filing, Sch A	11,576
2	Rate Base RAM - Return on Investment	HECO-WP-J-002, pg. 1	38,405
3	Depreciation & Amortization RAM Expense	HECO-WP-J-002, pg. 5	28,757
4	2014 Adjusted RAM Revenue Adjustment		78,738 Sch J
5	Last Rate Order Target Annual Revenues	Schedule B1	\$ 512,170
6	Revenue Tax Factor (1/(1-8.885%))		1.0975
7	Last Rate Order Target Annual Revenues plus Revenue Taxes	Line 5 x 6	\$ 562,107
8	2014 Adjusted Target Revenues subject to GDPPI Escalation	Line 4 + 7	\$ 640,845 Sch J

Note 1 See Decision and Order No. 32735, paragraph 108, Page 95, filed March 31, 2015, in which the commission noted that, "... the target revenues that will serve as the Basis for the incremented cap will be the 2014 annualized target revenues adjusted to use recorded 2014 end-of-year actuals (plant in service, depreciation and amortization, CIAC, and ADIT) rather than 2014 RAM year projects in determination of the 2014 Depreciation and Amortization RAM Expense and average rate base in the 2014 Rate Base RAM. This provision will include in the determination of the average 2014 effective rate base used in determining the RAM Cap for the 2015 RAM Revenue Adjustment, the actual end-of-year net plant in service, including all baseline projects installed in 2014, rather than the five year moving average of baseline project expenditures used in the determination of the 2014 Rate Base RAM. The adjusted 2014 target revenues will be incremented by the GDPPI index to determine the RAM Cap as provided above."

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

Line No.	Description (a)	AMOUNTS IN THOUSANDS (b)	PERCENT OF TOTAL (c)	COST RATE (d)	POST TAX WEIGHTED EARNINGS REQMTS (e)	INCOME TAX FACTOR Note (1) (f)	PRETAX WEIGHTED EARNINGS REQMTS (g)
1	PUC APPROVED CAPITAL STRUCTURE & COSTS (Note (2)):						
2	Short-Term Debt	\$ 38,210	2.35%	1.75%	0.04%	1.000000	0.04%
3	Long-Term Debt	624,620	38.36%	5.86%	2.25%	1.000000	2.25%
4	Hybrid Securities	27,994	1.72%	7.36%	0.13%	1.000000	0.13%
5	Preferred Stock	20,806	1.28%	5.46%	0.07%	1.636929	0.11%
6	Common Equity	916,533	56.29%	10.00%	5.63%	1.636929	9.21%
7	Total Capitalization	<u>\$ 1,628,163</u>	<u>100.00%</u>		<u>8.11%</u>		<u>11.74%</u>
8	RAM CHANGE IN RATE BASE \$000 (From HECO-WP-J-002, pg. 2)						<u>\$ 310,798</u>
9	PRETAX RATE OF RETURN (Line 7, Col g)						<u>11.74%</u>
10	PRETAX RETURN REQUIREMENT						<u>\$ 36,487.7</u>
11	REVENUE TAX FACTOR (1/(1-8.885%))						<u>1.0975</u>
12	RATE BASE RAM - RETURN ON INVESTMENT \$000						<u>\$ 40,045.2</u>
13	Less: Exceptional and Other Matters (From HECO-WP-J-002, p. 3)						<u>(1,639.8)</u>
14	RATE BASE RAM - RETURN ON INVESTMENT \$000						<u>38,405.4</u>

HECO-WP-J-001

Footnotes:

1 Composite Federal & State Income Tax Rate 38.91% See HECO-WP-F-001
 Income Tax Factor (1 / 1-tax rate) 1.636929121

2 See Decision and Order No. 30505, Page 127, filed June 29, 2012, in which the commission accepted the proposed capital structure set forth in the Parties' Stipulated Settlement Letter, filed July 5, 2011, in Docket No. 2010-0080, Exhibit 1, Page 125 of 132.

