

FILED

BEFORE THE PUBLIC UTILITIES COMMISSION

2015 MAR 31 P 4:12

OF THE STATE OF HAWAI'I

PUBLIC UTILITIES  
COMMISSION

In the Matter of the Application of	)	
	)	
HAWAIIAN ELECTRIC COMPANY, INC.	)	Transmittal No. 15-03 (Decoupling)
	)	
For approval to modify the RBA Rate Adjustment	)	Effective
in Its Revenue Balancing Account Provision Tariff	)	Date: June 1, 2015
_____	)	

I

Hawaiian Electric Company, Inc. ("Hawaiian Electric" or "Company") files this transmittal to revise paragraph E (Tariff Sheet No. 92C) of its Revenue Balancing Account ("RBA") Provision tariff ("RBA Tariff") to revise the RBA Rate Adjustment by \$0.001561 from the current rate of \$0.021269 per kilowatt-hour ("kWh") to the new rate of \$0.022830 per kWh, effective June 1, 2015 through May 31, 2016. The RBA Rate Adjustment is based on the Company's RBA balance at the end of 2014 and the Company's Rate Adjustment Mechanism ("RAM") Revenue Adjustment for calendar year 2015.

II

Hawaiian Electric, whose principal place of business and whose executive offices are located at 900 Richards Street, Honolulu, Hawai'i, is a corporation duly organized under the laws of the Kingdom of Hawai'i on or about October 13, 1891, and now exists under and by virtue of the laws of the State of Hawai'i. Hawaiian Electric is an operating public utility engaged in the production, purchase, transmission, distribution and sale of electricity on the island of O'ahu.

### III

Correspondence and communications in regard to this Transmittal No. 15-03 are to be addressed to:

Dean K. Matsuura  
Manager, Regulatory Rate Proceedings  
Hawaiian Electric Company, Inc.  
P. O. Box 2750  
Honolulu, Hawai'i 96840

### IV

Hawaiian Electric seeks Commission authorization of this tariff transmittal pursuant to Sections 6-61-111, 6-61-74, 6-61-75, and 6-61-86 of the *Rules of Practice and Procedure before the Public Utilities Commission*, Hawai'i Administrative Rules ("HAR"), Title 6, Chapter 61.

### V

Pursuant to HAR §6-61-76, Hawaiian Electric incorporates by reference its latest available balance sheet and income statement for the twelve months ending February 28, 2015 filed with the Commission on March 30, 2015.

### VI

On August 31, 2010, the Commission issued its *Final Decision and Order* in Docket No. 2008-0274, approving the decoupling mechanism for the Hawaiian Electric Companies.<sup>1</sup> On December 29, 2010, the Commission issued its *Final Decision and Order* in Hawaiian Electric's 2009 test year rate proceeding, Docket No. 2008-0083, allowing the Company to implement the decoupling mechanism and begin tracking target revenue and recorded adjusted revenue which serve as the baseline for future decoupling calculations. Beginning in 2011, Hawaiian Electric filed tariff transmittals to annually establish an RBA Rate Adjustment, which the Commission

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

subsequently approved.<sup>2</sup> In its annual filing in 2013, the Company included in the RAM Revenue Adjustment the net recoverable costs of the Campbell Industrial Park (“CIP”) combustion turbine unit 1 (“CT-1”) and the customer information system (“CIS”) not already included in rates, pursuant to the *Stipulated Settlement Agreement between the Hawaiian Electric Companies and the Division of Consumer Advocacy regarding Certain Regulatory Matters* (“Stipulated Settlement”) in Docket No. 2008-0083, dated January 28, 2013, which the Commission approved with clarifications in Order No. 31126 on March 19, 2013.<sup>3</sup>

On May 31, 2013, the Commission issued Order No. 31289 in Docket No. 2013-0141 to open an investigative docket to review whether the decoupling mechanisms are functioning as intended, are fair to the Companies and their ratepayers, and are in the public interest, and named the Hawaiian Electric Companies and the Division of Consumer Advocacy of the Department of Commerce and Consumer Affairs (“Consumer Advocate”) to be parties in this proceeding.<sup>4</sup> The Commission later granted motions to intervene filed by the County of Hawai‘i, Hawaii Solar Energy Association, Blue Planet Foundation and Hawaii Renewable Energy Alliance. In Order No. 31484 (pages 4 and 16), the Commission stated that it would divide the issues in this docket

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<sup>2</sup> Refer to Transmittal Nos. 11-02, 12-02, 13-03 and 14-03, filed March 31, 2011, March 30, 2012, March 28, 2013 and March 31, 2014, respectively, and approved in *Order Approving HECO’s Tariff Filed on May 10, 2011, as Revised on May 26, 2011, Order No. 30418 Approving HECO’s Tariff Transmittal Filed on March 30, 2012, as Revised on May 23, 2012, Order No. 31287 Consolidating Proceedings and Approving Multiple Tariff Transmittals* and *Order No. 32112 Consolidating Proceedings and Approving Tariff Transmittals*, respectively. For information on past years’ filings as well as additional background information on decoupling, refer to the transmittals cited here.

<sup>3</sup> Order No. 31126 also approved the provisions of the Stipulated Settlement that, for only the 2014, 2015 and 2016 RAM periods, and only for Hawaiian Electric, the Company will be allowed to accrue the 2014, 2015 and 2016 RAM Revenue Adjustments, effective January 1 through December 31 of the calendar year. Once the Company is able to calculate the RAM amount, the Company will record RAM Revenue Adjustment revenue for the monthly accruals. Recording of the accruals for those years will be delayed until the Company is able to determine the RAM amount. The Company is allowed to collect the ratably accrued RAM Revenue Adjustment amounts that are recorded from January through December, based on the monthly allocation factors, through the RBA Rate Adjustment in years 2014, 2015 and 2016 from June 1 of each year to May 31 of the following year.

<sup>4</sup> See *Order No. 31289 Initiating Investigation*, issued May 31, 2013, in Docket No. 2013-0141.

into two categories, Schedule A and Schedule B, and address them pursuant to separate procedural schedules.

On February 7, 2014, the Commission issued Decision and Order No. 31908 on the Schedule A issues, which directed the modification of certain provisions of the decoupling mechanisms. These modifications included the following: 1) effective March 1, 2014, the Companies shall use the short term debt rate, as established in deriving the consolidated cost of capital in each of the Companies' last full rate case, to compute interest on the outstanding RBA balances, and 2) the rate base RAM return on investment adjustment ("Rate Base RAM Adjustment") shall be equal to the prior RAM period's rate base RAM return on investment calculation plus 90 percent 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.<sup>5</sup> On February 28, 2014, the Companies filed amended tariffs implementing the provisions of the decision and order and on March 28, 2014, the Commission approved the Companies' amended tariffs in Order No. 32001 in Docket No. 2013-0141.

In Decision and Order No. 31908, the Commission also ordered the Companies to investigate the possibility that they may be able to defer payment of income taxes on the accrued amounts of decoupling revenue and make recommendations as to deferred tax treatment. On May 6, 2014, the Companies notified the Commission that they received approval from the Internal Revenue Service ("IRS") effective January 1, 2014 to change their accounting method from a book method of RBA revenue recognition to a recognition method based on when rates are adjusted for the RBA, and on May 19, 2014, provided information on how they will implement the change to reduce the amount of interest to be accrued.

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<sup>5</sup> If the prior RAM period is a rate case test year, then the Rate Base RAM Adjustment shall be equal to 90 percent of the current RAM period's rate base RAM return on investment calculation.

The Schedule B phase of Docket No. 2013-0141 is in progress.

## VII

By this Transmittal, Hawaiian Electric proposes to revise its decoupling RBA Rate Adjustment from the current rate of \$0.021269 per kWh to the new rate of \$0.022830 per kWh, effective June 1, 2015 through May 31, 2016.

The Company calculated its RBA Rate Adjustment according to its RBA and RAM tariff provisions.<sup>6</sup> The 2015 RBA Rate Adjustment includes the recovery of the RBA balance at year end 2014 and the calculated RAM revenue adjustment for calendar year 2015. Forty percent of the RBA Rate Adjustment includes the recovery of the RBA balance at year end 2014, while 60% of the RBA Rate Adjustment corresponds to the 2015 RAM amount. There are no adjustments to the RBA Rate Adjustment for earnings sharing revenue credits or for Commission-ordered major capital projects credits or baseline capital projects credits. (Refer to Schedule A of Attachment 2 described in Section VIII of this tariff transmittal.) However, the Company adjusted the RAM Revenue Adjustment downward to comply with Decision and Order No. 31908, as explained below. Based on the revised rate, a monthly bill for a Hawaiian Electric customer using 600 kWh of electricity would increase by \$0.94.<sup>7</sup>

The 2015 RBA Rate Adjustment will replace the 2014 RBA Rate Adjustment and, as more fully discussed below, reflects 1) the RBA balance as of the end of 2014, 2) four years of escalation from the 2011 test year (Hawaiian Electric's last rate case) of bargaining unit labor and certain non-labor O&M expenses, 3) the return on net additions to plant in 2012, 2013 and 2014, with 2015 calculated as the Commission ordered in Decision and Order No. 31908 in

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<sup>6</sup> Refer to the Hawaiian Electric Tariff Revised Sheet Nos. 92, 92A – 92C, Sheet No. 92D and Revised Sheet Nos. 93 and 93A – 93H.

<sup>7</sup> The monthly bill for a household using 600 kWh with the revised rate would be \$13.70 as compared to \$12.76, based on the current rate.

Docket No. 2013-0141, and 4) additional depreciation and amortization expense from 2011 test year levels. The 2015 RBA Revenue Adjustment will be higher than the 2014 RBA Revenue Adjustment, which represented escalation in costs and investments for three years from the 2011 test year – i.e., escalation in expenses and net additions to plant in 2012 and 2013, and estimated 2014 baseline and major project investments only. The following sections explain the amounts that make up the 2015 RBA Revenue Adjustment.

### RBA Balance

The RBA revenue balance results from the sales decoupling component of the Commission-approved decoupling mechanism, which breaks the linkage between the Company's sales and total electric revenue. The approved RBA tariff allows Hawaiian Electric to record certain revenues only at target revenue levels (i.e., those authorized in the 2011 test year rate case plus the effective RAM Revenue Adjustments, less any applicable earnings sharing and/or major or baseline capital project credits), independent of the level of sales experienced. The approved RBA tariff also requires interest to be recorded monthly to the RBA at the interest rate specified in accordance with Order No. 32001, dated March 28, 2014. As a result, effective March 1, 2014, the annual rate used to calculate interest on the RBA balance changed from 6% to 1.75%, which is the short term debt rate as established in computing the consolidated cost of capital in the Company's last full rate case. Additionally, based on Order No. 31908 and pursuant to IRS approval to change the tax treatment of its RBA revenues, effective January 1, 2014, the Company changed its basis for computing interest from a gross to a net-of-deferred income tax RBA balance.

The cumulative balance of the RBA at the end of 2014 was \$57.8 million, and consisted of revenues recorded in the RBA as a result of decoupling, net of the amounts previously

recovered through the RBA Rate Adjustment, since the inception of decoupling at Hawaiian Electric in 2011. This is a decrease from the RBA balance at the end of 2013 of \$66.2 million. In 2014, \$60.3 million of the 2013 year-end balance were recovered through the RBA Rate Adjustment, and \$52.0 million recorded as revenues and interest as a result of decoupling. Therefore, the 2014 year-end balance of \$57.8 million represents the unrecovered cumulative RBA balance and additional amounts due to a shortfall in revenues<sup>8</sup> resulting from lower sales in 2014. Because the revenues associated with the RBA balance have already been recorded, they have already been reflected in the Company's net income in those years and will not contribute to the Company's earnings in 2015. The 2014 year-end RBA balance of \$57.8 million is grossed-up to \$63.4 million to include revenue taxes.

Hawaiian Electric's 2014 recorded sales totaled 6,781.7 gigawatt-hours ("GWh"), which were 687.8 GWh, or 9.2% lower than the 7,469.5 GWh test year estimate (based on the May 2010 forecast) identified in the Hawaiian Electric 2011 test year rate case. The actual sales in 2014 continued to decline from 2013, 2012 and 2011.<sup>9</sup>

The residential and commercial sectors both experienced lower than forecasted sales in 2014, with the larger decrease of 21.6% in the residential sector where customers decreased their average monthly usage by 22.7%, as compared to the commercial sales decrease of 4.5% (see Table 1 below).

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<sup>8</sup> That is, "recorded adjusted revenue" as defined in the RBA Tariff.

<sup>9</sup> The actual sales for 2011 totaled 7,242.4 GWh, a difference of 227.2 GWh, or 3.0%, from the test year estimate. The actual sales in 2011, 2012, 2013 and 2014 were 7,242.4 GWh, 6,976.0 GWh, 6,858.5 GWh and 6,781.7 GWh respectively. If the 2011 test year sales estimate had been lower (e.g., closer to actual sales for 2011), then the current RBA balance would have been lower, but the interim and final base rates resulting from the rate case would have been higher.

**Table 1**  
Comparison of TY2011 to Actuals

	TY2011	2011 Actuals	2012 Actuals	2013 Actuals	2014 Actuals	Diff Btw 2014 and TY2011	% Diff
<u>Residential Sector</u>							
Sales (GWh)	2,054.5	1,925.0	1,776.8	1,667.3	1,611.1	(443.4)	-21.6%
Customers	262,931	263,023	264,041	265,372	266,923	3,992.0	1.5%
Average Monthly Use (kWh/Customer)	651	610	561	524	503	(148.0)	-22.7%
Renewable Generation GWh Impacts <sup>1</sup>	9.1	21.1	66.5	177.2	281.5	272.4	2982.4%
Energy Efficiency Impacts (GWh) <sup>2</sup>	187.6	267.6	320.0	363.0	401.4	213.8	113.9%
Electricity Price (Nominal) ¢/kWh	25.59	32.04	35.10	34.62	35.48	9.9	38.6%
<u>Commercial Sector</u>							
Sales (GWh)	5,415.0	5317.4	5,199.2	5,191.2	5,170.5	(244.5)	-4.5%
Customers	33,713	33,611	33,541	33,549	33,800	87.0	0.3%
Renewable Generation GWh Impacts <sup>1</sup>	30.6	34.2	57.2	80.3	105.8	75.2	245.6%
Energy Efficiency Impacts (GWh) <sup>2</sup>	347.8	359.7	405.4	436.8	475.0	127.2	36.6%
Electricity Price (Nominal) ¢/kWh	20.78	27.97	30.64	29.64	30.22	9.4	45.4%
Total Sales (GWh)	7,469.5	7,242.4	6,976.0	6,858.5	6,781.7	(687.8)	-9.2%
<u>Weather</u>							
Cooling Degree Days <sup>3</sup>	4,780	4,954	4,532	4,506	4,909	129.0	2.7%
Average Wet Bulb Temperature (degrees)	69.7	70.0	68.9	68.8	69.6	(0.1)	-0.1%

<sup>1</sup> Cumulative impacts are from systems installed under the NEM, SIA and FIT tariffs.

TY2011 did not include impacts under FIT

<sup>2</sup> TY2011 estimates are consistent with Docket 05-0069. Actuals include impacts provided by Hawaii Energy.

<sup>3</sup> A cooling degree day is a measurement designed to reflect the demand for energy to cool a home or business.

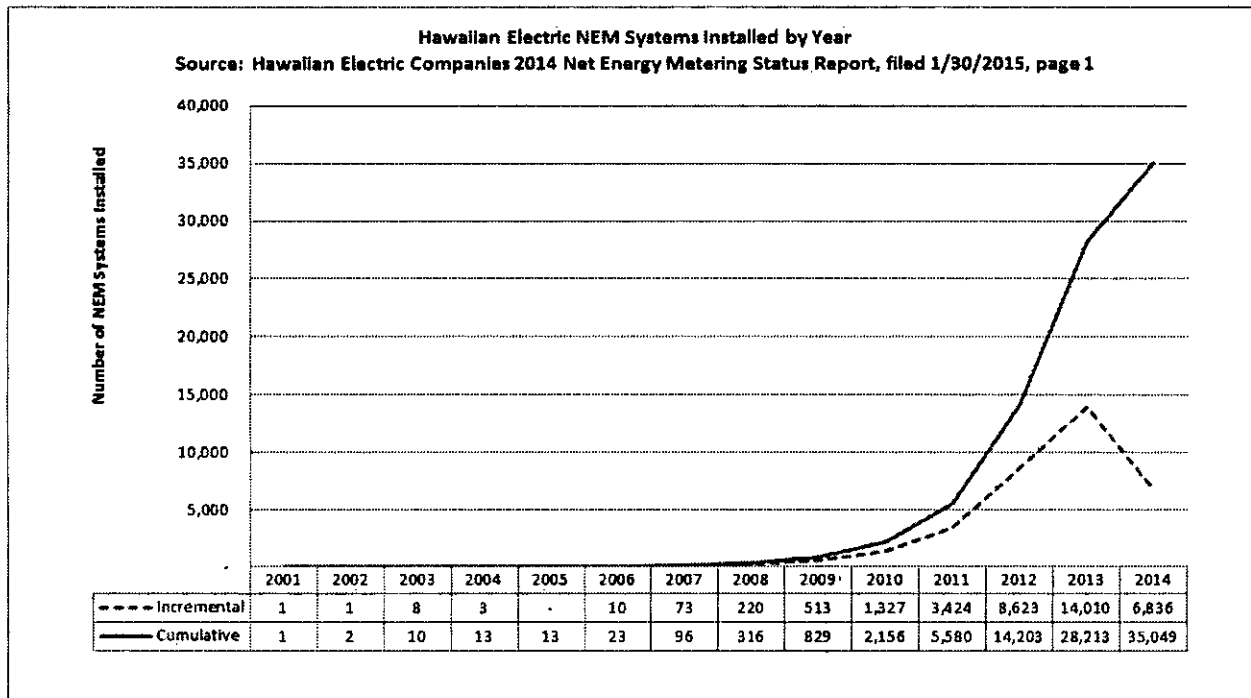
It is calculated by subtracting 65 from the day's average temperature.

Several factors have contributed to the lower than forecast sales in 2014. First, higher penetrations of customer-sited renewable generation systems installed under Net Energy Metering (“NEM”), Standard Interconnection Agreements (“SIA”) and Feed-In-Tariffs (“FIT”) had a significant impact on sales. The cumulative 2014 impacts of systems installed under NEM, SIA and FIT<sup>10</sup> were higher than the 2011 test year assumed impacts by 2,982.4% for the residential sector and 245.6% for the commercial sector. The 2011 test year forecast did not anticipate the volume of systems installed in the 2010-2014 period. As shown in the 2014 Net Energy Metering Status Report filed January 30, 2015, page 1, the cumulative number of NEM installed systems on Hawaiian Electric’s grid jumped from 829 in 2009 to 35,049 in 2014, a

<sup>10</sup> The impacts to sales under FIT are associated with the output from the system that offsets a customer’s load as opposed to what is sold to the Company.



4,128% increase over five years. Refer to the graph below for the number of NEM systems installed by year.



Second, the actual impact to sales from the installation of energy efficient technologies was also greater than the 2011 rate case forecast. Impacts consistent with those filed in the Company’s Energy Efficiency proceeding, Docket No. 05-0069, were used to develop the 2011 rate case forecast as information on future program impacts were not available at that time. The differences for the years 2011 through 2014 between the Public Benefits Fund Administrator’s programs and those identified in the Energy Efficiency docket resulted in impacts that were greater than the demand side management (“DSM”) impact assumed in the test year.

Third, higher energy prices in 2014 compared to the 2011 test year encouraged customer conservation which contributed to the decline in sales in addition to influencing the installation of renewable energy systems and energy efficient technologies.

Lastly, the economy also appears to have played a factor in lower-than-forecasted sales. The 2011 test year sales were based on a Hawai'i economic outlook prepared by the University of Hawai'i Economic Research Organization in March 2010. At that time, the national and local economies were expected to emerge from the recession sooner than what transpired. The economic rebound has been less dynamic than previous post-recession recoveries. In 2011, rather than strengthen, the U.S. economic recovery slowed, and other global economies struggled. Despite some recent upticks, Hawai'i's economic recovery remains uneven and vulnerable to the effects from external events such as natural disasters, global conflicts, rising fuel costs and uncertainty in Federal spending.

In summary, declining sales in 2014 created a shortfall in electric sales revenue and the recovery of the Company's fixed costs for the provision of electric service to its customers. This shortfall was offset by 2014 recoveries through the RBA Rate Adjustment, which lowered the balance in the RBA to \$57.8 million at the end of 2014.

#### O&M RAM Adjustment

The 2015 operations and maintenance ("O&M") RAM adjustment is \$14.7 million. It includes the adjustments to the Commission-approved 2011 test year rate case labor (bargaining unit only) and certain non-labor costs. As specified in the Rate Adjustment Mechanism Provision tariff, these adjustments, covering the escalation in costs for 2012 through 2015, are based on bargaining unit wage increases as provided for in the current collective bargaining agreement<sup>11</sup> with labor productivity offsets, plus applicable payroll taxes, and the Gross Domestic Product Price Indicator ("GDPPI") to escalate certain non-labor base expenses. (Refer to Attachment 2, Schedule C of this tariff transmittal.) The 2015 O&M RAM adjustment

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<sup>11</sup> The current collective bargaining Agreement was ratified by the IBEW, Local 1260, on November 1, 2012 and reflects a 3.00% increase effective January 1, 2015, based on January 1, 2013 wage rates.

amount is higher than in 2014 because it covers four years of inflation and wage increases compared to the 2014 filing, which covered those increases for only three years.

Non-bargaining unit labor is not subject to escalation in the RAM. Further, the non-labor cost escalation rate does not apply to any fuel, purchased power, Integrated Resource Planning (“IRP”)/DSM, pension, Other Post-Employment Benefits (“OPEB”), Clean Energy/Renewable Energy Infrastructure or any costs that are subject to recovery through separate rate tracking mechanisms.

#### Rate Base RAM and Depreciation and Amortization RAM

The rate base RAM return on investment adjustment (“Rate Base RAM Adjustment”) totals \$48.0 million, and the depreciation and amortization RAM expense is \$31.1 million. As the Commission ordered in Decision and Order No. 31908 in Docket No. 2013-0141, the Rate Base RAM Adjustment reflects 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.<sup>12</sup>

The \$48.0 million Rate Base RAM Adjustment covers the return for the following investments:

- \$269.3 million in plant investments that went into service in 2014 and are currently serving customers; these included in part the following:
  - \$197.3 million in replacements and upgrades of aging infrastructure for improved reliability (includes transmission structure replacements, spares, preventive and corrective overhead, underground and substation replacements, fuel tank

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<sup>12</sup> See Decision and Order No. 31908, pages 78-79. Also refer to Schedule A of Attachment 2 of this filing for the calculation of the Rate Base RAM Adjustment.

improvements, controls upgrade, feedwater heater replacements and replacement of major combustion turbine components);<sup>13</sup>

- \$34.8 million to serve new loads;
  - \$11.6 million to integrate more renewable generation; and
  - \$9.8 million for environmental, safety, and other compliance.
- \$272.8 million in plant investments that went into service in 2013 and are currently serving customers.
  - \$256.0 million in plant investments that went into service in 2012 and are currently serving customers.
  - \$169.6 million in investments that went into service in 2011 and are currently serving customers. (The 2012, 2013, 2014 and 2015 Rate Base RAM Adjustments include the return on the total actual 2011 plant additions.)
  - \$195.5 million in 2015 baseline (based on a five-year historical average) and major project additions included in the rate base RAM, on a simple average RAM year basis (i.e., one-half of the \$195.5 million, or \$97.8 million, is added to the actual 2014 plant balances in order to estimate the return on rate base).
  - Additional CIP CT-1 and CIS project costs as approved in the Stipulated Settlement, as explained earlier.

These plant additions, which increase the rate base RAM, are partially offset by increases in accumulated depreciation, contributions in aid of construction (“CIAC”) and accumulated deferred income taxes (“ADIT”). The increase in CIAC reflects the actual CIAC as of December 31, 2014, plus a five-year average of the baseline CIAC, plus estimated major project

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<sup>13</sup> Approximately \$116 million was spent for the Company’s Asset Management Program in 2014.

contributions, less amortization of CIAC for 2015. The ADIT continued to increase primarily as a result of accelerated tax deductions taken for bonus depreciation resulting from the Tax Increase Prevention Act of 2014.

The 2015 Rate Base RAM Adjustment (\$48.0 million) is larger than the 2014 Rate Base RAM Adjustment (\$35.5 million) because the 2015 return reflects an aggregation of the 2014 and 2015 plant addition impacts. In the 2014 RAM, the 2014 plant additions were based on the five-year baseline average plus major projects totaling \$192.4 million. The actual 2014 plant additions of \$269.3 million are reflected in the 2015 RAM filing, which is \$76.9 million higher than what was reflected in the 2014 RAM. The related increase in revenue requirement is approximately \$8.0 million,<sup>14</sup> which largely drives the increase in return on rate base compared to 2014.

The use of the five-year average for baseline projects (as specified in the Company's Rate Adjustment Mechanism Provision tariff) during a time when the Company is increasing investment in the island's electrical infrastructure effectively lowers the amount of the rate base RAM. The understatement of \$76.9 million of plant additions in the 2014 RAM resulted in a shortfall of recovery of approximately \$4.0 million.<sup>15</sup> The Company expects that, for the 2015 RAM, the five-year average, net of CIAC, will also understate 2015 baseline capital project additions, net of CIAC, this time by \$67.7 million, resulting in foregone revenues and a lower customer rate of approximately \$3.8 million.<sup>16</sup> The use of the five-year average baseline

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<sup>14</sup> \$8.0 million is equal to  $(\$76.9 \text{ million} - \$1.3 \text{ million associated ADIT} - \$6.4 \text{ million in CIAC}) * 11.74\% \text{ rate of return} * 1.0975 \text{ revenue tax factor} * 90\%$  per Decision and Order No. 31908 in Docket No. 2013-0141.

<sup>15</sup> The revenue requirement impact is  $(\$76.9 \text{ million} - \$1.3 \text{ million associated ADIT} - \$6.4 \text{ million in CIAC}) \div 2 * .1174 * 1.0975 * 90\% = \$4.0 \text{ million}$ . The net plant additions amount is divided by two since the 2014 net plant additions would only be reflected in the end of year rate base balance for the 2014 RAM. For the 2015 RAM, the 2014 net plant additions would be reflected in both the beginning and end of year rate base balance and therefore the 2014 net plant additions would not be divided by two in the revenue requirement calculation.

<sup>16</sup> The five-year average of baseline project plant additions for the 2015 RAM, net of CIAC total \$168.7 million. The Company's projected baseline plant additions, net of CIAC, for 2015 are \$236.4 million. The difference

additions has the effect of delaying recovery of the true return on rate base during a period of growing capital expenditures, but this is a reasonable trade-off for the benefits of the decoupling tariff.

The depreciation and amortization RAM adjustment is primarily due to increases in the depreciable asset base. Depreciable plant in service increased by approximately \$723.6 million from the 2011 rate case to year-end 2014, consisting of \$269.3 million in 2014 plant additions (offset by \$46.2 million in retirements), \$272.8 million in 2013 plant additions (offset by \$36.9 million in retirements), \$256.0 million in 2012 plant additions (offset by \$23.1 million in retirements), and the additional CIP CT-1 cost of \$31.7 million that was not previously included in the 2011 test year rate base. This \$723.6 million increase in depreciable asset base accounts for approximately \$25.9 million of the \$31.1 million 2015 depreciation and amortization RAM adjustment shown in Schedule E.<sup>17</sup>

#### RBA Revenue Adjustment

In total, Hawaiian Electric's 2014 RBA Revenue Adjustment is \$157.4 million – \$63.4 million for the RBA balance for year-end 2014 and \$93.9 million in RAM revenue adjustment for 2015.

### VIII

#### List of Attachments and Schedules

In Attachment 1 of this tariff transmittal, Hawaiian Electric submits its proposed RBA tariff revision reflecting the RBA Rate Adjustment rate in Section E of Tariff Revised Sheet No. 92C. Attachment 1A provides the tariff sheet for the RBA tariff in blackline version.

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between these two numbers is \$67.7 million. The revenue requirement impact is  $(\$67.7 \text{ million} - \$1.9 \text{ associated ADIT}) \div 2 * .1174 * 1.0975 * 90\% = \$3.8 \text{ million}$ .

<sup>17</sup> This is illustrated by applying a composite depreciation rate of 3.26% to the \$723.6 million increase in depreciable asset base, and grossing up for revenue taxes.

Attachment 2 provides the calculation of the RBA Rate Adjustment in the following schedules, along with supporting workpapers:

Schedule A – Determination of 2015 RBA Rate Adjustment (Summary)

Schedule B – Summary of Accumulated Revenue Balancing Account

Schedule B1 - Determination of Target Revenues

Schedule B2 – Determination of Recorded Adjusted Revenues

Schedule C – Determination of Operations and Maintenance (“O&M”) RAM Adjustment

Schedule C1 – Summary of Operations and Maintenance Labor and Non-Labor Expense

Schedule C2 – Non-Labor Exclusion Adjustment of O&M RAM

Schedule D – Determination of Rate Base RAM Adjustment – Return on Investment

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

Schedule D2 – Determination of Baseline Capital Projects Additions

Schedule D3 – Determination of Major Capital Project Additions

Schedule D4 – Determination of Adjusted Recorded Deferred Income Taxes

Schedule E – Determination of Depreciation and Amortization RAM Adjustment

Schedule F – Determination of Change in Deferred Income Taxes

Schedule F1 – Determination of Tax Depreciation

Schedule F2 – Tax Depreciation on Major Capital Projects Additions

Schedule G – CIAC (Contribution In Aid of Construction) Summary

Schedule G1 – Baseline Capital Projects CIAC Additions

Schedule G2 – Major Capital Project CIAC Additions

Schedule G3 – CIAC Amortization

Schedule H – Earnings Sharing Calculations<sup>18</sup>

Schedule I – PUC-Ordered Adjustments

The Hawaiian Electric Companies and the Consumer Advocate jointly developed the format of the schedules in Attachment 2, which the Companies have used for their annual RBA Rate Adjustment submissions since 2012.

WHEREFORE, Hawaiian Electric, consistent with the advance notice required by law, hereby respectfully requests that its proposed revisions to the Revenue Balancing Account Provision tariff be allowed to become effective on June 1, 2015.

DATED: Honolulu, Hawai'i, March 31, 2015.

HAWAIIAN ELECTRIC COMPANY, INC.

By: 

Joseph P. Viola

Vice President, Regulatory Affairs

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<sup>18</sup> The Company has provided its calculated ratemaking Return on Equity ("ROE") for year 2014 in Schedule H as required by the Commission in its *Final Decision and Order* in the decoupling proceeding (Docket No. 2008-0274) on August 31, 2010.



# ATTACHMENT 1

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 ..... 2.2830 ¢/kWh

F. NOTICE

HAWAIIAN ELECTRIC COMPANY, INC.

Transmittal Letter dated March 31, 2015.

# ATTACHMENT 1A

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~~2016  
RBA Rate Adjustment

| All Rate Schedules ..... ~~2.1269~~2830 ¢/kWh


F. NOTICE

HAWAIIAN ELECTRIC COMPANY, INC.

| Transmittal Letter dated ~~May 22, 2014~~March 31, 2015.

## ATTESTATION

Tayne S. Y. Sekimura, is the Senior Vice President & Chief Financial Officer of Hawaiian Electric Company, Inc., and says that she certifies that the attached Schedules supporting the proposed changes in customer rates pursuant to the Revenue Balancing Account ("RBA") Provision have been prepared in compliance with the Rate Adjustment Mechanism Provision and the RBA Provision, and prior Commission rate orders are true, correct and complete to the best of her knowledge and belief.



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Tayne S. Y. Sekimura

Attachment 2 – List of Schedules and Workpapers

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

**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)
<b><u>RECONCILIATION OF RBA BALANCE:</u></b>				
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
<b><u>RATE ADJUSTMENT MECHANISM "RAM" AMOUNT:</u></b>				
4	O&M RAM	Schedule C	\$ 14,746,949	
5	Rate Base RAM - Return on Investment	Note (2)	\$ 48,033,114	
6	Depreciation & Amortization RAM Expense	Schedule E	\$ 31,142,599	
7	Total RAM Revenue Adjustment			\$ 93,922,662
8	<b><u>EARNINGS SHARING REVENUE CREDITS - 2014 ROE:</u></b>	Schedule H		\$ -
9	<b><u>PUC-ORDERED MAJOR OR BASELINE CAPITAL PROJECTS CREDITS:</u></b>	Schedule I		
10	TOTAL RBA REVENUE ADJUSTMENT	Sum Col. (d)		\$ 157,362,605
11	GWH SALES VOLUME ESTIMATE JUNE 2015 - MAY 2016 (see HECO-WP-A-001)			6,892.800
12	RBA RATE ADJUSTMENT - cents per kWh	Note (1)		<u>2.2830</u>
13	MONTHLY BILL IMPACT @ 600 KWH			<u>\$13.70</u>

Note (1): 2015 RBA Rate Adjustment Breakdown

	Col. (d)	Rate Adjustment cents per kWh	Percentage Share
RBA Balance	\$ 63,439,943	0.92037985	40.3145%
RAM Amount	\$ 93,922,662	1.36261987	59.6855%
Earnings Sharing Revenue Credits	\$ -	0.00000000	0.0000%
Major or Baseline Capital Projects Credits	\$ -	0.00000000	0.0000%
	<u>\$ 157,362,605</u>	<u>2.28299972</u>	<u>100.0000%</u>

Note (2): Rate Base RAM - Return on Investment

Rate Base RAM Return on Investment - Current Year (2015)	Schedule D HECO 5/22/14 Decoupling Filing, Sch D	a	\$ 49,227,808
Rate Base RAM Return on Investment - Prior Year (2014)		b	<u>\$ 37,280,861</u>
Rate Base RAM Return on Investment - Current Year (2015) Incremental See Docket No. 2013-0141, D&O 31908, page 49, filed on 2/7/14		c = a - b d	<u>\$ 11,946,947</u> 90%
Rate Base RAM Return on Investment -90% of Current Year (2015) Incremental		e = c x d	\$ 10,752,253
Rate Base RAM Return on Investment - Prior Year (2014)		b	<u>\$ 37,280,861</u>
Rate Base RAM Return on Investment Prior Year + 90% of Current Year Incremental		f = e + b	<u>\$ 48,033,114</u>

**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. BA)										
1	2013 December	\$ 68,080,670	\$ 45,001,122	\$ 41,178,802	\$ 3,822,320	\$ (4,255,258)	\$ 150,274	n/a	\$ 330,072	\$ 68,128,079
2	January 2014 Adjustment - Note (1)									
3	REVISED 2013 December									
4										\$ 58,927
5	2014 January	\$ 68,128,079	\$ 44,129,429	\$ 40,155,441	\$ 3,973,988	\$ (3,925,516)	\$ 58,927	n/a	\$ 331,046	\$ 68,564,524
6	February	\$ 68,564,524	\$ 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	\$ (3,910,640)	\$ 17,878	n/a	\$ 94,378	\$ 64,697,989
8	April	\$ 64,697,989	\$ 42,712,926	\$ 39,888,701	\$ 2,824,226	\$ (3,873,501)	\$ 2,887	n/a	\$ 83,590	\$ 63,745,193
9	May	\$ 63,745,193	\$ 45,981,776	\$ 41,326,526	\$ 4,655,250	\$ (4,180,513)	\$ (84,319)	\$ 39,041,545	\$ 58,938	\$ 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	\$ 64,189,163
11	July	\$ 64,189,163	\$ 50,451,219	\$ 45,900,584	\$ 4,550,635	\$ (5,856,735)	\$ -	\$ 38,789,775	\$ 56,588	\$ 62,649,831
12	August	\$ 62,649,831	\$ 52,004,449	\$ 46,583,655	\$ 5,440,794	\$ (6,117,873)	\$ 11,211	\$ 38,194,875	\$ 55,701	\$ 62,239,464
13	September	\$ 62,239,464	\$ 49,933,476	\$ 45,456,899	\$ 4,476,777	\$ (6,024,188)	\$ 27,963	\$ 37,566,514	\$ 54,785	\$ 60,774,801
14	October	\$ 60,774,801	\$ 50,508,746	\$ 48,193,856	\$ 4,314,890	\$ (6,133,238)	\$ 73,457	\$ 38,616,787	\$ 53,399	\$ 59,083,311
15	November	\$ 59,083,311	\$ 47,517,340	\$ 43,033,461	\$ 4,483,879	\$ (5,514,770)	\$ 122,490	\$ 35,853,938	\$ 52,287	\$ 58,227,197
16	December	\$ 58,227,197	\$ 47,517,340	\$ 42,808,961	\$ 4,708,379	\$ (5,430,235)	\$ 227,834	\$ 35,488,687	\$ 51,756	\$ 57,784,931
17	January 2015 Adjustment - Note (1)									
18	February 2015 Adjustment - Note (1)									
19	REVISED 2014 December									
20										\$ 6,838
21	2015 January	\$ -	\$ 48,596,907	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
22	February	\$ -	\$ 41,764,635	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
23	March	\$ -	\$ 46,596,907	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
24	April	\$ -	\$ 45,101,204	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
25	May	\$ -	\$ 48,552,827	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
26	June	\$ -	\$ 50,829,223	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	July	\$ -	\$ 52,422,466	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	August	\$ -	\$ 54,036,385	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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) 1.836929121 (l)  
(See HECO-WP-F-001)