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

Line No.	Description	HECO 2011 Test Year Rate Base (Note 2)		HECO 2014 RAM Rate Base		
		Beg. Balance 12/31/2010 (a)	Budgeted Balance 12/31/2011 (c)	Adjusted Recorded at 12/31/2013 (d)	RAM Projected Amounts (e) = (f)-(d)	Actual Adjusted Recorded at 12/31/2014 (f)
1	Net Cost of Plant in Service	\$ 1,606,932	\$ 1,710,082	\$ 2,099,668	\$ 186,694	\$ 2,286,362
2	Property Held for Future Use	4,090	4,090	0	0	0
3	Fuel Inventory	93,228	93,228	These Elements of Rate Base are Not Updated for RAM Purposes		
4	Materials & Supplies Inventories	16,228	16,228			
5	Unamort Net SFAS 109 Reg Asset	62,723	64,246			
6	Unamort EOTP Reg Asset	523	2,136			
7	CIP CT-1 Reg Asset			5,169	(954)	4,215
8	CIS Def Cost			13,925	(1,220)	12,705
12	Unamort Sys Dev Costs	9,253	8,297	These Elements of Rate Base are Not Updated for RAM Purposes		
13	RO Pipeline Reg Asset	5,587	5,473			
14	Contrib in Excess of NPPC	-	19,411	These Elements of Rate Base are Not Updated for RAM Purposes		
15	Total Additions	\$ 1,802,566	\$ 1,925,193			
16	Unamortized CIAC	\$ (169,314)	\$ (206,279)	\$ (256,084)	\$ (25,656)	\$ (281,740)
17	Customer Advances	(1,879)	(1,855)	Not Updated		
18	Customer Deposits	(10,245)	(13,554)			
19	Accumulated Def Income Taxes	(213,833)	(271,014)	(375,263)	(81,345)	(456,608)
20	Unamortized State ITC (Gross)	(32,171)	(35,088)	Not Updated		
21	Unamortized Gain on Sale	(800)	(516)			
22	Pension Reg Liability	(3,986)	(2,522)	Not Updated		
23	OPEB Reg Liability	(6,376)	(8,749)			
24	Total Deductions	\$ (458,614)	\$ (539,577)	\$ (692,223)	\$ (87,001)	\$ (779,223)
25	Working Cash	21,047	21,047	21,047	Not Updated	21,047
26	Rate Base at Proposed Rates	\$ 1,364,999	\$ 1,406,683	\$ 1,647,869		\$ 1,745,386
27	Average Rate Base		\$ 1,385,831			\$ 1,696,829
28	Change in Rate Base					\$ 310,798
29	Column (a) Projected Changes to Rate Base:		Reference	Amount \$000		
30	Plant - Baseline Capital Project Additions		Schedule D2	165,333		
31	Major Project Additions		Schedule D3	27,102		
32	Accumulated Depreciation/Amortization Change		Schedule E	(113,885)		
33	Net Plant		Sum: Lines 30-32	78,550		
34	Accum. Deferred Income Taxes - Baseline and Major Capital Projects		Schedule F	(2,748)		
35	Projected CIAC Additions - Baseline		Schedule G	(21,477)		
36	Projected CIAC Additions - Major CIP		Schedule G2	(3,888)		
37	Less: Amortization of CIAC		Schedule G	6,148		
38	Total Change in CIAC in Rate Base		Sum: Lines 35-37	(19,216)		

HECO-WP-J-002, p. 1

Footnotes:

1 Amounts are recorded, except for the following adjustments:

	Plant in Service	Acc. Depr.	CIAC Net	ADIT
[A] Unadjusted Balance	\$ 3,801,976	\$ (1,235,806)	\$ (256,084)	Schedule D4
[A] Add: Asset Retirement Obligation		\$ (42,649)		
[A] Reg Liab-Cost of Removal (net salvage)		\$ (211,551)		
Major Project Adjustments:	HECO-WP-D2-001	HECO-WP-E-001	HECO-WP-D4-002	
Waiau 8 Boiler Cts Upgrade	(1,093)	40		214
Waiau 8 Main Transformer Replace	(243)	14		48
Kahuku Wind Power	(7)	6		1
W7 Controls Upgrade	(416)	2		77
Kakaako Makai-Iwalei	(3,034)			555
Tenant Improvement Allowance (Sch E)	(11,711)	3,940		
Total Adjustments	\$ (16,504)	\$ 4,002	\$ -	895
CIS, CIP Adjustments - ADIT	HECO-WP-D4-003			Schedule D4
NOL Adjustment - ADIT	Sch D4, Footnote 1			
ADIT on IVR				\$ (360)
ADIT on ERP				\$ (405)
ADIT on Big Wind				\$ 788
Adjusted Balance	\$ 3,585,472	\$ (1,485,804)	\$ (256,084)	\$ (375,263)

2 See Hawaiian Electric Company, Inc. Decision and Order No. 30505, EXHIBIT B, Page 1 of 2, For Approval of Rate Increases and Revised Rate Schedules and Rules, filed June 29, 2012, in Docket No. 2010-0080.