Note (1): Adjustment Summary:

Year	Month	Workpaper Reference	RBA True-up Adjustment Sch B2, Line 1B	RBA Interest Adjustments	Total Adjustment	Adjustment Description
2014	January	HECO-WP-B-002	55,522	1,405	58,927	Adj. for out of period billing adjustments
2014	March	HECO-WP-B-003	17,878	-	17,878	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	6,838	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 balance. 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 26, 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 (e)	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	Last 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 \$ (158,905)	\$ (158,905)	\$ (158,905)	\$ (158,905)	\$ (158,905)	\$ (158,905)
5	Last 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	Sch. A, Line 7	\$000s \$ -	\$ -	\$ -	\$ -	\$ 93,823	\$ 93,823
13	Less: Revenue Taxes on Line 12 at 8.885%		\$000s \$ -	\$ -	\$ -	\$ -	\$ (8,345)	\$ (8,345)
14	Net RAM Adjustment - Test Year +4	Lines 12+13	\$000s \$ -	\$ -	\$ -	\$ -	\$ 85,578	\$ 85,578
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 9	\$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)					\$ 597,748	\$ 597,748
23	Distribution of Target Revenues by Month:	Note (4)						
24	January	8.10%		\$44,129,429		\$46,596,907		\$48,417,557
25	February	7.26%		\$39,553,044		\$41,784,635		\$43,398,477
26	March	8.10%		\$44,129,429		\$46,596,907		\$48,417,557
27	April	7.84%		\$42,712,929		\$45,101,204		\$46,863,413
28	May	8.44%		\$45,981,778		\$48,552,827		\$50,449,899
29	June- effective date of RAM Change	8.47%	\$46,145,218		\$48,725,408		\$50,629,223	
30	July	8.77%	\$47,779,642		\$50,451,219		\$52,422,466	
31	August	9.04%	\$49,250,622		\$52,004,449		\$54,036,385	
32	September	8.68%	\$47,289,315		\$49,833,476		\$51,864,493	
33	October	8.78%	\$47,834,122		\$50,508,746		\$52,482,241	
34	November	8.26%	\$45,001,122		\$47,517,340		\$49,373,953	
35	December	8.25%	\$45,001,122		\$47,517,340		\$49,373,953	
36	Total Distributed Target Revenues	100.00%	\$328,301,163	\$216,506,607	\$346,657,978	\$228,612,480	\$360,202,714	\$237,544,903

Footnotes:

- Docket No. 2010-0080 amounts derived from Order No. 30576, filed August 9, 2012, effective September 1, 2012, which implemented Decision and Order No. 30505, Exhibit A, page 1, filed June 29, 2012.
- Transmittal 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	\$ 139,463		\$ 139,463	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)						\$	<u>14,747</u>

**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<sup>A</sup> (47.14% \* 8,905) \$ (4,197)  
 Payroll Taxes related to Bargaining Unit labor \$ 4,708

<sup>A</sup> 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
<b>Labor Cost Escalation Rate</b>	<b>1.70%</b>	<b>2.12%</b>	<b>2.24%</b>	<b>2.15%</b>	

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	<u>1.0215</u>	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	<u>1.0110</u>	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	<u>0.02500</u>
<b>Total Revenue Tax Rate</b>	<b>0.08885</b>

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	<b>Operation and Maintenance</b>	<b>51,224</b>	<b>45,690</b>	<b>96,913</b>	<b>161,489</b>	<b>258,402</b>

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
<b>TOTAL</b>	<b>51,557</b>	<b>46,467</b>	<b>63</b>	<b>46,530</b>	<b>98,087</b>
% 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		
14	for O&M RAM base	22,026	
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		
21	O&M RAM base	<u>139,463</u>	

**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	<b>PUC APPROVED CAPITAL STRUCTURE &amp; COSTS (Note (2)):</b>						
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)						<u>\$ 382,066</u>
9	PRETAX RATE OF RETURN (Line 7, Col g)						<u>11.74%</u>
10	PRETAX RETURN REQUIREMENT						<u>\$ 44,854.5</u>
11	REVENUE TAX FACTOR (1/(1-8.885%))						<u>1.0975</u>
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 (a)	HECO 2011 Test Year Rate Base (Note 2)		HECO 2015 RAM Rate Base		
		Beg. 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	\$ 2,286,362	\$ 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	64,246			
6	Unamort EOTP 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	\$ 1,802,566	\$ 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)	(436,608)	(2,637)	(439,245)
20	Unamortized State ITC (Gross)	(32,171)	(35,088)			
21	Unamortized Gain on Sale	(800)	(518)			
22	Pension Reg Liability	(3,996)	(2,522)			
23	OPEB Reg Liability	(6,376)	(8,749)			
24	Total Deductions	\$ (458,614)	\$ (539,577)	\$ (778,223)	\$ (25,810)	\$ (805,033)
25	Working Cash	21,047	21,047	21,047	Not Updated	21,047
26	Rate Base at Proposed Rates	\$ 1,364,999	\$ 1,406,603	\$ 1,745,388		\$ 1,790,405
27	Average Rate Base		\$ 1,385,831			\$ 1,767,897
28	Change in Rate Base					\$ 382,068

Column (e) Projected Changes to Rate Base	Reference	Amount \$000
Plant - Baseline Capital Project Additions	Schedule D2	194,492
Major Project Additions	Schedule D3	1,029
Accumulated Depreciation/Amortization Change	Schedule E	(122,522)
Net Plant	Sum: Lines 30-32	73,000
Accum. Deferred Income Taxes - Baseline and Major Capital Projects	Schedule F	(2,937)
Projected CIAC Additions - Baseline	Schedule G	(25,797)
Projected CIAC Additions - Major CIP	Schedule G2	(3,847)
Less: Amortization of CIAC	Schedule G	6,771
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	\$ (1,269,062)	\$ (283,740)	\$ (437,905)
[A] Add: Asset Retirement Obligation		\$ (28,954)		
[A] Reg Liab-Cost of Removal (net salvage)		\$ (227,390)		
<b>Major Project Adjustments:</b>	HECO-WP-D2-001	HECO-WP-E-001		HECO-WP-D4-002
Waiau 8 Boiler Cts Upgrade	(1,074)	62		217
Waiau 8 Main Transformer Replace	(243)	20		48
Kahuku Wind Power	(7)	6		1
W7 Controls Upgrade	(424)	11		81
Kakaako Makai-Iwilei	(3,518)	152		832
Kakaako Makai-Kewalo/DOOT Queen-Cook	(1,737)			318
Tenant Improvement Allowance (Sch E)	(12,894)	5,158		
Total Adjustments	\$ (19,898)	\$ 5,409	\$ -	\$ 1,297
Adjusted Balance	\$ 3,806,359	\$ (1,519,697)	\$ (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
Kalo Substation Land	(2,276) Schedule D2; Amount transferred in 2013
Kappolei Substation	(6) 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	<b>Total Plant Additions</b>			<b>170,051,118</b>	<b>169,825,057</b>	<b>255,978,908</b>	<b>272,820,344</b>	<b>269,328,250</b>
2								
3	<b>Less Major Projects: (+\$2.5 Million)</b>	<b>Dkt No.</b>	<b>Item No.</b>					
4								
5	<b>2005 In-service:</b>							
6	New Dispatch Center	03-0360	Y00030	(914)				
7								
8	<b>2007 In-service:</b>							
9	Kahe 3 Boiler Controls Upgrade	02-0208	P9539000	(24,522)				
10								
11	<b>2008 In-service:</b>							
12	KoOlina Substation	05-0056	Y00044					
13	CIP Generating Unit	05-0145	Y49000	(1,693,198)	(207,519)		(1,809,875)	
14	Air Quality Monitoring Station	05-0148	P0001170	(361,926)	198,549			
15								
16	<b>2009 In-service:</b>							
17	CIP0 Kahe RO Water Project	05-0146	P0001169	(373,480)	55,867			
18	Barbers Point Fuel Oil Tank	2007-0409	P0001534					
19	Whitmore Substation	2008-0132	P0001390	(212,825)				
20								
21	<b>2010 In-Service:</b>							
22	Beckoning Point 46kv Line Ext	2008-0321	P0001497	(1,506,538)	(8,796)			
23	Beckoning Point Substation - NOTE (1)	2008-0321	P0001498	(948,191)	(575)			
24	Kamoku 46kv UG All Ph 1 (EOTP)	03-0417	Y48500	(58,502,483)	(210,956)	(69)		
25	K3 Biofuel Co-Firing	2009-0155	P0001577	(4,957,351)	(303,872)		(4,608)	
26	Kahuku Wind Power - NOTE (3)	2009-0176		NA	NA	NA	NA	NA
27								
28	<b>2011 In-Service:</b>							
29	W8 Boiler Controls Upgrade	2007-0365	P7650000		(8,165,261)	(118,480)	(45,384)	
30	EOTP Ph. 2 (Subs/Switch Stations)	2010-0062	Y48500		(8,070,051)	(6,807,578)	(184,448)	(7,357)
31	W7 Controls Upgrade	2009-0195	P7590000		(5,009,888)	(119,081)	(308,336)	(8,237)
32	W8 Main Transformer Replace		P0001399		(2,627,959)	(19,800)	47,320	18,503
33								
34	<b>2012 In-Service:</b>							
35	K1 Condenser Tube Replace	2010-0126	P0000681			(4,910,700)	(1,850)	
36	BPT Tank 132 Improvements	2010-0286	P0000899			(5,513,984)	(547)	
37	Mobile Radio Replacement	2010-0162	P0001595			(2,502,181)	(61,573)	
38	Kapolei Substation	2011-0028	Y00127			(8,217,064)	(780,700)	(6,459)
39								
40	<b>2013 In-Service:</b>							
41	Pukele 80MVA Tsf #3	2011-0156	P0001494				(4,299,560)	(28,327)
42	Kakaako Makai-iwilei 25kv DL	2009-0042	Y00038				(6,661,331)	(485,650)
43	Kaloi Substation - Land	2008-0070	Y00119				(2,276,439)	
44	North South Road 46kv Line	2008-0070	Y00119				(2,099,046)	
45								
46	<b>2014 In-Service:</b>							
47	Kaloi Substation	2008-0070	Y00119					(6,548,755)
48	Kaloi Sub 46kv & 12kv Distr	2008-0070	Y00119					(1,218,895)
49	Kaloi Telecomm	2008-0070	Y00119					(171,237)
50	Kaloi Sub 12kv Work	2008-0070	Y00119					(25,906)
51	Kakaako Makai-Kewalo 25kv DL	2009-0042	Y00038					(4,958,840)
52	Kakaako Makai DOT Queen-Cook	2009-0042	Y00038					(1,961,600)
53	BPT Tank 133 Improvements	2010-0318	P0000900					(6,095,787)
54	Pukele 80MVA Tsf #2	2011-0156	P0001492					(3,449,859)
55	DOT Airport DSG	2008-0329	P0001370					(4,965,396)
56								
57	<b>Total Net Plant Additions (excluding major projects)</b>			<b>101,469,889</b>	<b>147,274,898</b>	<b>228,969,991</b>	<b>254,333,967</b>	<b>239,412,448</b>
58								
59	<b>Last Five-Year Average</b>							<b>\$ 194,492,138</b>

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. 2007-0418, 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	<b>Total Major Capital Projects Qualifying for 2015 RAM (See HECO-WP-D3-001)</b>			<b>\$ 1,029,286</b>

See Schedule G2 for related CIAC (if applicable)

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

<u>Line No.</u>	<u>NARUC Account</u> (a)	<u>Reference</u> (b)	<u>DR/(CR)</u> Federal ADIT (c)	<u>DR/(CR)</u> State ADIT (d)	<u>DR/(CR)</u> 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 RRM 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	<b>Depreciable Plant</b>					
2	311	89,072,912		89,072,912	0.01600	1,425,167
3	312	389,276,855	(1,498,568)	387,778,289	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	0.03260	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	865,981
13	Tot - Gas Turb	181,659,332	-	181,659,332	0.02192	3,982,101
14						
15	Tot - Prod	895,988,154	(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	147,876,382		147,876,382	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	24,476,393		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	(10,748)	241,880,519	0.02190	5,297,183
34	367	376,113,270	(4,843,482)	371,269,788	0.04980	18,489,235
35	368	205,094,071	(336,839)	204,757,232	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	35,282,482		35,282,482	0.02660	637,981
39	Tot - Distr	1,836,150,276	(5,256,200)	1,830,894,076	0.03741	61,200,504
40						
41	Tot - T & D	2,526,398,674	(5,256,200)	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	(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	0.15082	330,191
50	3902 (Waterhouse)	1,517,450		1,517,450	0.42522	645,250
51	3902 (Hon CI)	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	3,098,642
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 Depreciable/Amort. Balance (Footnote 3) (b)	Adjustments (Footnote 1) (c)	Adjusted Depreciable/Amort. Balance (d)	PUC Approved Accrual Rate (e)	Annual Accrual (f)
60	<b>Amortizable Plant</b>					
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					\$ 122,521,735
90	LESS: Vehicle Depreciation (A/C 392 above)					\$ (3,098,642)
91	LESS: Depreciation & Amortization in Current Revenues				Footnote 2	\$ (94,237,000)
92						
93	RAM Adjustment for Depreciation & Amortization					\$ 25,186,093
94	RAM Adjustment for CIAC Amortization				Sch. G	\$ 1,015,862
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					\$ 28,375,945
98	Times: Factor for Revenue Taxes					1.09750
99						
100	RAM DEPRECIATION & AMORTIZATION					\$ 31,142,599

Footnotes:

1	Amounts are recorded (in \$000s), except for the following adjustments (see HECO-WP-D2-001):	Plant in Service From D1
	Waiau B Boiler Ctl's Upgrade	\$ (1,074)
	Waiau B 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*:	Depr/Amort Expense
	Total Depreciation	\$ 97,297,000
	LESS: Vehicle Depreciation (A/C 392)	(2,292,000)
	LESS: CIP CT-1 excess depreciation	(603,000)
	LESS: EOTTP excess depreciation	(1,171,000)
	ADD: Revised EOTTP 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 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 EOTTP 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 COMPANY, INC.**  
**DECOUPLING CALCULATION WORKBOOK**  
**DETERMINATION OF CHANGE IN DEFERRED INCOME TAXES**

Line No.	NARUC Account (a)	Reference (b)	Projected ADIT Change (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	<i>Federal Deferred Tax Adjustment</i>		-
9	Total Federal Deferred Taxes		<u><u>2,482,763</u></u>
<b>STATE DEFERRED TAXES</b>			
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-F-922		TOTAL (d)	PROJECTS (e)	PROGRAMS (f)	TOTAL (g)	BASIS	FED YR 1 TAX RATE	STATE YR 1 TAX RATE	FED YR 1 TAX DEPR	STATE YR 1 TAX DEPR
		PROJECTS (b)	PROGRAMS (c)									
1	Computers/PV	5	836	4,698	5,534	0.43%	2.42%	2,855	20.00%	20.00%	944,597	944,597
2	Communication	20	2,045	1,393	3,438	1.05%	0.72%	1,776	14.29%	14.29%	739,089	739,089
3	OT/Furn/Tools	7	2,546	3,506	6,052	1.31%	1.80%	3,111	5.00%	5.00%	1,312,519	1,312,519
4	Distribution	20	22,639	68,906	89,542	11.64%	34.40%	46,044	3.75%	3.75%	4,481,311	4,481,311
5	Land	-	1,298	1,446	1,446	0.67%	0.08%	0.74%	1.177%	1.177%	31,461	31,461
6	Non-Steam Production	15	2,485	2,485	2,485	1.28%	0.00%	1.28%	-	-	-	-
7	Steam Production	20	26,986	3,183	30,149	13.86%	1.64%	15.50%	-	-	-	-
8	Structural	39	2,789	353	3,132	1.42%	0.19%	1.61%	-	-	-	-
9	Transmission	20	8,623	8,270	16,893	4.43%	4.23%	8.69%	-	-	-	-
10	Transmission	15	18,904	9,459	28,263	9.67%	4.86%	14.53%	-	-	-	-
11	Vehicles	-	7,548	7,548	7,548	0.00%	3.88%	3.88%	-	-	-	-
12	TOTAL		88,016	105,476	194,492	45.77%	54.23%	100.00%				
<p>NOTE (1) Basis subject to 50% bonus depreciation: 0.00%</p> <p>Vintage 2014 - 50% Bonus Depreciation</p> <p>Basis subject to regular depreciation: 0.00%</p> <p>Vintage 2014 - Regular Depreciation</p> <p>(Total less amounts subject to 50% bonus)</p>												
<p>Net Depreciable Baseline Plant Adds</p> <p>Major Capital Projects from Schedule F2</p> <p>Total Depreciable Plant Adds</p> <p>Reconciliation from Baseline Plant Adds to Net Depreciable Plant Adds:</p> <p>Baseline Capital Projects Plant Adds (rounded) 194,492,000 Schedule D2</p> <p>Less: Repairs deduction HECO-WP-F1-001 Page 1 28,503,010 &lt;&lt; supported by Special Study each year.</p> <p>Net Plant add basis 165,988,990</p> <p>Less: Land and Vehicles (4.62% x 165,988,990) 7,675,920</p> <p>Net Depreciable Baseline Plant Adds 158,313,070</p>												
<p>NOTE (2) The numbers in columns b, c, d are rounded to the nearest thousand.</p> <p>NOTE (3) A new line was created for Transmission - 15 year property.</p>												

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

Line No.	Description	PUC Docket	Estimated In Service Date	Amount		
	(a)	(b)	(c)	(d)	(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%	35,526	3.75%	35,526
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	6,771,148	\$ (6,771,148)
10				
11	<b>12/31/15 Ending Balance</b>		<b><u>\$ (306,612,430)</u></b>	(6,771,148)
12				
13	LESS: CIAC Amortization in Current Revenues - NOTE (1)			<u>(7,787,000)</u>
14				
15	<b>RAM Adjustment for CIAC Amortization</b>			<b><u>\$ 1,015,852</u></b>

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 (a)	2/22/2011	3/30/2012	2/19/2013	2/21/2014	2/26/2015
		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)	(258,084,169)
2	Less: CIAC Amortization (Dec Rpt. pg 2)	9,614,759	7,786,488	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	283,739,680
4						
5	<b>Total CIAC Additions</b>	<b>19,344,168</b>	<b>23,267,210</b>	<b>38,610,673</b>	<b>26,226,977</b>	<b>31,803,060</b>
6						
7	<u>Less Major Projects:</u>					
8		<u>Dkt No.</u>	<u>Item No.</u>			
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	02-0208	P8539000			
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
31						
32	<u>2011 In-Service:</u>					
33	W8 Boiler Controls Upgrade	2007-0365	P7850000			
34	EOTP Ph. 2 (Subs/Switch Stations)	2010-0062	Y48500	(61,977)	(2,750,528)	(2,157,239)
35	W7 Controls Upgrade	2009-0195	P7590000			(87,994)
36	W8 Main Transformer Replace		P0001399			(43,725)
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-wilei 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	<b>Total Net CIAC Additions</b>	<b>19,282,191</b>	<b>18,623,682</b>	<b>34,276,436</b>	<b>26,138,983</b>	<b>31,769,326</b>
62						
63	<b>Last Five-Year Average</b>					<b>25,788,723</b>

**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. 2007-0416, 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	<b>Total Major Project CIAC Additions for 2015 RAM (See HECO-WP-G2-001)</b>			<b><u>\$ 3,847,195</u></b>

*See Schedule D3 for related plant additions.*

**HAWAIIAN ELECTRIC COMPANY, INC.**  
**DECOUPLING CALCULATION WORKBOOK**  
**CIAC AMORTIZATION**

Line No.	Description (a)	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	107,028	5,351	101,675	5,351		
4	1983	222,585	10,599	211,986	10,599		
5	1984	227,957	10,382	217,565	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	8,219,730	200,637	8,019,093	200,637		
16	1994	4,582,804	143,525	4,449,279	143,525		
17	1995	3,558,338	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	3,528,723	85,317	3,443,406	85,317		
22	2000	2,373,215	62,453	2,310,762	62,453		
23	2001	2,897,391	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	76,376	3,131,407	76,376		
27	2005	10,682,767	248,436	10,434,331	248,436		
28	2006	9,191,248	208,892	8,982,356	208,892		
29	2007	9,766,150	217,026	9,549,124	217,026		
30	2008	8,993,069	195,502	8,797,567	195,502		
31	2009	7,262,800	154,523	7,108,277	154,523		
32	2010	13,585,289	283,026	13,302,263	283,026		
33	2011	17,464,999	356,429	17,108,570	356,429		
34	2012	34,332,459	686,649	33,645,810	686,649		
35	2013	22,586,143	442,866	22,143,277	442,866		
36	2014			30,766,315	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	(80,280)	(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	(530,631)	(12,060)	(518,571)	(12,060)		
51	-adj 07 GET	(427,305)	(9,496)	(417,809)	(9,496)		
52	-adj 08 GET	(348,417)	(7,596)	(341,821)	(7,596)		
53	-adj 09 GET	(324,881)	(6,912)	(317,969)	(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	(528,938)	(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	15,585	435,806	15,585		
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	1,826,180	57,068	1,769,092	57,068		
69	1995	3,869,774	111,205	3,558,569	111,205		
70	1996	1,909,280	58,155	1,851,125	58,155		
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	82,636	3,057,519	82,636		
75	2001	1,305,910	33,485	1,272,425	33,485		
76	2002	2,859,935	71,498	2,788,437	71,498		
77	2003	4,336,068	105,758	4,230,310	105,758		
78	2004	2,662,899	63,402	2,599,497	63,402		
79	2005	4,546,833	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	2,217,670	47,191	2,170,479	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			1,738,067	34,080		
89							
90	Total CIAC Amortization for 2015 RAM	\$ 258,084,168	\$ 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	1.05%	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%		<u>7.84%</u>
11	Line 3 Rate Base Amount				\$ 1,756,212	
12	Weighted Cost of Debt (Sum Lines 5-7)				<u>2.20%</u>	
13	Synchronized Interest Expense				\$ 38,637	
	Income Tax Factor (Note 1)				<u>1.636929121</u>	
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)					<u>1,054</u>
18	Income Available for Common Stock					\$ 96,594
19	Ratemaking Equity Investment (Line 9 Ratio times Rate Base)					<u>980,224</u>
20	Return on Equity for Decoupling Earnings Sharing (Line 18/Line 19)					<u>9.85%</u>
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)		<u>1,000</u>			
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		<u>25%</u>	<u>50%</u>	<u>90%</u>	
28	Ratepayer Earnings Share - Basis Points		-	-	-	-
29	Revenue Credit per Basis Point (Note 2)					<u>\$ 176</u>
30	Earnings Sharing Revenue Credits (thousands)					<u>\$ -</u>

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)	\$ 180
	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.

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	46,145,216	47,779,642	48,250,622	47,289,315	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	41,908,165	42,572,492	40,870,690	41,178,802
L3 Target vs. Actual Revenue	1,880,528	3,416,305	5,854,231	4,940,879	5,570,610	5,380,150	5,261,630	4,130,432	3,822,320
L4 Reversal of Previous Year Accrual	(1,493,978)	(1,586,384)	(4,107,427)	(4,426,857)	(4,465,163)	(4,277,405)	(4,415,078)	(4,102,803)	(4,255,258)
L5 Net RBA Change	386,550	1,829,921	1,746,804	514,022	1,105,447	1,102,745	846,552	27,629	(432,938)
L6 Beginning RBA Balance	56,053,424	56,721,208	58,835,649	60,913,594	61,546,805	63,126,184	64,532,840	65,724,351	66,230,945
L7 End Balance Before Interest	56,439,974	56,549,129	60,582,453	61,427,616	62,652,252	64,226,909	65,399,392	65,751,980	65,798,007
L8 (L6 + L7) + 2	56,246,699	57,635,169	59,709,051	61,170,605	62,099,528	63,677,537	64,978,116	65,738,165	66,014,476
L9 Interest	281,233	288,176	298,545	305,853	310,488	318,388	324,881	328,691	330,072
L10 L7 + L9	56,721,208	58,637,305	60,899,999	61,733,470	62,962,750	64,547,297	65,724,273	66,080,871	66,128,079

	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
Target vs Actual Difference:									
Recorded Adjusted Revenues - Unadjusted	38,772,031	40,347,419	40,290,987	42,838,763	43,680,012	41,908,165	42,572,492	40,870,690	41,178,802
Billing Adjustments	(6,954)	(6,855)	(6,954)	(7,054)	(6,954)	(7,005)	(6,791)	(7,004)	(7,004)
Revised Revenues	38,765,077	40,340,564	40,284,033	42,831,758	43,673,058	41,902,160	42,565,701	40,863,686	41,178,802
Target	40,652,559	43,763,724	46,145,216	47,779,642	48,250,622	47,289,315	47,834,122	45,001,122	45,001,122
Total Billing Adjustment	1,887,482	3,423,160	5,861,185	4,947,884	5,577,564	5,387,155	5,268,421	4,137,436	3,822,320

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	46,145,216	47,779,642	48,250,622	47,289,315	47,834,122	45,001,122	45,001,122
L2 Recorded Adjusted Revenue	38,765,077	40,340,564	40,284,033	42,831,758	43,673,058	41,902,160	42,565,701	40,863,686	41,178,802
L3 Target vs. Actual Revenue	1,887,482	3,423,160	5,861,185	4,947,884	5,577,564	5,387,155	5,268,421	4,137,436	3,822,320
L4 Reversal of Previous Year Accrual	(1,493,978)	(1,586,384)	(4,107,427)	(4,426,857)	(4,465,163)	(4,277,405)	(4,415,078)	(4,102,803)	(4,255,258)
L5 Net RBA Change	393,504	1,834,776	1,753,758	521,027	1,112,401	1,109,750	853,343	34,633	(432,938)
L6 Beginning RBA Balance	56,053,424	56,728,179	58,849,527	60,934,512	61,574,849	63,161,319	64,585,193	65,773,723	66,287,585
L7 End Balance Before Interest	56,448,928	56,562,959	60,603,285	61,435,539	62,667,250	64,271,069	65,448,538	65,808,356	65,854,647
L8 (L6 + L7) + 2	56,250,176	57,645,567	59,726,406	61,195,029	62,131,050	63,716,194	65,021,865	65,791,040	66,071,116
L9 Interest	281,251	288,228	298,532	305,875	310,655	318,581	325,109	328,955	330,356
L10 L7 + L9	56,728,179	58,851,183	60,901,917	61,761,514	62,987,905	64,589,650	65,773,645	66,137,311	66,185,003
Revised Adjustment to Revenue	1,887,482	3,423,160	5,861,185	4,947,884	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	4,940,879	5,570,610	5,380,150	5,261,630	4,130,432	3,822,320
Adjustment to Revenue	6,954	6,855	6,954	7,005	6,954	7,005	6,791	7,004	7,004
Revised Interest	281,251	288,228	298,532	305,875	310,655	318,581	325,109	328,955	330,356
Interest Recorded	281,233	288,176	298,545	305,853	310,488	318,388	324,881	328,691	330,072
Adjustment to Interest	18	52	87	122	157	193	228	264	264
Total Interest Adjustment									1,405
Total RBA Adjustment									55,522

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	35,681,973	37,812,917	39,046,559	41,350,321	45,898,046	44,070,248	44,577,970	41,937,817	41,937,817	41,125,462	36,860,599
L2 Recorded Adjusted Revenue	37,206,214	35,823,429	37,102,931	38,409,569	38,728,938	38,485,482	38,385,130	38,799,920	36,574,222	39,361,425	39,527,599	37,356,068
L3 Target vs. Actual Revenue	(753,474)	(141,456)	709,986	2,636,970	2,621,363	7,412,564	5,685,118	5,778,050	5,363,595	1,976,392	1,597,863	(485,469)
L4 Reversal of Previous Year Accrual	(753,474)	(141,456)	709,986	2,636,970	2,621,363	7,412,564	5,685,118	5,778,050	5,363,595	1,976,392	1,597,863	(485,469)
L5 Net RBA Change	(753,474)	(141,456)	709,986	2,636,970	2,621,363	7,412,564	5,685,118	5,778,050	5,363,595	1,976,392	1,597,863	(485,469)
L6 Beginning RBA Balance	(753,474)	(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
L7 End Balance Before Interest	(376,737)	(907,782)	(628,055)	1,042,283	3,676,672	6,712,028	15,288,531	21,098,558	26,717,201	19,683,630	21,571,236	22,238,319
L8 (L6 + L7) + 2 or (L6 + L7) + 2 - [1]	(1,884)	(4,538)	(3,140)	5,211	18,383	43,560	76,443	105,483	133,586	98,468	107,886	111,192
L9 L8 x (6% or 1.75%) + 12	(753,358)	(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
L10 L7 + L9	37,206,214	35,823,429	37,102,931	36,409,569	38,728,938	38,485,482	38,385,130	38,799,920	36,574,222	39,361,425	39,527,599	37,356,068
Target vs Actual Difference:	(182)	(174)	(184)	(165)	(153)	(154)	(156)	(184)	(179)	(180)	(170)	(176)
Recorded Adjusted Revenues - Unadjusted	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	39,361,245	39,527,429	37,355,892
Billing Adjustments	36,452,740	35,681,973	37,812,917	39,046,559	41,350,321	45,898,046	44,070,248	44,577,970	41,937,817	41,937,817	41,125,462	36,860,599
Revised Revenues	(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	(485,293)
Target												

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	35,681,973	37,812,917	39,046,559	41,350,321	45,898,046	44,070,248	44,577,970	41,937,817	41,937,817	41,125,462	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	39,361,245	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	(485,293)
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	(485,293)
L5 Net RBA Change	(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	(485,293)
L6 Beginning RBA Balance	(836,871)	(982,691)	(275,659)	2,366,691	5,006,614	12,446,999	18,206,721	24,038,761	18,706,978	20,782,026	22,487,964	22,192,671
L7 End Balance Before Interest	(376,646)	(907,512)	(627,606)	1,042,909	3,677,459	6,712,873	15,289,636	21,097,828	26,718,648	19,695,284	21,581,043	22,240,318
L8 (L6 + L7) + 2 or (L6 + L7) + 2 - [1]	(1,883)	(4,538)	(3,138)	5,215	18,387	43,565	76,448	105,489	133,593	98,478	107,905	111,202
L9 L8 x (6% or 1.75%) + 12	(753,175)	(982,691)	(275,659)	2,366,691	5,006,614	12,462,897	18,208,721	24,092,424	29,534,128	20,782,026	22,487,964	22,103,873
L10 L7 + L9	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	39,361,245	39,527,429	37,355,892
Target vs Actual Difference:	(182)	(174)	(184)	(165)	(153)	(154)	(156)	(184)	(179)	(180)	(170)	(176)
Recorded Adjusted Revenues - Unadjusted	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	39,361,245	39,527,429	37,355,892
Billing Adjustments	36,452,740	35,681,973	37,812,917	39,046,559	41,350,321	45,898,046	44,070,248	44,577,970	41,937,817	41,937,817	41,125,462	36,860,599
Revised Revenues	(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	(485,293)
Target												

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	45,528,707	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	40,909,646	41,328,298	39,445,423	41,324,162	39,638,624	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)	(1,611,187)	(1,679,771)	(1,569,477)	(1,659,897)	(1,540,056)	(1,591,361)	(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	3,996,746	2,654,848	2,654,507	759,860	1,972,359	1,293,842
L6	21,734,834	24,353,387	26,243,191	27,993,304	32,634,509	35,822,493	39,620,731	43,824,588	46,595,703	49,478,876	50,488,050	52,735,038
L7	24,238,454	26,122,071	27,655,051	32,463,317	35,651,778	39,754,497	43,616,477	46,370,216	49,250,210	50,236,796	52,460,408	54,028,280
L8	(L6 + L7) + 2 or (L6 + L7) + 2 + [1]	22,986,644	25,237,729	27,050,621	30,238,311	34,143,143	37,788,495	41,618,354	45,097,392	47,922,957	49,856,816	51,474,227
L9	114,933	126,189	135,253	151,192	170,718	188,842	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	43,824,588	46,595,703	49,488,825	50,488,050	52,717,779	54,296,192
Target vs Actual Difference:	38,621,842	38,384,038	41,640,204	37,944,203	40,909,646	41,328,298	39,445,423	41,324,162	38,638,624	40,479,114	38,528,431	35,028,258
Recorded Adjusted Revenues - Unadjusted	(184)	(175)	(175)	(159)	(167)	(163)	(163)	(175)	(177)	(191)	(205)	(200)
Billing Adjustments	38,621,858	38,383,863	41,640,029	37,944,044	40,909,479	41,328,135	39,445,250	41,323,987	38,638,447	40,478,923	38,528,226	35,028,058
Revised Revenues	41,125,462	40,152,722	43,255,064	43,980,356	45,538,102	46,940,073	45,011,146	45,528,707	42,833,187	42,830,375	42,000,731	37,645,099
Target	2,503,804	1,768,859	1,615,035	6,036,312	4,628,623	5,611,938	5,565,896	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	45,528,707	42,833,187	42,830,375	42,000,731	37,645,099
L2	38,621,638	38,383,863	41,640,029	37,944,044	40,909,479	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	1,768,859	1,615,035	6,036,312	4,628,623	5,611,938	5,565,896	4,205,720	4,194,740	2,351,452	3,472,505	2,617,041
L4	-	-	-	(1,546,140)	(1,611,187)	(1,679,771)	(1,569,477)	(1,659,897)	(1,540,056)	(1,591,361)	(1,499,941)	(1,322,999)
L5	2,503,804	1,768,859	1,615,035	4,900,172	3,017,436	3,932,167	3,996,419	2,654,823	2,654,684	780,071	1,972,564	1,294,042
L6	21,736,931	24,355,679	26,245,670	27,995,971	32,637,348	35,825,514	39,623,430	43,827,957	46,599,284	49,482,652	50,492,036	52,739,651
L7	24,240,735	26,124,538	27,660,705	32,466,143	35,654,784	39,757,681	43,619,949	46,373,780	49,253,968	50,242,723	52,464,800	54,033,693
L8	(L6 + L7) + 2 or (L6 + L7) + 2 + [1]	22,988,833	25,240,109	27,053,189	30,241,057	34,146,066	37,791,681	41,621,940	45,100,869	47,928,628	49,862,688	51,478,318
L9	114,944	126,201	135,266	151,205	170,730	188,858	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	2,503,804	1,768,859	1,615,035	6,036,312	4,628,623	5,611,938	5,565,896	4,205,720	4,194,740	2,351,452	3,472,505	2,617,041
RBA Adjustment Recorded to Revenue	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
Adjustment to Revenue	184	175	175	159	167	163	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 Monthly Target Revenue	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,822	47,289,315	47,634,122	45,001,122	45,001,122	44,129,429	39,553,044
L2 Recorded Adjusted Revenue	39,226,528	38,772,031	40,347,419	40,290,987	42,838,763	43,680,012	41,908,165	42,572,492	40,870,690	41,178,802	40,155,441	37,871,094
L3 Target vs. Actual Revenue	2,774,203	1,880,528	3,416,305	5,854,231	4,940,879	5,570,810	5,380,150	5,061,630	4,130,432	3,822,320	3,973,888	1,681,950
L4 Reversal of Previous Year Accrual	(1,486,048)	(1,483,978)	(1,598,384)	(4,107,427)	(4,426,857)	(4,465,163)	(4,277,405)	(4,415,078)	(4,102,803)	(4,255,256)	(3,925,516)	(3,761,214)
L5 Net RBA Change	1,288,155	396,550	1,827,921	1,746,804	514,022	1,105,647	1,102,745	645,552	27,628	(432,938)	48,472	(2,079,264)
L6 Beginning RBA Balance	54,300,087	56,053,424	56,721,208	58,035,849	60,913,594	61,546,805	63,128,164	64,552,840	65,724,351	66,230,945	66,165,006	66,564,524
L7 End Balance Before Interest	55,586,252	56,439,974	58,549,129	60,982,453	61,427,616	62,652,252	64,228,909	65,398,392	65,751,980	65,798,007	66,233,478	64,485,980
L8 (L6 + L7) + 2 or (L6 + L7) + 2 - [1]	54,944,175	56,246,889	57,635,169	59,709,051	61,170,805	62,099,528	63,677,537	64,978,116	65,738,185	66,014,478	66,209,242	65,524,882
L9 L8 x (6% or 1.75%) - 12	274,721	281,233	288,176	299,545	305,853	310,498	316,386	324,881	328,691	330,072	331,046	327,624
L10 L7 + L9	55,868,973	56,721,208	58,837,305	60,980,999	61,733,470	62,962,750	64,547,297	65,724,273	66,080,671	66,128,079	66,564,524	64,812,684
Target vs Actual Difference:												
Recorded Adjusted Revenues - Unadjusted	39,226,528	38,772,031	40,347,419	40,290,987	42,838,763	43,680,012	41,908,165	42,572,492	40,870,690	41,178,802	40,155,441	37,871,094
Billing Adjustments	(197)	(182)	(188)	(177)	(172)	(179)	(177)	(180)	(187)	(4,249)	(3,786)	(3,923)
Revised Revenues	39,226,331	38,771,849	40,347,231	40,290,810	42,838,591	43,679,833	41,908,088	42,572,312	40,870,503	41,174,553	40,151,655	37,867,171
Target	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,822	47,289,315	47,634,122	45,001,122	45,001,122	44,129,429	39,553,044
	2,774,400	1,880,710	3,416,493	5,854,408	4,941,051	5,570,789	5,380,327	5,261,610	4,130,619	3,822,569	3,977,774	1,685,773