3 In Transmittal No. 13-03 (Decoupling, Hawaiian Electric's RBA Rate Adjustment Tariff Filing, Hawaiian Electric's Response to the Division of Consumer Advocacy's Statement of Position and Revised RBA Rate Adjustment), Schedule D1, filed on May 14, 2013, these amounts were not updated for RAM purposes. However, in 2012 and 2013, the entire balance of Property Held for Future Use (PHFFU) was transferred to Plant in Service, resulting in a zero balance in PHFFU. Leaving these amounts unchanged from the balance at 12/31/11 would result in an overstatement of rate base by \$4,090.

Balance PHFFU at 12/31/11	\$ 4,089,920
Less transfers to Plant in Service:	
CIP 1 Unit Addition - Land	(1,809,875)
Kaloai Substation Land	(2,276,439)
Kapolei Substation	(3,806)
Balance PHFFU at 12/31/13	\$ -

4 See Adjusted Recorded at 12/31/14 for the respective line items per Schedule D1 of Transmittal No. 15-03 (Decoupling) filed on March 31, 2015.

5 The revenue requirement impact of the CIP CT-1 Regulatory Asset and CIS Deferred Cost balances are separately calculated on WP-J-002, page 3, therefore, there are no adjustments of this balance reflected in this worksheet.

[A] SOURCE: Hawaiian Electric Company, Inc. Monthly Financial Report - December 2013, pages 8 and 10, filed February 21, 2014.

HAWAIIAN ELECTRIC COMPANY, INC.
DECOUPLING CALCULATION WORKBOOK
EXCEPTIONAL & OTHER MATTERS - RETURN ON/OF INVESTMENT
\$ In thousands

Line No.	Description (a)	Reference (b)	HECO 2014 RAM Rate Base (Note 1)		
			Adjusted Recorded at 12/31/2013 (c)	RAM Projected Amounts (d)	Actual Adjusted Recorded at 12/31/2014 (e)
1	CIP CT-1 Reg Asset	HECO-WP-J-002, p.2	5,169	(954)	4,215
2	CIP CT-1 ADIT				
3	28598 - CIP Interest	3/31/14 HECO-WP-D4-001	(1,490)	275	(1,215)
4	Adjustment	3/31/14 HECO-WP-D4-003	514	(85)	419
5		Sum Line 1 - 4	4,193	(774)	3,419
6	CIS Def Cost	HECO-WP-J-002, p.2	13,925	(1,220)	12,705
7	CIS ADIT				
	AFUDC ADIT Adjustment	Note 2	(2,772)	-	(2,772)
8	28532 - CIS Project & 28612 - CIS Interest	3/31/14 HECO-WP-D4-001	(1,951)	164	(1,788)
9	Adjustment	3/31/14 HECO-WP-D4-003	258	(23)	236
10		Sum Line 6 - 9	9,460	(1,079)	8,381
11	CIP CT-1 & CIS	Line 5 + 10	13,653	(1,853)	11,800
12	2014 Average Balance				\$ 12,726.9
13	Change in Rate Base				\$ 12,726.9
14	Pretax Rate of Return	Schedule D			11.74%
15	Pretax Return Requirement	Line 13 x 14			\$ 1,494.1
16	Revenue Requirement \$000	Line 15 x 21			\$ 1,839.8 HECO-WP-J-002 (1)
17	CIP CT-1 Amortization	3/31/14 HECO-WP-D1-001A			\$ 954.0
18	CIS Amortization	3/31/14 HECO-WP-D1-001B			\$ 1,220.0
19	Total Amortization for Exceptional & Other Matters				\$ 2,174.0
20	Revenue Requirement \$000	Line 19 x 21			\$ 2,386.0
21	Revenue Tax Factor (1/(1-8.885%))	Schedule D			1.0975
22	Total Return on/of Investment \$000	Line 16 + 20			\$ 4,025.8

Note 1 See Decision and Order No. 32735, paragraph 107, Page 94 - 95, filed March 31, 2015, in which the commission noted that 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. Accordingly, adjustments for CT-1 costs (for HECO) and CIS costs (for all of the HECO Companies) as provided in a stipulated agreement approved by the commission as amended in Order No. 31126 in Docket No. 2008-0063 are being treated as Exceptional & Other Matters not subject to the RAM Cap.