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 Monthly Target Revenue	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	49,250,822	47,289,315	47,634,122	45,001,122	45,001,122	44,129,429	39,553,044
L2 Recorded Adjusted Revenue	39,226,331	38,771,849	40,347,231	40,290,810	42,838,591	43,679,833	41,908,088	42,572,312	40,870,503	41,174,553	40,151,655	37,867,171
L3 Target vs. Actual Revenue	2,774,400	1,880,710	3,416,493	5,854,408	4,941,051	5,570,789	5,380,327	5,261,610	4,130,619	3,822,569	3,977,774	1,685,773
L4 Reversal of Previous Year Accrual	(1,486,048)	(1,483,978)	(1,598,384)	(4,107,427)	(4,426,857)	(4,465,163)	(4,277,405)	(4,415,078)	(4,102,803)	(4,255,256)	(3,925,516)	(3,761,214)
L5 Net RBA Change	1,288,352	388,732	1,828,109	1,746,981	514,194	1,105,626	1,102,922	645,558	27,816	(428,889)	52,258	(2,075,441)
L6 Beginning RBA Balance	54,300,531	56,058,078	56,725,068	58,040,722	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 End Balance Before Interest	55,592,883	56,444,810	58,554,177	60,987,703	61,433,064	62,657,806	64,234,767	65,405,459	65,758,263	65,806,570	66,247,870	64,503,538
L8 (L6 + L7) + 2 or (L6 + L7) + 2 - [1]	54,948,707	56,251,444	57,640,123	59,714,213	61,175,967	62,105,093	63,683,306	64,982,093	65,744,355	66,022,915	66,221,741	65,541,259
L9 L8 x (6% or 1.75%) + 12	274,744	281,257	288,201	299,571	305,880	310,525	316,417	324,910	328,722	330,115	331,109	327,706
L10 L7 + L9	55,867,627	56,728,068	58,942,378	60,986,275	61,738,945	62,968,431	64,553,184	65,730,369	66,086,985	66,138,685	66,578,979	64,831,244
Revised Adjustment to Revenue	2,774,400	1,880,710	3,416,493	5,854,408	4,941,051	5,570,789	5,380,327	5,261,610	4,130,619	3,822,569	3,977,774	1,685,773
RBA Adjustment Recorded to Revenue	2,774,203	1,880,528	3,416,305	5,854,231	4,940,879	5,570,810	5,380,150	5,261,630	4,130,432	3,822,320	3,973,888	1,681,950
Adjustment to Revenue	197	182	188	177	172	179	177	180	187	4,249	3,786	3,923
Total RBA Adjustment												17,678

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 Monthly Target Revenue	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 Recorded Adjusted Revenue	38,385,130	38,799,920	36,574,222	39,961,425	39,527,599	37,355,977	38,821,713	38,384,038	41,640,204	37,944,203	40,909,646	41,328,298
L3 L1 - L2	5,685,118	5,778,050	5,363,595	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
L4 Reversal of Previous Year Accrual										(1,546,140)	(1,611,187)	(1,679,771)
L5 L4 + L3	5,685,118	5,778,050	5,363,595	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
L6 Beginning RBA Balance	12,445,972	18,207,534	24,035,403	18,705,434	20,780,294	22,486,053	21,734,834	24,353,387	26,243,191	27,983,304	32,634,509	35,822,493
L7 L6 + L5	18,131,090	23,985,583	29,398,998	20,681,826	22,378,157	21,990,584	24,238,454	26,122,071	27,858,051	32,483,317	35,651,778	39,754,487
L8 (L6 + L7) + 2 or (L6 + L7) + 2 - [1]	15,288,531	21,096,558	26,717,201	19,689,630	21,379,228	22,236,319	22,988,644	23,237,729	27,050,921	30,238,311	34,143,143	37,788,495
L9 L8 x (6% or 1.75%) + 12	76,443	105,483	133,587	98,470	107,898	111,194	114,937	126,193	135,258	151,197	170,722	188,950
L10 L7 + L9	18,207,531	24,091,066	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	39,944,957
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
Target vs Actual Difference:				38,961,425	39,527,599	37,355,068	38,821,713	38,384,038	41,640,204	37,944,203	40,909,646	41,328,298
Recorded Adjusted Revenues - Unadjusted				(161)	(174)	(91)	(129)	(135)	(115)	(139)	(148)	(194)
Billing Adjustments				(94)								
Revised Revenues	38,385,090	38,799,858	36,574,128	39,961,364	39,527,425	37,355,977	38,821,713	38,383,903	41,640,089	37,944,064	40,909,500	41,328,104
Target	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
Revised Revenues	5,685,158	5,778,112	5,363,689	1,976,553	1,598,037	(485,378)	2,503,749	1,768,819	1,614,975	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 Monthly Target Revenue	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 Recorded Adjusted Revenue	38,385,090	38,799,858	36,574,128	39,961,364	39,527,425	37,355,977	38,821,713	38,383,903	41,640,089	37,944,064	40,909,500	41,328,104
L3 L1 - L2	5,685,158	5,778,112	5,363,689	1,976,553	1,598,037	(485,378)	2,503,749	1,768,819	1,614,975	6,036,292	4,628,602	5,611,969
L4 Reversal of Previous Year Accrual										(1,546,140)	(1,611,187)	(1,679,771)
L5 L4 + L3	5,685,158	5,778,112	5,363,689	1,976,553	1,598,037	(485,378)	2,503,749	1,768,819	1,614,975	4,490,152	3,017,415	3,932,198
L6 Beginning RBA Balance	12,445,970	18,207,571	24,035,629	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
L7 L6 + L5	18,131,128	23,985,683	29,399,182	20,682,182	22,378,689	21,991,209	24,239,210	26,122,966	27,859,065	32,484,475	35,653,087	39,756,007
L8 (L6 + L7) + 2 or (L6 + L7) + 2 - [1]	15,288,549	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	34,144,360	37,789,908
L9 L8 x (6% or 1.75%) + 12	76,443	105,483	133,587	98,470	107,898	111,194	114,937	126,193	135,258	151,197	170,722	188,950
L10 L7 + 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	39,944,957
Ending RBA Balance				20,780,652	22,486,587	22,102,403	24,354,147	26,248,159	27,994,323	32,635,672	35,823,809	39,944,957
Revised Adjustment to Revenue				1,976,553	1,598,037	(485,378)	2,503,749	1,768,819	1,614,975	6,036,292	4,628,602	5,611,969
RBA Adjustment Recorded to Revenue	5,685,118	5,778,112	5,363,689	1,976,553	1,598,037	(485,378)	2,503,749	1,768,819	1,614,975	6,036,292	4,628,602	5,611,969
Adjustment to Revenue	40	62	94	161	174	91	129	135	115	139	148	194

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 tariff.

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	40,479,114	38,528,431	35,028,258	39,226,528	38,772,031	40,347,419	40,290,987	42,838,856	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)	(1,499,941)	(1,322,999)	(1,486,048)	(1,493,978)	(1,588,364)	(4,107,427)	(4,426,857)	(4,465,163)
L5	3,996,246	2,545,848	2,654,848	759,880	1,972,359	1,293,842	1,288,155	386,550	1,827,921	1,746,804	514,022	1,105,447
L6	39,620,231	43,824,568	46,595,703	49,478,876	50,488,050	52,735,438	54,300,097	56,053,424	56,721,208	58,835,649	60,913,594	61,548,805
L7	43,618,477	46,370,216	49,250,210	50,238,756	52,460,408	54,029,280	55,588,252	56,439,974	58,549,129	60,582,453	61,427,616	62,682,252
L8	(L6 + L7) - 2 or (L6 + L7) + 2 - [1]											
L9	41,918,354	45,097,392	47,922,957	49,588,616	51,474,227	53,382,359	54,944,175	56,246,689	57,635,169	59,709,051	61,170,805	62,099,528
L9	208,092	225,487	239,615	249,294	257,371	266,912	274,721	281,233	288,178	298,545	305,953	310,496
L10	43,824,568	46,595,703	49,488,825	50,488,050	52,717,779	54,296,192	55,862,973	56,721,208	58,837,305	60,890,989	61,733,470	62,962,750

Target vs Actual Difference.

Recorded Adjusted Revenues - Unadjusted	39,445,423	41,324,162	38,638,624	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
Billing Adjustments	(128)	(86)	(90)	(77)	(142)	(77)	(72)	(71)	(82)	(107)	(107)	(91)
Revised Revenues	39,445,295	41,324,076	38,638,534	40,478,037	38,528,289	35,028,181	39,226,456	38,771,960	40,347,337	40,290,880	42,838,656	43,679,921
Target	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	3,416,367	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	40,478,037	38,528,289	35,028,181	39,226,456	38,771,960	40,347,337	40,290,880	42,838,656	43,679,921
L3	5,565,851	4,205,631	4,194,653	2,351,338	3,472,442	2,816,918	2,774,275	1,880,599	3,416,367	5,854,338	4,940,986	5,570,701
L4	(1,569,477)	(1,659,897)	(1,540,056)	(1,591,381)	(1,499,941)	(1,322,999)	(1,486,048)	(1,493,978)	(1,588,364)	(4,107,427)	(4,426,857)	(4,465,163)
L5	3,996,374	2,545,734	2,654,597	759,957	1,972,301	1,293,919	1,288,271	386,621	1,828,003	1,746,911	514,129	1,105,538
L6	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	61,549,479
L7	43,618,122	46,371,956	49,252,048	50,240,680	52,462,485	54,031,444	55,590,498	56,442,302	58,551,551	60,584,994	61,430,277	62,685,017
L8	(L6 + L7) - 2 or (L6 + L7) + 2 - [1]											
L9	41,919,935	45,099,089	47,924,750	49,860,702	51,476,235	53,384,485	54,946,385	56,248,992	57,637,550	59,711,539	61,173,213	62,102,248
L9	208,100	225,495	239,624	249,304	257,381	266,922	274,732	281,245	288,188	298,558	305,966	310,511
L10	43,825,222	46,597,451	49,491,672	50,489,984	52,719,866	54,298,366	55,865,230	56,723,548	58,839,739	60,893,553	61,736,144	62,965,528

Revised Adjustment to Revenue

RBA Adjustment Recorded 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	3,416,367	5,854,338	4,940,986	5,570,701
Adjustment to Revenue	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	41,909,165	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)	(4,255,516)	(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)	(228,952)
L6 Beginning RBA Balance	63,126,164	64,552,840	66,724,351	66,230,845	66,185,006	66,564,524	64,830,562
L7 End Balance Before Interest	64,228,909	65,399,392	65,751,980	65,798,007	66,233,478	64,485,260	64,603,610
L8 Balance Subject to Interest	63,877,537	64,978,116	65,738,165	66,014,476	66,209,242	65,524,882	64,717,086
L9 Interest	316,368	324,881	328,891	330,072	331,046	327,624	94,379
L10 Ending RBA Balance	64,547,297	65,724,273	66,080,671	66,128,079	66,564,524	64,812,864	64,697,869

Target vs Actual Difference:	41,909,165	42,572,492	40,870,690	41,178,802	40,155,441	37,871,094	40,445,741
Recorded Adjusted Revenues - Unadjusted Billing Adjustments	(129)	(84)	(85)	7	14	-	-
Revised Revenues	41,909,036	42,572,408	40,870,605	41,178,809	40,155,455	37,871,094	40,445,741
Target	47,289,315	47,834,122	45,001,122	45,001,122	44,129,429	39,553,044	44,129,429
	5,380,279	5,261,714	4,130,517	3,822,313	3,973,974	1,681,950	3,683,688

Total Billing Adjustment  
(2,887)

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)	(4,255,516)	(3,925,516)	(3,761,214)	(3,910,640)
L5 Net RBA Change	1,102,874	846,636	27,714	(432,945)	48,458	(2,079,284)	(228,952)
L6 Beginning RBA Balance	63,126,942	64,555,761	65,727,370	66,234,064	66,188,134	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 Balance Subject to Interest	63,880,379	64,978,079	65,741,227	66,017,592	66,212,363	65,528,022	64,720,232
L9 Interest	318,402	324,895	328,706	330,088	331,062	327,640	94,384
L10 Ending RBA Balance	64,550,218	65,727,292	66,083,780	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)	-	-

Total RBA Adjustment  
2,887

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 8A)										
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									\$ 66,185,008
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)	\$ -	\$ 39,950,466	\$ 199,752	\$ 64,556,202
7	March	\$ 64,556,202	\$ 44,129,429	\$ 40,445,741	\$ 3,683,688	\$ (3,810,840)	\$ 17,878	\$ 39,376,661	\$ 57,428	\$ 64,404,356
8	April	\$ 64,404,356	\$ 42,712,929	\$ 39,888,701	\$ 2,824,228	\$ (3,873,501)	\$ 2,887	\$ 39,025,684	\$ 56,913	\$ 63,414,883
9	May	\$ -	\$ 45,981,776	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10	June	\$ -	\$ 48,725,406	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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	\$ 846,640	
								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 19, 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	Beginning Balance	Target Revenues	Recorded Adjusted Revenue	Variance to RBA	Interest at 6% or 1.75% year	Adjustment for prior year RBA accrual	Adjustment	Ending Balance
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Monthly RBA Balance and Activity (Monthly PUC Rpt., Pg 9A)									
1	December	\$ 66,080,870	\$ 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	\$ (3,761,214)	\$ -	\$ 64,812,884
7	March	\$ 64,812,884	\$ 44,129,429	\$ 40,445,741	\$ 3,683,688	\$ 94,379	\$ (3,910,640)	\$ 17,878	\$ 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	\$ -	\$ 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 Recorded						\$ 848,640	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	42,712,929	
L2		Recorded Adjusted Revenue	39,888,701	
L3	L1 - L2	Target vs. Actual Revenue	2,824,228	
L4		Reversal of Previous Year Accrual	(3,873,501)	
L5	L4 + L3	Net RBA Change	(1,049,273)	
L6		Beginning RBA Balance	64,700,876	
L7	L6 + L5	End Balance Before Interest	63,651,603	
L8	(L6 + L7) + 2 or (L6 + L7) + 2 + [1]	Balance Subject to Interest	64,178,239	
L9	L8 x (6% or 1.75%) + 12	Interest	93,590	
L10	L7 + L9	Ending RBA Balance	63,745,193	
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	42,712,929	
L2		Recorded Adjusted Revenue	39,642,889	
L3	L1 - L2	Target vs. Actual Revenue	3,070,040	
L4		Reversal of Previous Year Accrual	(3,873,501)	
L5	L4 + L3	Net RBA Change	(803,461)	
L6		Beginning RBA Balance	64,700,876	
L7	L6 + L5	End Balance Before Interest	63,897,415	
L8	(L6 + L7) + 2 or (L6 + L7) + 2 + [1]	Balance Subject to Interest	64,299,146	
L9	L8 x (6% or 1.75%) + 12	Interest	93,770	
L10	L7 + L9	Ending RBA Balance	63,991,185	
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.

HECO-WP-8-007  
HAWAIIAN ELECTRIC COMPANY, INC.  
AUDIT 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 for months from Mar-11 to Feb-12. Rows include Monthly Target Revenue, Recorded Adjusted Revenue, Target vs Actual Revenue, Reversal of Previous Year Accrual, Net RBA Change, Beginning RBA Balance, End Balance Before Interest, Balance Subject to Interest, Interest, Ending RBA Balance, Target vs Actual Difference, Billing Adjustments (Customer 1-67), Revised Revenue, and Target.

AS REVISED

Table with columns for months from Mar-11 to Feb-12. Rows include Monthly Target Revenue, Recorded Adjusted Revenue, Target vs Actual Revenue, Reversal of Previous Year Accrual, Net RBA Change, Beginning RBA Balance, End Balance Before Interest, Balance Subject to Interest, Interest, Ending RBA Balance, Revised Adjustments to Revenue, RBA Adjustments Recorded to Revenue, Adjustment to Revenue, Revised Interest, Interest R recorded, and Adjustment to Interest.

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

Note (2):  
The Company recorded adjustments to the RBA related to customer billing adjustments due to J to G rate change that were processed for numerous customers from August through December 2014. Based on the review performed by Billing, it was determined that three Schedule J customers were billed under an incorrect rate schedule based on meter kWh usage. These J to G schedule changes were not previously identified because the appropriate review was not performed on a timely basis. The Company reworked the RBA based on the billing adjustments in the prior months occurred. Because they all related to the same "event" or uniform performance of a review control and in aggregate exceed an RBA impact of \$50,000, in accordance with the Revenue Balancing Account provision bill, the interest impact was calculated. Effective February 2015, management has returned its monetary control to review accounts for J to G rate changes.





HECO-WP-B-007  
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: Mar-14, Apr-14, May-14, Jun-14, Jul-14, Aug-14, Sep-14, Oct-14, Nov-14. Rows include Monthly Target Revenue, Recorded Adjusted Revenue, Target vs Actual Revenue, Reversal of Previous Year Accrual, Net RBA Change, Beginning RBA Balance, End Balance Before Interest, Balance Subject to Interest, Interest, and Ending RBA Balance.

Target vs Actual Difference  
Recorded Adjusted Revenue - Unadjusted 40,445,741 36,886,701 41,326,528 43,277,375 45,900,584 46,543,655 45,456,888 46,183,856 43,033,461

Billing Adjustments

Table listing billing adjustments for customers 1 through 67. Columns include Customer ID, Mar-14, Apr-14, May-14, Jun-14, Jul-14, Aug-14, Sep-14, Oct-14, Nov-14, and Total Billing Adjustment.

Revised Revenues  
Target 40,426,250 36,872,941 41,310,832 43,261,702 45,884,915 46,548,018 45,442,347 46,183,156 43,027,688 (436,973)  
Total 44,129,429 42,712,828 45,961,776 48,725,408 50,451,219 52,004,449 49,833,478 50,508,748 47,517,340

AS REVISED

Table with columns: Mar-14, Apr-14, May-14, Jun-14, Jul-14, Aug-14, Sep-14, Oct-14, Nov-14. Rows include Monthly Target Revenue, Recorded Adjusted Revenue, Target vs Actual Revenue, Reversal of Previous Year Accrual, Net RBA Change, Beginning RBA Balance, End Balance Before Interest, Balance Subject to Interest, Interest, and Ending RBA Balance.

Revised Adjustment to Revenue  
RBA Adjustment Recorded to Revenue 3,700,079 2,836,988 4,670,844 5,463,706 5,968,504 5,456,433 4,491,128 4,325,588 4,498,742  
RBA Adjustment to Revenue 18,281 15,780 15,584 13,673 15,968 14,629 14,352 10,666 5,963

Revised Interest  
Interest Recorded 84,879 84,118 57,270 57,524 56,932 56,078 55,175 55,801 52,696  
Adjustment to Interest 94,378 (80,266) 56,829 57,175 56,568 55,701 54,785 53,289 52,287

Total Billing Adjustment  
(8,154)  
(7,963)  
(5,429)  
(7,879)  
(12,480)  
(1,818)  
(12,480)  
(204,852)  
Total RBA Adjustments  
From AUG through DEC 2014  
Total Interest Adjustment

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	36,860,599	41,125,462	40,152,722	43,255,064	43,960,356	45,538,102	46,940,073
Recorded Adjusted Revenue	38,385,130	38,789,920	36,574,222	39,961,425	39,527,599	37,356,068	38,621,842	38,384,038	41,640,204	37,944,203	40,909,646	41,328,268
Target vs. Actual Revenue	5,685,118	5,778,050	5,363,595	1,976,392	1,597,863	(495,469)	2,503,620	1,768,684	1,614,860	6,016,153	4,628,456	5,611,775
Reversal of Previous Year Accrual										(1,548,140)	(1,611,187)	(1,679,771)
Net RBA Change	5,685,118	5,778,050	5,363,595	1,976,392	1,597,863	(495,469)	2,503,620	1,768,684	1,614,860	4,468,013	3,017,269	3,932,004
Beginning RBA Balance	12,445,972	18,207,533	24,035,403	18,705,434	20,780,204	22,486,053	21,724,834	24,353,387	26,243,191	27,993,304	32,634,509	35,822,493
End Balance Before Interest	16,131,090	23,985,583	29,398,998	20,681,826	22,378,157	21,990,584	24,238,454	26,122,071	27,858,051	32,463,317	35,651,778	39,758,497
Balance Subject to Interest	15,286,531	21,098,598	26,717,201	19,693,930	21,579,226	22,236,319	22,986,944	25,237,189	27,052,251	30,240,136	34,145,152	37,790,672
Interest	76,443	105,484	133,586	98,468	107,930	111,192	114,933	126,169	135,253	151,192	170,716	188,942
Ending RBA Balance	15,207,533	21,098,598	26,550,787	20,780,204	22,486,053	22,101,776	24,353,387	26,243,191	27,993,304	32,834,509	35,822,493	39,943,440

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

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	36,860,599	41,125,462	40,152,722	43,255,064	43,960,356	45,538,102	46,940,073
Recorded Adjusted Revenue	38,384,938	38,789,731	36,574,044	39,961,232	39,527,418	37,355,863	38,621,646	38,383,841	41,640,018	37,944,015	40,909,485	41,328,144
Target vs. Actual Revenue	5,685,310	5,778,239	5,363,773	1,976,585	1,598,044	(495,264)	2,503,816	1,768,881	1,615,046	6,016,341	4,628,617	5,611,929
Reversal of Previous Year Accrual										(1,548,140)	(1,611,187)	(1,679,771)
Net RBA Change	5,685,310	5,778,239	5,363,773	1,976,585	1,598,044	(495,264)	2,503,816	1,768,881	1,615,046	4,468,201	3,017,082	3,932,233
Beginning RBA Balance	12,445,970	18,207,723	24,035,783	18,705,994	20,781,050	22,486,994	21,724,965	24,354,720	26,244,728	27,995,035	32,636,437	35,824,588
End Balance Before Interest	16,131,290	23,985,862	29,399,556	20,682,579	22,379,094	21,991,710	24,239,781	26,123,601	27,859,774	32,465,236	35,653,887	39,758,751
Balance Subject to Interest	15,288,825	21,098,862	26,717,670	19,694,287	21,580,872	22,239,352	22,987,873	25,238,180	27,052,251	30,240,136	34,145,152	37,790,672
Interest	76,443	105,484	133,586	98,471	107,900	111,187	114,933	126,186	135,261	151,201	170,726	188,953
Ending RBA Balance	15,207,723	21,091,446	26,553,144	20,781,050	22,486,994	22,102,907	24,354,720	26,244,787	27,995,035	32,838,437	35,824,583	39,945,704

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

Revised Interest  
Interest Recorded  
Adjustment to Interest

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 timely performance of a review control and in aggregate exceed an RBA impact of \$50,000, in accordance with the Review Balancing Account provision buff, 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	45,011,146	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	49,250,822
L2 Recorded Adjusted Revenue	39,445,423	41,324,162	38,639,624	40,479,114	38,528,431	35,028,258	39,226,528	38,772,031	40,347,419	40,290,987	42,838,763	43,680,912
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	5,570,910
L4 Reversal of Previous Year Accrual	(1,569,477)	(1,659,897)	(1,540,056)	(1,591,381)	(1,499,941)	(1,322,999)	(1,488,048)	(1,493,978)	(1,568,364)	(4,107,427)	(4,428,857)	(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	386,550	1,827,921	1,746,804	514,022	1,105,447
L6 Beginning RBA Balance	39,820,231	43,924,568	46,596,703	49,478,976	50,488,050	52,715,438	54,300,097	56,653,424	58,721,208	58,835,649	60,913,594	61,548,805
L7 End Balance Before Interest	41,610,477	46,370,216	49,250,210	50,238,756	52,460,408	54,029,280	55,580,252	58,039,974	59,549,129	60,582,453	61,427,816	62,652,252
L8 (L6 + L7) * 2 or (L6 + L7) * 2 + (1)	208,092	225,487	239,615	249,294	257,371	266,912	274,721	281,233	288,176	296,345	305,853	310,486
L9 L8 * (6% or 1.75%) * 12	43,824,568	46,395,703	49,489,825	50,488,050	52,717,778	54,296,192	55,862,973	58,721,208	58,837,305	60,660,999	61,733,470	62,962,750
L10 L7 * L9												

Target vs Actual Difference:

Recorded Adjusted Revenues - Unadjusted	39,445,423	41,324,162	38,639,624	40,479,114	38,528,431	35,028,258	39,226,528	38,772,031	40,347,419	40,290,987	42,838,763	43,680,912
Billing Adjustments	(157)	(155)	(176)	(173)	(170)	(187)	(192)	(178)	(207)	(254)	(256)	(255)
Revised Revenues	39,445,266	41,324,007	38,639,448	40,478,941	38,528,261	35,028,071	39,226,336	38,771,853	40,347,212	40,290,733	42,838,507	43,679,757
Target	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	49,250,822
	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	5,854,485	4,941,135	5,570,865

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	45,011,146	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	49,250,822
L2 Recorded Adjusted Revenue	39,445,266	41,324,007	38,639,448	40,478,941	38,528,261	35,028,071	39,226,336	38,771,853	40,347,212	40,290,733	42,838,507	43,679,757
L3 Target vs. Actual Revenue	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	5,854,485	4,941,135	5,570,865
L4 Reversal of Previous Year Accrual	(1,569,477)	(1,659,897)	(1,540,056)	(1,591,381)	(1,499,941)	(1,322,999)	(1,488,048)	(1,493,978)	(1,568,364)	(4,107,427)	(4,428,857)	(4,465,163)
L5 Net RBA Change	3,996,246	2,545,648	2,654,507	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	39,822,495	43,927,001	46,598,303	49,481,965	50,491,026	52,738,600	54,303,462	56,658,988	58,724,970	58,839,844	60,917,864	61,552,353
L7 End Balance Before Interest	43,818,868	48,372,804	49,252,986	50,241,718	52,463,555	54,032,629	55,597,809	58,043,726	59,553,106	60,586,702	61,432,142	62,657,055
L8 (L6 + L7) * 2 or (L6 + L7) * 2 + (1)	41,620,897	45,098,903	47,825,845	49,861,692	51,477,290	53,268,928	54,947,635	58,250,362	57,639,042	59,713,173	61,175,003	62,104,204
L9 L8 * (6% or 1.75%) * 12	208,103	225,489	239,628	249,306	257,386	266,928	274,738	281,251	288,194	296,566	305,875	310,521
L10 L7 * L9	43,827,001	46,398,303	49,492,614	50,491,026	52,720,941	54,299,557	55,868,547	58,724,978	58,841,300	60,665,289	61,738,018	62,967,576

Revised Adjustment to Revenue

RBA Adjustment Recorded to Revenue	5,565,860	4,205,700	4,194,738	2,351,434	3,472,470	2,617,028	2,774,395	1,880,706	3,416,512	5,854,485	4,941,135	5,570,865
Adjustment to Revenue	157	155	176	173	170	187	192	178	207	254	256	255
Revised Interest	208,103	225,499	239,628	249,306	257,386	266,926	274,738	281,251	288,194	296,566	305,875	310,521
Interest Recorded	208,092	225,487	239,615	249,294	257,371	266,912	274,721	281,233	288,176	296,545	305,853	310,486
Adjustment to Interest	11	12	13	14	15	16	17	18	18	21	22	23



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	47,289,315	47,834,122	45,001,122	45,001,122	44,128,428	39,553,044	44,128,428	42,712,828	45,981,776	48,725,408	50,451,219	52,004,449
L2 Recorded Adjusted Revenue	41,908,910	42,572,492	40,870,690	41,178,802	40,155,441	37,871,094	40,445,741	39,888,701	41,328,526	43,277,375	45,900,584	48,563,655
L3 Target vs. Actual Revenue	5,380,405	5,261,630	4,130,432	3,822,320	3,973,000	3,683,888	3,699,700	2,824,228	4,652,250	5,448,033	4,550,635	5,440,784
L4 Reversal of Previous Year Accrual	(4,277,405)	(4,415,078)	(4,102,803)	(4,255,516)	(3,761,214)	(3,761,214)	(3,910,840)	(3,873,501)	(4,160,513)	(5,518,592)	(5,956,735)	(6,117,873)
L5 Net RBA Change	1,102,745	846,552	27,629	(432,938)	48,472	(2,079,284)	(226,952)	(1,049,273)	484,737	(70,559)	(1,406,100)	(877,079)
L6 Beginning RBA Balance	63,126,164	64,552,840	65,724,351	66,230,945	66,185,006	66,564,524	64,700,876	63,960,874	63,960,874	64,212,547	64,199,163	62,860,842
L7 End Balance Before Interest	64,228,909	65,398,392	65,751,980	65,798,007	66,233,478	64,485,260	64,603,810	64,155,611	64,155,611	64,141,986	62,793,063	62,183,763
L8 (L6 + L7) + 2 or (L6 + L7) + 2 * (1)	63,877,537	64,978,116	65,736,165	66,014,478	66,208,242	65,524,892	64,717,086	64,176,238	64,176,238	64,155,611	62,793,063	62,183,763
L9 L8 * (6% or 1.75%) + 12	318,388	324,881	328,981	330,072	331,046	327,824	343,379	93,980	56,936	57,175	56,568	55,701
L10 L7 + L9	64,545,297	65,724,273	66,080,671	66,128,079	66,566,524	64,812,884	64,987,989	63,745,163	64,212,547	64,199,163	62,849,631	62,239,464

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
Target vs Actual Difference:	41,908,165	42,572,492	40,870,690	41,178,802	40,155,441	37,871,094	40,445,741	39,888,701	41,328,526	43,277,375	45,900,584	48,563,655
Revised Adjusted Revenues - Unadjusted	(255)	(256)	284	(273)	288	170	96	96	96	96	96	96
Billing Adjustments	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	48,563,655
Revised Revenues	47,289,315	47,834,122	45,001,122	45,001,122	44,128,428	39,553,044	44,128,428	42,712,828	45,981,776	48,725,408	50,451,219	52,004,449
Target	5,380,405	5,261,630	4,130,696	3,822,593	3,974,256	1,882,120	3,683,784	2,824,228	4,652,250	5,448,033	4,550,635	5,440,784

Monthly Target Revenue	47,289,315	47,834,122	45,001,122	45,001,122	44,128,428	39,553,044	44,128,428	42,712,828	45,981,776	48,725,408	50,451,219	52,004,449
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	48,563,655
Target vs. Actual Revenue	5,380,405	5,261,630	4,130,696	3,822,593	3,974,256	1,882,120	3,683,784	2,824,228	4,652,250	5,448,033	4,550,635	5,440,784
Reversal of Previous Year Accrual	(4,277,405)	(4,415,078)	(4,102,803)	(4,255,516)	(3,761,214)	(3,761,214)	(3,910,840)	(3,873,501)	(4,160,513)	(5,518,592)	(5,956,735)	(6,117,873)
Net RBA Change	1,103,000	846,908	27,893	(432,965)	48,740	(2,079,084)	(226,856)	(1,049,273)	484,737	(70,559)	(1,406,100)	(877,079)
Beginning RBA Balance	63,130,990	64,557,945	65,729,737	66,236,821	66,190,993	66,570,798	64,837,039	64,707,459	63,967,467	64,218,145	64,205,767	62,867,452
End Balance Before Interest	63,682,990	65,404,753	65,757,630	65,803,956	66,238,723	64,481,705	64,610,183	63,958,166	64,162,204	64,148,588	62,799,067	62,190,373
Balance Subject to Interest	318,412	324,906	328,717	330,100	331,076	327,856	343,389	93,980	56,941	57,181	56,574	55,707
Interest	64,552,402	65,729,659	66,086,347	66,134,056	66,576,799	64,818,361	64,704,572	63,751,766	64,218,145	64,205,767	62,856,241	62,246,080
Revised Adjustment to Revenue	5,380,405	5,261,630	4,130,696	3,822,593	3,974,256	1,882,120	3,683,784	2,824,228	4,652,250	5,448,033	4,550,635	5,440,784
RBA Adjustment Recorded to Revenue	5,380,150	5,261,376	4,130,432	3,822,320	3,973,988	1,881,950	3,683,688	2,824,228	4,652,250	5,448,033	4,550,635	5,440,784
Adjustment to Revenue	255	256	264	273	288	170	96	96	96	96	96	96

Revised Interest	318,412	324,906	328,717	330,100	331,076	327,856	343,389	93,980	56,941	57,181	56,574	55,707
Interest Recorded	318,388	324,881	328,981	330,072	331,046	327,824	343,379	93,980	56,936	57,175	56,568	55,701
Adjustment to Interest	24	25	28	28	30	32	10	10	5	6	6	6

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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	49,933,476	50,508,746	47,517,340	47,517,340
L2	45,456,699	46,193,856	43,033,461	42,808,961
L3	4,476,777	4,314,890	4,483,879	4,708,379
L4	(8,024,188)	(6,133,236)	(5,514,770)	(5,430,235)
L5	(1,547,411)	(1,018,346)	(1,030,891)	(721,656)
L6	62,267,427	60,845,258	59,205,801	58,461,664
L7	80,720,016	59,029,912	58,174,910	57,733,175
L8	37,568,514	36,616,787	35,653,938	35,488,687
L9	54,785	53,399	52,287	51,756
L10	60,774,801	59,083,311	58,227,197	57,794,931

Monthly Target Revenue	49,933,476	50,508,746	47,517,340	47,517,340
Recorded Adjusted Revenue	45,456,699	46,193,856	43,033,461	42,808,961
Target vs. Actual Revenue	4,476,777	4,314,890	4,483,879	4,708,379
Reversal of Previous Year Accrual	(8,024,188)	(6,133,236)	(5,514,770)	(5,430,235)
Net RBA Change	(1,547,411)	(1,018,346)	(1,030,891)	(721,656)
Beginning RBA Balance	62,267,427	60,845,258	59,205,801	58,461,664
End Balance Before Interest	80,720,016	59,029,912	58,174,910	57,733,175
Balance Subject to Interest	37,568,514	36,616,787	35,653,938	35,488,687
Interest	54,785	53,399	52,287	51,756
Ending RBA Balance	60,774,801	59,083,311	58,227,197	57,794,931

Target vs Actual Difference:	45,456,699	46,193,856	43,033,461	42,808,961
Recorded Adjusted Revenues - Unadjusted	45,456,699	46,193,856	43,033,461	42,808,961
Billing Adjustments	49,933,476	50,508,746	47,517,340	47,517,340
Revised Revenues	4,476,777	4,314,890	4,483,879	4,708,379
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	49,933,476	50,508,746	47,517,340	47,517,340
L2	45,456,699	46,193,856	43,033,461	42,808,961
L3	4,476,777	4,314,890	4,483,879	4,708,379
L4	(8,024,188)	(6,133,236)	(5,514,770)	(5,430,235)
L5	(1,547,411)	(1,018,346)	(1,030,891)	(721,656)
L6	62,274,043	60,854,879	59,212,428	58,461,664
L7	80,726,632	59,036,533	58,181,537	57,739,608
L8	37,570,556	36,620,832	35,657,967	35,493,740
L9	54,790	53,405	52,293	51,762
L10	60,781,422	59,089,938	58,233,630	57,791,570

Monthly Target Revenue	49,933,476	50,508,746	47,517,340	47,517,340
Recorded Adjusted Revenue	45,456,699	46,193,856	43,033,461	42,808,961
Target vs. Actual Revenue	4,476,777	4,314,890	4,483,879	4,708,379
Reversal of Previous Year Accrual	(8,024,188)	(6,133,236)	(5,514,770)	(5,430,235)
Net RBA Change	(1,547,411)	(1,018,346)	(1,030,891)	(721,656)
Beginning RBA Balance	62,274,043	60,854,879	59,212,428	58,461,664
End Balance Before Interest	80,726,632	59,036,533	58,181,537	57,739,608
Balance Subject to Interest	37,570,556	36,620,832	35,657,967	35,493,740
Interest	54,790	53,405	52,293	51,762
Ending RBA Balance	60,781,422	59,089,938	58,233,630	57,791,570

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

Revised Interest	54,790	53,405	52,293	51,762
Interest Recorded	54,785	53,399	52,287	51,756
Adjustment to Interest	5	6	6	497

Total Interest Adjustment  
497

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	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	39,961,425	39,527,599	37,355,923	38,621,842	38,384,038	41,640,204	37,944,203	40,909,646	41,328,298	39,445,423	41,324,162	38,638,624
L3	1,976,392	1,597,863	(495,469)	2,503,620	1,768,684	1,614,860	6,036,153	4,828,456	5,611,775	5,565,723	4,205,545	4,194,563
L4	1,976,392	1,597,863	(495,469)	2,503,620	1,768,684	1,614,860	4,480,013	3,017,269	3,932,004	3,986,246	2,545,648	2,854,507
L5	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	39,620,231	43,824,568	46,595,703
L6	20,681,826	22,378,157	21,990,584	24,238,454	26,122,071	27,858,051	32,483,317	35,651,778	39,754,497	43,616,477	46,370,216	49,250,210
L7	19,693,630	21,578,226	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
L8	98,468	107,896	111,192	114,933	126,189	135,253	151,192	170,716	188,942	208,092	225,487	239,615
L9	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
L10												