Note 2 ADIT on originating AFUDC was recorded to AFUDC Debt and Equity in the years incurred. This ADIT was properly included in rate base in the past, but there was no need to separate this until the RAM Cap was instituted. The ADIT is calculated as follows:

Base	32.8947%		6.0150%	
	Federal	State	Total	
AFUDC on CIS deferred costs	(7,123,933)	(2,343,396)	(428,505)	(2,771,901)

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

Line No.	NARUC Account	Recorded Depreciable/Amort. Balance (Footnote 3)	Adjustments (Footnote 1)	Adjusted Depreciable/Amort. Balance	PUC Approved Accrual Rate	Annual Accrual
	(a)	(b)	(c)	(d)	(e)	(f)
1	Depreciable Plant					
2	311	89,072,912		89,072,912	0.01800	1,425,167
3	312	369,276,855	(1,498,568)	367,778,289	0.02030	7,465,899
4	314	182,448,297		182,448,297	0.01540	2,809,704
5	315	73,540,758	(243,014)	73,297,744	0.02430	1,781,135
6	Tot - Steam	714,338,822	(1,741,580)	712,597,242	0.01887	13,481,905
7						
8	341	38,039,920		38,039,920	0.00770	292,907
9	342	16,257,068		16,257,068	0.02580	419,432
10	343	65,150,372		65,150,372	0.03280	2,123,902
11	344	27,710,730		27,710,730	0.01010	279,878
12	345	34,501,242		34,501,242	0.02510	865,981
13	Tot - Gas Turb	181,659,332	-	181,659,332	0.02192	3,982,101
14						
15	Tot - Prod	895,998,154	(1,741,580)	894,256,574		17,464,006
16						
17	3501	3,042,698		3,042,698	-	-
18	352	39,198,124		39,198,124	0.01600	627,170
19	353	290,040,187		290,040,187	0.01860	5,394,747
20	354	19,145,585		19,145,585	0.01480	283,355
21	355	280,419,552		280,419,552	0.03240	9,085,593
22	356	147,876,362		147,876,362	0.03270	4,835,557
23	357	53,223,009		53,223,009	0.01590	848,246
24	358	54,101,473		54,101,473	0.01730	935,955
25	359	3,201,408		3,201,408	0.01490	47,701
26	Tot - Transm	890,248,398	-	890,248,398	0.02478	22,058,325
27						
28	3601	554,327		554,327	0.02340	12,971
29	361	24,476,393		24,476,393	0.01080	264,345
30	362	225,061,391		225,061,391	0.02020	4,546,240
31	364	181,575,630	(37,788)	181,537,842	0.03390	6,154,133
32	365	112,117,242	(27,345)	112,089,897	0.04190	4,696,567
33	366	241,891,265	(10,746)	241,880,519	0.02190	5,297,183
34	367	378,113,270	(4,843,482)	373,269,788	0.04980	18,489,235
35	368	205,094,071	(338,839)	204,755,232	0.05200	10,847,376
36	369.1	53,432,169		53,432,169	0.05250	2,805,189
37	369.2	180,572,056		180,572,056	0.04070	7,349,283
38	370	35,262,462		35,262,462	0.02660	937,981
39	Tot - Distr	1,638,150,276	(5,256,200)	1,632,894,076	0.03741	61,200,504
40						
41	Tot - T & D	2,528,398,674	(5,256,200)	2,523,142,474		83,258,829
42						
43	390	61,994,682		61,994,682	0.02450	1,518,870
44	Tot - General	61,994,682	-	61,994,682	0.02450	1,518,870
45						
46	Sub-Total	3,484,391,510	(6,997,780)	3,477,393,730		102,239,705
47						
48	3902 (King)	7,818,022		7,818,022	0.02296	179,502
49	3902 (CPP)	2,187,853		2,187,853	0.15092	330,191
50	3902 (Waterhouse)	1,517,450		1,517,450	0.42522	645,250
51	3902 (Hon Cl)	306,065		306,065	0.19550	59,836
52	3902 (ASB)	1,454,250		1,454,250	0.21737	316,110
53	3902 (Shinco)	654,853		654,853	0.33658	220,410
54	3902 (Tenant Allowance)	12,893,864	(12,893,864)	-	-	-
55	Tot- LH Impr	26,832,357	(12,893,864)	13,938,493		1,751,299
56						
57	392	50,548,812		50,548,812	0.06130	3,088,642
58						
59	Utility Total Depreciation	3,561,772,679	(19,891,644)	3,541,881,035	0.03007	107,089,646