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

	39,961,279	39,527,440	37,355,923	38,621,897	38,383,904	41,640,056	37,944,085	40,909,515	41,328,186	39,445,299	41,324,035	38,638,239
Target	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
	1,976,538	1,598,022	(495,324)	2,503,765	1,768,818	1,615,008	6,036,271	4,828,587	5,611,887	5,565,847	4,205,672	4,194,948

AS REMISED

	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	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	39,961,279	39,527,440	37,355,923	38,621,897	38,383,904	41,640,056	37,944,085	40,909,515	41,328,186	39,445,299	41,324,035	38,638,239
L3	1,976,538	1,598,022	(495,324)	2,503,765	1,768,818	1,615,008	6,038,271	4,828,587	5,611,887	5,565,847	4,205,672	4,194,948
L4	1,976,538	1,598,022	(495,324)	2,503,765	1,768,818	1,615,008	4,480,131	3,017,400	3,932,116	3,986,370	2,545,775	2,854,892
L5	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
L6	20,681,972	22,378,463	21,991,036	24,239,052	26,122,806	27,858,937	32,484,325	35,652,921	39,755,758	43,617,867	46,371,734	49,252,113
L7	19,693,703	21,578,452	22,238,698	22,987,169	25,238,397	27,051,433	30,239,259	34,144,221	37,789,700	41,619,862	45,098,847	47,924,687
L8	98,469	107,897	111,193	114,936	126,192	135,257	151,196	170,721	188,949	208,092	225,487	239,615
L9	20,780,441	22,488,360	22,102,229	24,353,988	26,248,988	27,994,194	32,635,521	35,823,642	39,944,707	43,825,959	46,597,221	49,491,728
L10												

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

	1,976,538	1,598,022	(495,324)	2,503,765	1,768,818	1,615,008	6,036,271	4,828,587	5,611,887	5,565,847	4,205,672	4,194,948
	1,976,392	1,597,863	(495,469)	2,503,620	1,768,684	1,614,860	6,036,153	4,828,456	5,611,775	5,565,723	4,205,545	4,194,563
	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
Monthly Target Revenue	42,830,375	42,000,731	37,645,099	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	48,250,622	47,289,315	47,834,122	45,001,122
Recorded Adjusted Revenue	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
Target vs. Actual Revenue	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
Reversal of Previous Year Accrual	(1,591,381)	(1,499,941)	(1,322,999)	(1,486,048)	(1,493,978)	(1,588,384)	(4,107,427)	(4,426,857)	(4,465,163)	(4,277,405)	(4,415,078)	(4,102,803)
Net RBA Change	759,880	1,972,359	1,293,842	1,288,155	386,550	1,827,921	1,746,804	514,022	1,105,447	1,102,745	846,552	27,629
Beginning RBA Balance	49,478,876	50,488,050	52,735,438	54,300,097	56,053,424	56,721,208	58,913,593	60,913,593	61,546,804	63,126,164	64,592,840	65,724,351
End Balance Before Interest	50,238,756	52,460,408	54,029,280	55,598,252	56,439,974	58,549,129	60,592,453	61,427,615	62,552,251	64,238,909	65,399,392	65,751,980
Balance Subject to Interest	49,858,816	51,474,227	53,382,359	54,944,175	56,246,699	57,635,169	59,709,051	61,170,604	62,099,528	63,677,537	64,976,116	65,738,165
Interest	249,294	257,371	266,912	274,721	281,233	288,176	298,545	305,653	310,498	318,368	324,881	328,691
Ending RBA Balance	50,488,050	52,717,779	54,296,192	55,869,973	56,721,208	58,837,305	60,880,999	61,733,469	62,962,750	64,547,297	65,724,273	66,080,671
Target vs Actual Difference:												
Recorded Adjusted Revenues - Unadjusted	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
Billing Adjustments: Customer 1	(142)	(143)	(153)	(156)	(155)	(121)	(103)	(113)	(112)	(131)	(127)	(159)
Billing Adjustments: Customer 2	(281)	(279)	(282)	(282)	(281)	(281)	(281)	(279)	(282)	(279)	(281)	(281)
Revised Revenues	40,478,691	38,528,009	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
Target	42,830,375	42,000,731	37,645,099	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	48,250,622	47,289,315	47,834,122	45,001,122
	2,351,684	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
Monthly Target Revenue	42,830,375	42,000,731	37,645,099	42,000,731	40,652,559	43,763,724	46,145,218	47,779,642	48,250,622	47,289,315	47,834,122	45,001,122
Recorded Adjusted Revenue	40,478,691	38,528,009	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
Target vs. Actual Revenue	2,351,684	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
Reversal of Previous Year Accrual	(1,591,381)	(1,499,941)	(1,322,999)	(1,486,048)	(1,493,978)	(1,588,384)	(4,107,427)	(4,426,857)	(4,465,163)	(4,277,405)	(4,415,078)	(4,102,803)
Net RBA Change	760,303	1,972,781	1,294,277	1,288,593	386,986	1,828,323	1,747,188	514,413	1,105,841	1,103,155	846,960	28,069
Beginning RBA Balance	49,480,779	50,490,376	52,738,200	54,303,309	56,057,091	56,725,330	58,940,194	60,918,546	61,552,175	63,131,956	64,599,072	65,731,023
End Balance Before Interest	50,241,082	52,463,157	54,032,477	55,591,902	56,444,077	58,553,653	60,587,382	61,432,960	62,558,018	64,235,111	65,406,032	65,759,092
Balance Subject to Interest	49,860,831	51,476,767	53,385,339	54,947,606	56,250,584	57,638,482	59,713,788	61,175,753	62,105,096	63,683,534	64,982,552	65,745,057
Interest	249,294	257,384	266,927	274,738	281,252	288,197	298,569	305,878	310,525	318,418	324,913	328,725
Ending RBA Balance	50,490,376	52,720,541	54,299,404	55,869,640	56,725,330	58,841,950	60,885,952	61,738,840	62,968,542	64,553,529	65,730,945	66,087,817
Revised Adjustment to Revenue	2,351,684	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
RBA Adjustment Recorded to Revenue	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
Adjustment to Revenue	423	422	435	438	436	402	384	392	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	46,193,450	43,033,461
L3 Target vs. Actual Revenue	3,822,320	3,973,988	1,681,950	3,699,688	2,824,228	4,655,250	5,448,033	4,550,635	5,440,794	4,476,777	4,314,890	4,483,879
L4 Reversal of Previous Year Accrual	(4,255,258)	(3,925,516)	(3,761,214)	(3,910,640)	(3,873,501)	(4,160,513)	(5,518,592)	(5,956,735)	(6,117,873)	(6,024,188)	(6,133,236)	(5,514,770)
L5 Net RBA Change	(432,938)	48,472	(2,079,264)	(226,952)	(1,049,273)	694,737	(70,559)	(1,406,100)	(677,079)	(1,547,411)	(1,818,346)	(1,030,891)
L6 Beginning RBA Balance	66,230,945	66,185,008	66,564,524	64,830,562	64,700,876	63,660,874	64,212,547	64,189,163	62,860,842	62,267,427	60,846,258	59,205,801
L7 End Balance Before Interest	65,798,007	66,233,478	64,465,260	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 Balance Subject to Interest	66,014,476	66,209,242	65,524,892	64,717,086	64,176,239	63,041,545	62,789,775	62,194,875	61,586,514	60,926,514	59,616,787	58,553,938
L9 Interest	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 Ending RBA Balance	66,128,079	66,564,524	64,812,884	64,697,989	63,745,193	64,212,547	64,189,163	62,849,631	62,239,464	60,774,801	59,083,311	58,227,197

Target vs Actual Difference:

Recorded Adjusted Revenues - Unadjusted	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	46,193,450	43,033,461
Billing Adjustments: Customer 1	(163)	(160)	(169)	(167)	(166)	(154)	(144)	(130)	(148)	(140)	(132)	(157)
Billing Adjustments: Customer 2	(281)	(282)	(282)	(283)	(282)	(282)	(274)	(276)	(274)	(275)	(274)	(276)
Revised Revenues	41,178,359	40,154,999	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
Target	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
	3,822,763	3,974,430	1,682,402	3,684,138	2,824,876	4,655,686	5,448,432	4,551,041	5,441,217	4,477,193	4,315,296	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	40,154,999	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	2,824,876	4,655,686	5,448,452	4,551,041	5,441,217	4,477,193	4,315,296	4,484,312
L4 Reversal of Previous Year Accrual	(4,255,258)	(3,925,516)	(3,761,214)	(3,910,640)	(3,873,501)	(4,160,513)	(5,518,592)	(5,956,735)	(6,117,873)	(6,024,188)	(6,133,236)	(5,514,770)
L5 Net RBA Change	(432,495)	48,914	(2,078,812)	(226,502)	(1,048,825)	495,173	(70,140)	(1,405,694)	(676,656)	(1,546,965)	(1,817,940)	(1,030,450)
L6 Beginning RBA Balance	66,238,091	66,192,632	66,572,631	64,839,163	64,709,940	63,670,400	64,222,517	64,209,561	62,871,658	62,278,673	60,859,930	59,217,891
L7 End Balance Before Interest	65,805,596	66,241,546	64,493,819	64,612,861	63,661,115	64,165,573	64,152,377	62,803,867	62,194,899	60,731,678	59,041,991	58,187,433
L8 Balance Subject to Interest	66,021,844	66,217,089	65,533,225	64,725,912	64,185,527	63,047,498	62,789,775	62,194,875	61,586,514	60,926,514	59,616,787	58,553,938
L9 Interest	330,109	331,085	327,668	327,668	327,668	327,668	327,668	327,668	327,668	327,668	327,668	327,668
L10 Ending RBA Balance	66,135,705	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	59,095,401	58,239,731

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

Revised Adjustment to Revenue	3,822,763	3,974,430	1,682,402	3,684,138	2,824,876	4,655,686	5,448,452	4,551,041	5,441,217	4,477,193	4,315,296	4,484,312
RBA Adjustment Recorded to Revenue	3,822,320	3,973,988	1,681,850	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	406	423	416	406	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

	Dec-14	Jan-15		Jan-15	Prior to Dec 2014
<b>AS PREVIOUSLY STATED</b>					
L1	47,517,340	46,596,907	Monthly Target Revenue		
L2	42,808,961	41,131,344	Recorded Adjusted Revenue		
L3	4,708,379	5,465,563	Target vs. Actual Revenue	(156)	(5,213)
L4	(5,430,235)	(5,141,776)	Reversal of Previous Year Accrual	(273)	(7,266)
L5	(721,856)	323,787	Net RBA Change	(12,908)	(12,479)
L6	58,455,031	57,791,569	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	51,756	51,630	Interest		
L10	57,784,931	58,166,996	Ending RBA Balance		
			<b>Target vs. Actual Difference:</b>		
	42,808,961	41,131,344	Recorded Adjusted Revenues - Unadjusted	(156)	
	(169)	(156)	Billing Adjustments, Customer 1	(273)	
	(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			

	Dec-14	Jan-15		Jan-15	Prior to Dec 2014
<b>AS REVISED</b>					
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	58,467,565	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	58,160,417	Ending RBA Balance		
	4,708,824	5,465,992	Revised Adjustment to Revenue		
	4,708,379	5,465,563	RBA Adjustment Recorded to Revenue		
	445	429	Adjustment to Revenue	12,908	
			<b>Total RBA Adjustment</b>	429	429
					Prior to Dec 2014
					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](http://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](http://www.hei.com), under SEC filings. See also HECO-WP-C-003.

# Blue Chip Economic Indicators<sup>®</sup>

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





HAWAIIAN ELECTRIC COMPANY, INC.

HECO-WP-C-003

EXHIBIT A

PAGE 1 OF 1

3% (2.91%)

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		24.78		25.50		26.26		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		22.88		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		26.26		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		26.26		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	
CLA49	PROJECT CLERK												
CLA81	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		26.26		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			2015 Activities		Rate Base CIP CT-1 Cost Recoverable at 12/31/15
		Recoverable at 12/31/14	Additions (12 months)	Amortization (12 months)	Net Change	Recoverable at 12/31/15	
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 (5)	CIAC & Adjustments (C)	Net Project Cost (6) = (5) - (C)	Net Plant Adds Thru 12/31/14 (7)	Recorded CIAC 12/31/14 (7)	Gross Plant Adds 12/31/14 (8) = (7) - (7)	PUC Approved, net (9)	Gross PUC Approved (10) = (9) - (7) - (8)	Over/(Under) PUC Approved (N) = (8) - (10)	Functional Plant Category
<b>2014 Major Projects</b>													
1	Y00119												
	P0001504	Kali Substation Land	2013/06	102,440	-	102,440	102,440	-	-				Land
	P0001505	Kali Substation	2014/03	6,548,755	-	6,548,755	6,548,755	-	-				Distribution
	P0001506	North South Road 48KV Line	2013/03	2,099,046	-	2,099,046	2,099,046	-	-				Distribution
	P0001507	Kali Sub 48KV & 12KV Distr	2014/03	1,218,895	-	1,218,895	1,218,895	-	-				Distribution
	P0001508	Kali Telecomm	2014/03	171,237	-	171,237	171,237	-	-				Communication
	P0001554	Kali Sub 12KV Work	2014/03	25,906	-	25,906	25,906	-	-				Distribution
			2,201,486	7,964,793	-	7,964,793	10,166,279	12,173,999	12,340,278	13,055,437 (4a)	14,229,426	(1,889,148)	
2	Y00038	Kakaako Makai-Hikei 25KV DL	2014 straggling	6,661,331	-	6,661,331	7,146,981	-	7,146,981	3,627,507 (4b)	3,627,507	3,519,474	Distribution
3	Y00038	Kakaako Makai-Kewalo 25KV DL	2014/04	-	4,958,840	4,958,840	4,958,840	-	4,958,840	4,013,624	4,013,624	-	Distribution
	P0001579	Kakaako Makai DOT Queen-Cook	2014/04	-	1,961,600	1,961,600	1,961,600	-	1,961,600	1,170,090 (5)	1,170,090	-	Distribution
			-	6,920,440	-	6,920,440	6,920,440	-	6,920,440	5,183,714 (4b)	5,183,714	1,736,726	Distribution
4	P0000900	BPT Tank 133 Improvements	2014/12	-	6,095,787	6,095,787	6,095,787	-	6,095,787	6,995,582 (4c)	6,995,582	(899,795)	Production Steam
5	P0001492	Pulele 80MVA Tsf #2	2014/05	-	3,449,859	3,449,859	3,449,859	-	3,449,859	4,113,444 (4d)	4,113,444	(663,585)	Transmission
6	P0001370	DOT Airport DSG	2014/08	(1,993,000) (2)	4,965,396	4,965,396	2,972,396	(1,993,000)	4,965,396	3,400,000 (4e)	5,393,000	(427,604)	Production Other
7	P0001494	Pulele 80MVA Tsf #3	2014 straggling	4,299,560	28,327	4,327,887	4,327,887	-	4,327,887	4,501,730 (4d)	4,501,730	(173,843)	Transmission
8	Y48500	Various EOTF Phase 2	2014 straggling	9,804,341	7,357 (43,725)	(36,368)	9,767,973	(5,101,463)	14,869,436	10,959,000 (4f)	15,160,463	(291,027)	Distribution
9	Y00127	P0001606 Kapolei Substation	2014 straggling	6,997,764	6,459	6,459	7,004,223	-	7,004,223	9,853,084 (4g)	9,853,084	(2,848,861)	Distribution
10	P7560000	W8 Boiler Controls Upgrade	2014 straggling	6,329,105	(18,503)	(18,503)	6,310,602	-	6,310,602	5,236,138 (4h)	5,236,138	1,074,464	Production Steam
11	P7590000	W7 Controls Upgrade	2014 straggling	5,437,305	8,237	8,237	5,445,542	-	5,445,542	5,021,440 (4i)	5,021,440	424,102	Production Steam
<b>Other Projects with costs above the PUC Approved</b>													
1	Y00138	Various Kahuku Wind Power		2,132,812	-	2,132,812	2,132,812	-	2,132,812	2,125,651 (1)	2,125,651	7,161	Various
2	P0001399	W8 Main Transformer Replace	2013 straggling	2,600,439	-	2,600,439	2,600,439	-	2,600,439	2,357,425 (3)	2,357,425	243,014	Stream Production

[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(f), Relating to Capital Improvements Capital Projects Completed in 2014, in Docket No. 09-0257, filed on March 27, 2015. See HECO-WP-D2-002.

[4] Per the Final Decision & Order and Dissenting Opinion of Leslie H. Kondo, Commissioner, filed on August 31, 2010, in Docket No. 2008-0274, on page 54, "for purposes of calculating the Rate Base for the RAM, the costs on Major Capital Projects shall be limited to those amounts most recently approved, e.g., when authorized in the commission's decision approving the HECO Companies' application in compliance with General Order No. 7 or in an interim or final decision and order issued by the commission in the HECO companies' rate cases."

[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 Y00119, Kali Substation, Kali Transformers #1 and #2, and 48KV 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 (1a).

[4b] Letter From: D. Endo-Omoto, Exhibit IX Page 2 of 5, To: Commissioner, Re: Docket No. 2009-0042, DOT Underground Request/Kakaako Makai 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, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for Item Y00038, DOT Underground Request, and Kakaako Makai 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 (1a) & (1d).

[4c] Decision and Order, p. 28, Docket No. 2010-0318, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for Item P0000900, Barbent 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 P0000900, Pulele Tsf #2 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 P0001370, DOT Airport DSG, filed December 31, 2008.

[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] Decision and Order, p. 18, Docket No. 2011-0026, For Approval to Commit Funds in Excess of \$2,500,000 (excluding customer contributions) for Item Y00127, Kapolei Substation, filed February 16, 2012.

[4h] See Hawaiian Electric response to CAIR-292, Attachment 8, p. 10, filed in Docket No. 2010-0080, Hawaiian Electric 2011 Test Year Rate Case.

[4i] See Hawaiian Electric response to CAIR-292, Attachment 8, p. 6, filed in Docket No. 2010-0080, Hawaiian Electric 2011 Test Year Rate Case.

[5] The CIAC estimated to be received in 2015 (see Schedule G2) is not included in the Gross PUC approved amount of \$11,700,090 for the purpose of the Over/(Under) PUC Approved calculation.