Line No	NARUC Account (a)	Recorded Depriciable/Amort. Balance (Footnote 3) (b)	Adjustments (Footnote 1) (c)	Adjusted Depriciable/Amort Balance (d)	PUC Approved Accrual Rate (e)	Annual Accrual (f)
60	Amortizable Plant					
61	316	21,630,439		21,630,439	0.05000	1,081,522
62	Tot - Steam	21,630,439	-	21,630,439	0.05000	1,081,522
63						
64	346	18,224,141		18,224,141	0.05000	911,207
65	Tot - Gas Turb	18,224,141	-	18,224,141	0.05000	911,207
66						
67	Tot - Prod	39,854,580	-	39,854,580	0.05000	1,992,729
68						
69	3911	23,065,999		23,065,999	0.20000	4,613,200
70	3912	4,205,877		4,205,877	0.10000	420,588
71	3913	14,154,814		14,154,814	0.06670	944,126
72	393	1,159,596		1,159,596	0.04000	46,384
73	394	26,323,322		26,323,322	0.04000	1,052,933
74	395	573,848		573,848	0.06670	38,276
75	396	13,078		13,078	0.05560	727
76	397	105,964,465	(7,161)	105,957,304	0.06670	7,067,352
77	398	5,349,565		5,349,565	0.06670	356,816
78	Tot - General	180,810,564	(7,161)	180,803,403	0.08042	14,540,401
79						
80						
81						
82						
83						
84						
85	Net Unrecovered Amortization					(1,101,041)
86						
87	Utility Total Amortization	220,665,144	(7,161)	220,657,983	0.06993	\$ 15,432,089
88						
89	TOTAL RAM DEPRECIATION / AMORTIZATION					\$ 122,621,735
90	LESS: Vehicle Depreciation (A/C 392 above)					\$ (3,098,842)
91	LESS: Depreciation & Amortization in Current Revenues				Footnote 2	\$ (94,237,000)
92						
93	RAM Adjustment for Depreciation & Amortization					\$ 26,188,093
94	RAM Adjustment for CIAC Amortization				Sch. G	\$ 1,016,852
95	RAM Adjustment for CIP CT-1 Reg Asset Amortization				HECO-WP-D1-001A	954,000
96	RAM Adjustment for CIS Def Cost Amortization				HECO-WP-D1-001B	1,220,000
97	Total RAM Adjustment for Depreciation & Amortization					\$ 28,376,945
98	Times: Factor for Revenue Taxes					1.09750
99						
100	RAM DEPRECIATION & AMORTIZATION					\$ 31,142,599
101						
102	RAM Adjustment for CIP CT-1 Reg Asset Amortization (from Line 95)					(954,000)
103	RAM Adjustment for CIS Def Cost Amortization (from Line 96)					(1,220,000)
104	Depreciation and Amortization for Exceptional and Other Matters					(2,174,000)
105	Times: Factor for Revenue Taxes					1.09750
106	Total Depreciation and Amortization for Exceptional and Other Matters					(2,385,965)
107						
108	ADJUSTED RAM DEPRECIATION & AMORTIZATION (Line 100 - 106)					\$ 28,756,634

HECO-WP-J-001

Footnotes:

Amounts are recorded (in \$000s), except for the following adjustments
(see HECO-WP-D2-001):

	Plant in Service From D1
1	
Waiau 8 Boiler Ctl's Upgrade	\$ (1,074)
Waiau 8 Main Transformer Replace	(243)
Kahuku Wind Power	(7)
W7 Controls Upgrade	(424)
Kakaako Makai-Iwilei	(3,519)
Kakaako Makai-Kewalo/DOT Queen-Cook	(1,737)
Tenant Improvement Allowances (see Footnote 4)	(12,894)
Total	\$ (19,898)
2	
Depreciation & Amortization in Current Revenues*:	Depr/Amort Expense
Total Depreciation	\$ 97,297,000
LESS: Vehicle Depreciation (A/C 392)	(2,292,000)
LESS: CIP CT-1 excess depreciation	(803,000)
LESS: EOTP excess depreciation	(1,171,000)
ADD: Revised EOTP excess depreciation **	1,006,000
Net Depreciation in Current Revenues	\$ 94,237,000

*Amounts are per page 90 of Exhibit 1 to the Parties' Stipulated Settlement Letter dated July 5, 2011 in HECO's 2011 last year rate case (Docket No. 2010-0080).

**Amount is per page 1 of Exhibit 2, Attachment 3 to the Stipulated Supplement to the Parties' July 5, 2011 Stipulated Settlement Letter with respect to East Oahu Transmission Project Phase 1 Costs, dated February 3, 2012. Depreciation added in EOTP interim was based on 2010 plant adds and the 2010 actual depreciation rates (blended rate in 2010). The 2012 depreciation is based on additional plant adds made in 2011 included in the February 3, 2012 stipulation supplement, offset by the write-down of \$9.5M of costs and the lower depreciation rates in 2012 (full year of the lower depreciation rates).

3 Does not include land amounting to \$43,819,606 as of December 31, 2014.

4 Amount represents tenant improvement allowances paid by the lessors and excluded from the RAM calculation

HAWAIIAN ELECTRIC CO., INC.
ADJUSTMENT TO RATE BASE FOR REG ASSET ON EOTP, CIP, CIS

	+ = addback - = deduct						DR / (CR)	DR / (CR)	DR / (CR)
	2011	2012	2013	2014	2015	Cumulative	32.8947%	6.0150%	Total
	Add'l Debt	Add'l Debt	Add'l Debt	Add'l Debt	Add'l Debt	Add'l Debt	Def Fed	Def State	Def Tax
EOTP interest (7/11 - 3/12)	450,028	140,706				590,734	194,320	35,533	229,853
EOTP amort beg 4/12		(73,845)	(98,460)	(98,460)	(98,460)	(369,225)	(121,455)	(22,209)	(143,664)
Total EOTP	450,028	66,861	(98,460)	(98,460)	(98,460)	221,509	72,865	13,324	86,189
CIP interest (7/11 - 5/13)	415,582	726,147	320,463			1,462,192	480,984	87,951	568,935
CIP amort beg 6/13			(142,158)	(243,699)	(243,699)	(629,556)	(207,091)	(37,868)	(244,959)
Total CIP	415,582	726,147	178,305	(243,699)	(243,699)	832,636	273,893	50,083	323,976
									Sch K1 pg.1
CIS interest (5/12 - 5/13)		545,064	152,938			698,002	229,808	41,985	271,591
CIS amort beg 6/13			(33,931)	(58,167)	(58,167)	(150,285)	(49,429)	(9,038)	(58,467)
Total CIS	-	545,064	119,007	(58,167)	(58,167)	547,737	180,177	32,947	213,124
									Sch K1 pg.2
TOTAL	865,610	1,338,072	198,852	(400,326)	(400,326)	1,601,882	526,935	96,354	823,289

The GL balance includes the AFUDC debt and the AFUDC additional debt.
 The Rate base balance includes just the AFUDC debt.
 The difference between GL and Rate base balance is the AFUDC additional debt

HAWAIIAN ELECTRIC CO., INC.
 CIS PROJECT BASIS

		Basis				ADIT			
		Book	Fed Tax	State Tax	Fed Book - Tax Diff	State Book - Tax Diff	Federal 35.00000%	State 6.01504%	Total
CIS Book Basis	#186050	38,927,304	38,927,304	38,927,304					
	#18670201	2,474,707	2,474,707	2,474,707					
	#18670202	1,019,491	1,019,491	1,019,491					
	#18670203	65,648	65,648	65,648					
Total Book Basis		42,487,150	42,487,150	42,487,150					
AFUDC			(7,123,933)	(7,123,933)					
Whitedown of CIS Costs		(29,000,000)	(29,000,000)	(29,000,000)					
		13,487,150	6,363,217	6,363,217					
Book / Tax Bases Differences			(2,400,052)	(2,400,052)					
Post Go Live carrying charge		282,815							
Amortization - 2012		-	(2,421,934)	(880,703)					
Amortization - 2013		(669,373)	(660,462)	(1,320,923)					
Balance as of 12/31/13		13,100,592	880,769	1,761,539	12,219,823	11,339,053	(4,038,221)	(682,048)	(4,720,269)
Amortization - 2014		(1,147,497)	(660,462)	(1,320,923)					
Balance as of 12/31/14		11,953,095	220,307	440,616	11,732,788	11,512,479	(3,864,108)	(692,480)	(4,556,588)
Amortization - 2015	Note 1	(1,147,497)	(220,307)	(440,616)					
Balance as of 12/31/15		10,805,598	-	-	10,805,598	10,805,598	(3,554,473)	(649,961)	(4,204,434)

Note 1 > For tax purposes, CIS costs are amortized over 36 months and are fully amortized in 2015.