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

<b>Projects</b>	<b>2014 Plant Addition (1)</b>
Less than \$2.5M	239,412,448
Greater than \$2.5M	29,913,802
<b>Total Plant Additions</b>	<b>269,326,250</b>
 <b>Less: Major Project additions in 2014</b>	
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>
 <b>Baseline Plant Additions</b>	 <b>239,412,448</b>

(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	CIAC Received/Estimated CIAC	Gross PUC Approved	Gross Plant Adds thru 12/31/14 [1]	2015 Gross Plant Additions [1]	F + D + E Estimated Gross Plant Adds thru 12/31/15	Over/(Under) PUC Approved	2015 Plant Addition Qualifying for RB RAM (Note 1)	Future Years [1]
	Date		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]
Y00038	P0001370: DOT Airport DSC	Production Other	3,400,000 [1a]	(1,953,000) [1a]	5,393,000 [1a]	4,965,396 [1a]	81,914 [1a]	5,047,310 [1a]	(645,000) [1a]	81,914 [1a]	162,361 [1a]
	201405	Transmission	4,113,444 [1b]	-	4,113,444	3,449,859 [1b]	50,132 [1b]	3,499,991 [1b]	(663,653) [1b]	50,132 [1b]	-
	201304	Transmission	4,504,730 [1b]	-	4,504,730	4,327,887 [1b]	(15,782) [1b]	4,312,105 [1b]	(189,625) [1b]	(15,782) [1b]	-
	201307	Distribution	3,627,507 [1c]	-	3,627,507	7,146,981 [1c]	675,000 [1c]	7,821,981 [1c]	4,194,474 [1c]	-	-
	201404	Distribution	4,013,624 [1d]	-	4,013,624	4,958,840 [1d]	3,623,229 [1d]	6,582,069 [1d]	2,568,445 [1d]	-	-
	201404	Distribution	1,170,090 [1e]	(3,847,195) [1e]	5,017,285 [1e]	1,961,600 [1e]	3,850,930 [1e]	5,812,530 [1e]	795,245 [1e]	- [1d]	-
			5,183,714 [1e]	(3,847,195) [1e]	9,030,909 [1e]	6,920,440 [1e]	5,474,159 [1e]	12,394,599 [1e]	3,363,600 [1e]	-	-
	201403	Distribution				6,548,755 [1f]	925 [1f]	6,548,680 [1f]	- [1f]	-	-
	201403	Distribution				1,218,895 [1f]	- [1f]	1,218,895 [1f]	- [1f]	-	-
	201403	Communication				171,237 [1f]	- [1f]	171,237 [1f]	- [1f]	-	-
	201306	Distribution				25,906 [1f]	- [1f]	25,906 [1f]	- [1f]	-	-
	201306	Land				2,276,439 [1f]	- [1f]	2,276,439 [1f]	- [1f]	-	-
	201303	Distribution				2,099,046 [1f]	3,488 [1f]	2,102,534 [1f]	- [1f]	-	-
			12,055,427 [1a]	(2,173,999) [1a]	14,229,426 [1a]	12,340,278 [1a]	4,413 [1a]	12,344,691 [1a]	(1,844,735) [1a]	4,413 [1a]	-
Y48500	COTP Ph2	Distribution	10,059,000 [1i]	(5,101,463) [1i]	15,160,463 [1i]	14,869,436 [1i]	8,814 [1i]	14,878,250 [1i]	(282,213) [1i]	8,814 [1i]	-
	201412	Production Steam	6,995,582 [1j]	-	6,995,582 [1j]	6,995,787 [1j]	1,098,559 [1j]	7,194,346 [1j]	198,764 [1j]	899,795 [1j]	-
											<u>3,029,238</u>

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 & Order and Dissenting Opinions of Leslie H. Iwatake, 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 by 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. 2008-0319. 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 Net Costs in Hawaiian Electric Company, Inc.'s Energy Cost Adjustment Clause, and Approval to Commit Funds in Excess of \$2,500,000, filed June 23, 2009. The PUC approved amount of \$1,400,000 in net contributions. Gross plant additions of \$5,047,310 net of contributions. Gross plant additions of \$5,047,310 net of \$1,993,000 contributions received in 2012 reported on Schedule G.1.1.6 \$3,054,310 and is \$345,690 less than the PUC approved amount of \$3.4M net of CIAC. Therefore, the total estimated 2015 gross plant additions of \$8,191,4 quality 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 \$2,500,000 (excluding customer contributions) for Item P0001494, Puleia T-1 #3 80MVA, Item P0001493, Puleia T-1 #2 80MVA, and Item D002264, Puleia T-1 #1 80MVA, filed October 12, 2011.

[1c] See HECO-WP-02-001

[1d] Letter from D. Enjo-Ometo, Exhibit IX Page 2 of 5. To: Commission. Re: Docket No. 2009-0042, DOT Underground Request/Kaakaio 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 IX, Page 2 of 5 of \$4,160,050 and reducing it by the amount of expected contributions as reported on Exhibit IX Page 1 of 5 of \$2,987,960 (In-kind CIAC) and \$902,265 (Cash CIAC). As the current estimate of total CIAC is now \$3,847,195 (forecast as of 2/23/2015 per HECO-WP-02-001), 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 \$2,500,000 (excluding customer contributions) for Item Y00038, DOT Underground Request, and Kaakaio Makai 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	D&O	Estimate	Difference
P0001579 - D&O in current estimate:			
Gross Plant Additions Qualifying for RB RAM	4,160,050	5,017,285	857,235
Less: CIAC (Cash and In-Kind)	(2,987,960)	(3,847,195)	(857,235)
PUC Approved Net Plant Additions	1,170,090	1,170,090	-

[1e] 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 Y00119, Kaio Substation, Kaio 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 \$12,055,427 net of CIAC. 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 CIAC of \$2,173,999 for the University of Hawaii. The Over/(Under) PUC Approved amount in column G of \$1,854,735 was determined by taking the total gross plant addition of \$12,344,691, less the gross amount qualifying for RB RAM of \$14,229,426. Therefore, the total estimated 2015 gross plant additions of \$4,413 qualify for inclusion in the rate base RAM calculation.

[1f] Amount represents PUC approved amount for grandparent project Y48500, EOTP Phase 2. See HECO-WP-02-001.

[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.

[1h] Source: HECO Schedule G1 and G2.

[1i] Source: HECO-WP-02-001

[1j] Source: UPLanner 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	(8,385,296.46)	(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&LTIP)	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	84,575.86	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	Supplem 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	Gen/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	Gen/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	(18,969.99)	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	Sun 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	(16,130,963.96)	(2,949,647.61)	(19,080,611.57)
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)
		FEDERAL	STATE	TOTAL
LIAB	DESCRIPTION	DEF TAX	DEF TAX	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&LTIP)	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	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
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
28538	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)	(8,206.93)	(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) FEDERAL	DR / (CR) STATE	DR / (CR) 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)
	<b>TOTAL DEF INCOME TAX - RATE BASE</b>	<b>(392,765,188.70)</b>	<b>(45,139,484.20)</b>	<b>(437,904,672.90)</b>
* 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 PLUC Approved Amt	Disallowed Costs	Plant Acct Life	Bonus	2011	2012	2013	2014
<b>FEDERAL</b>											
P7650000	8/23/2011	W8 Boiler Controls Upgrade	6,165,261	5,236,138	929,123	Steam	50	481,983	33,537	31,019	28,696
	v2012	W8 Boiler Controls Upgrade	118,460		118,460	Steam	50		61,451	4,276	3,955
	v2013	W8 Boiler Controls Upgrade	45,384		45,384	Steam	50			23,543	1,638
	v2014	W8 Boiler Controls Upgrade	(18,503)		(18,503)	Steam	50				(9,598)
		<b>Total</b>	<b>6,310,602</b>	<b>5,236,138</b>	<b>1,074,464</b>			<b>481,983</b>	<b>94,988</b>	<b>58,838</b>	<b>24,691</b>
		<b>Cumulative</b>						<b>481,983</b>	<b>576,971</b>	<b>635,809</b>	<b>660,500</b>
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<b>HAWAII</b>											
P7650000	8/23/2011	W8 Boiler Controls Upgrade	6,165,261	5,236,138	929,123	Steam	20	34,842	67,073	62,038	57,392
	v2012	W8 Boiler Controls Upgrade	118,460	-	118,460	Steam	20		4,442	8,552	7,910
	v2013	W8 Boiler Controls Upgrade	45,384	-	45,384	Steam	20			1,702	3,276
	v2014	W8 Boiler Controls Upgrade	(18,503)	-	(18,503)	Steam	20				(694)
		<b>Total</b>	<b>6,310,602</b>	<b>5,236,138</b>	<b>1,074,464</b>			<b>34,842</b>	<b>71,515</b>	<b>72,292</b>	<b>67,884</b>
		<b>Cumulative</b>						<b>34,842</b>	<b>106,357</b>	<b>178,649</b>	<b>246,533</b>
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**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
<b>FEDERAL</b>											
P7590000	11/2/2011	W7 Controls Upgrade	5,009,888	5,021,440	(11,552)	Steam	20	(5,993)	(417)	(386)	(357)
	v2012	W7 Controls Upgrade	119,081		119,081	Steam	20		61,773	4,298	3,976
	v2013	W7 Controls Upgrade	308,336		308,336	Steam	20			159,949	11,129
	v2014	W7 Controls Upgrade	8,237		8,237	Steam	20				4,273
		<b>Total</b>	<b>5,445,542</b>	<b>5,021,440</b>	<b>424,102</b>			<b>(5,993)</b>	<b>61,356</b>	<b>163,861</b>	<b>19,021</b>
		<b>Cumulative</b>						<b>(5,993)</b>	<b>55,363</b>	<b>219,224</b>	<b>238,245</b>
HECO-WP-D4-002 page 1											
<b>HAWAII</b>											
P7590000	11/2/2011	W7 Controls Upgrade	5,009,888	5,021,440	(11,552)	Steam	20	(433)	(834)	(771)	(714)
	v2012	W7 Controls Upgrade	119,081		119,081	Steam	20		4,466	8,596	7,951
	v2013	W7 Controls Upgrade	308,336		308,336	Steam	20			11,563	22,259
	v2014	W7 Controls Upgrade	8,237		8,237	Steam	20				309
		<b>Total</b>	<b>5,445,542</b>	<b>5,021,440</b>	<b>424,102</b>			<b>(433)</b>	<b>3,632</b>	<b>19,388</b>	<b>29,805</b>
		<b>Cumulative</b>						<b>(433)</b>	<b>3,199</b>	<b>22,587</b>	<b>52,392</b>
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**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
<b>FEDERAL</b>											
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											
<b>HAWAII</b>											
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>
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**HAWAIIAN ELECTRIC CO., INC.  
EXCESS TAX DEPRECIATION  
KAHUKU WIND**

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

Project No.	DIS	Description	Total Basis	Less PUC Approved Amt	Disallowed Costs	Plant Acct Life Bonus	2013	2014
<b>FEDERAL</b>								
P0000783	7/-/13	Kakaako Makai-Iwilei 25Kv DL	6,661,331	3,627,507	3,033,824	20	1,573,796	109,506
	v2014	Kakaako Makai-Iwilei 25Kv DL	485,650		485,650	20		251,931
		<b>Total</b>	<b>7,146,981</b>	<b>3,627,507</b>	<b>3,519,474</b>		<b>1,573,796</b>	<b>361,437</b>
		<b>Cumulative</b>					<b>1,573,796</b>	<b>1,935,233</b>
HECO-WP-D4-002 page 1								
<b>HAWAII</b>								
P0000783	7/-/13	Kakaako Makai-Iwilei 25Kv DL	6,661,331	3,627,507	3,033,824	20	113,768	219,012
	v2014	Kakaako Makai-Iwilei 25Kv DL	485,650		485,650	20		18,212
		<b>Total</b>	<b>7,146,981</b>	<b>3,627,507</b>	<b>3,519,474</b>		<b>113,768</b>	<b>237,224</b>
		<b>Cumulative</b>					<b>113,768</b>	<b>350,992</b>
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**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
<b>FEDERAL</b>								
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
<b>HAWAII</b>								
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 Add'l Debt	2012 Add'l Debt	2013 Add'l Debt	2014 Add'l Debt	Cumulative Add'l Debt	32.8947% Def Fed	6.0150% Def State	Total 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)
<b>Total EOTP</b>	<b>450,028</b>	<b>66,861</b>	<b>(98,460)</b>	<b>(98,460)</b>	<b>319,969</b>	<b>105,253</b>	<b>19,246</b>	<b>124,499</b>
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)
<b>Total CIP</b>	<b>415,582</b>	<b>726,147</b>	<b>178,305</b>	<b>(243,699)</b>	<b>1,076,335</b>	<b>354,057</b>	<b>64,742</b>	<b>418,799</b>
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)	(30,285)	(5,540)	(35,835)
<b>Total CIS</b>	<b>-</b>	<b>545,064</b>	<b>119,007</b>	<b>(58,167)</b>	<b>605,904</b>	<b>199,311</b>	<b>36,445</b>	<b>235,756</b>
<b>TOTAL</b>	<b>865,610</b>	<b>1,338,072</b>	<b>198,852</b>	<b>(400,326)</b>	<b>2,002,208</b>	<b>658,621</b>	<b>120,433</b>	<b>779,054</b>

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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 - NOL 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 Amend/RAR Return Fed Taxable Inc (Loss)	2011 Tax Ret Fed Taxable Inc (Loss)	2011 Amend/RAR Return Fed Taxable Inc (Loss)	2012 Amend/RAR Return Fed Taxable Inc (Loss)	2012 Tax Ret Fed Taxable Inc (Loss)	2012 Amend/RAR Return Fed Taxable Inc (Loss)	2013 Amend/RAR Return Fed Taxable Inc (Loss)	2013 Tax Ret Fed Taxable Inc (Loss)	2014 Amend/RAR Return Fed Taxable Inc (Loss)	2014 Tax Ret Fed Taxable Inc (Loss)	2014 Amend/RAR Return Fed Taxable Inc (Loss)	2014 Tax Ret Fed Taxable Inc (Loss)	2014 Amend/RAR Return Fed Taxable Inc (Loss)	2014 Tax Ret Fed Taxable Inc (Loss)		
1 HECO, RHI, UBC	46,592,802	(2,452,466)	(63,882,338)	7,553,875	1,740,726	(32,023,685)	18,294,269	9,007,741	(43,298,675)	4,426,286	(41,846,624)	42,844,094	(130,743,974)	14,995,433	(45,760,391)	(130,743,974)	(45,760,391)	
2 HELCO	7,457,349	(202,927)	7,027,753	1,131,558	(9,920)	2,370,605	4,157,335	1,813,095	718,673	2,082,551	2,082,551	8,427,295	19,444,084	2,949,553	6,805,429	19,444,084	6,805,429	
3	54,050,151	(2,655,393)	(56,854,585)	8,885,433	1,730,806	(29,653,060)	22,451,604	10,820,836	(42,580,002)	4,426,286	(39,764,073)	51,271,389	(111,299,890)	17,944,986	(38,954,962)	(111,299,890)	(38,954,962)	
4 MECO	5,388,129	9,472	(18,886,182)	942,477	(2,568)	(7,725,101)	3,485,656	1,802,724	(11,713,967)	4,426,286	(11,713,967)	5,573,500	(32,714,373)	1,950,725	(11,450,031)	(32,714,373)	(11,450,031)	
5	59,438,280	(2,645,921)	(75,740,767)	9,827,910	1,728,238	(37,378,181)	25,937,260	12,623,560	(54,293,969)	4,426,286	(39,548,229)	56,844,889	(144,014,263)	19,895,711	(50,404,993)	(144,014,263)	(50,404,993)	
<b>Adjustments</b>																		
6 HECO	(235,204)			7,753,875			18,294,269	9,007,741		4,426,286	(41,846,624)	42,844,094	(130,743,974)	14,995,433	(45,760,391)	(130,743,974)	(45,760,391)	
7 HELCO	(367,462)			1,131,558			4,157,335	1,813,095		718,673	2,082,551	8,427,295	19,444,084	2,949,553	6,805,429	19,444,084	6,805,429	
8	(602,666)			8,885,433			22,451,604	10,820,836		4,426,286	(39,764,073)	51,271,389	(111,299,890)	17,944,986	(38,954,962)	(111,299,890)	(38,954,962)	
9 MECO	(1,654,816)			942,477			3,485,656	1,802,724		(11,713,967)	215,844	5,573,500	(32,714,373)	1,950,725	(11,450,031)	(32,714,373)	(11,450,031)	
10	(2,257,482)			9,827,910			25,937,260	12,623,560		(54,293,969)	(39,548,229)	56,844,889	(144,014,263)	19,895,711	(50,404,993)	(144,014,263)	(50,404,993)	
<b>As Adjusted</b>																		
11 HECO	46,357,598	(2,452,466)	(56,128,463)	7,553,875	1,740,726	(13,729,416)	18,294,269	9,007,741	(43,298,675)	4,426,286	(41,846,624)	42,844,094	(130,743,974)	14,995,433	(45,760,391)	(130,743,974)	(45,760,391)	
12 HELCO	7,089,887	(202,927)	8,159,311	1,131,558	(9,920)	6,527,940	4,157,335	1,813,095	718,673	2,082,551	2,082,551	8,427,295	19,444,084	2,949,553	6,805,429	19,444,084	6,805,429	
13	53,447,485	(2,655,393)	(47,969,152)	8,885,433	1,730,806	(7,201,476)	22,451,604	10,820,836	(42,580,002)	4,426,286	(39,764,073)	51,271,389	(111,299,890)	17,944,986	(38,954,962)	(111,299,890)	(38,954,962)	
14 MECO	3,733,313	9,472	(17,943,705)	942,477	(2,568)	(4,239,445)	3,485,656	1,802,724	(11,713,967)	4,426,286	(11,713,967)	5,573,500	(32,714,373)	1,950,725	(11,450,031)	(32,714,373)	(11,450,031)	
15	57,180,798	(2,645,921)	(65,912,857)	9,827,910	1,728,238	(11,440,921)	25,937,260	12,623,560	(54,293,969)	4,426,286	(39,548,229)	56,844,889	(144,014,263)	19,895,711	(50,404,993)	(144,014,263)	(50,404,993)	

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)
<b>Total adjustments</b>	<b>(235,204)</b>	<b>7,753,875</b>	<b>18,294,269</b>	<b>9,007,741</b>	<b>8,023,413</b>

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)
<b>Total adjustments</b>	<b>(367,462)</b>	<b>1,131,558</b>	<b>4,157,335</b>	<b>1,813,095</b>	<b>1,692,769</b>

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)
<b>Total adjustments</b>	<b>(1,654,816)</b>	<b>942,477</b>	<b>3,485,656</b>	<b>1,802,724</b>	<b>997,459</b>
	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 #	Project	DHS	[1]	Net Plant Adds Thru 12/31/13	(A) [1]	Net Plant Adds Thru 12/31/14	(B) [1]	Plant Acct	Docket No 2010-0053	(C)	2014 Depr	(D) = (A) * (C)	2015 Depr	(E) = (B) * (C)	(F) [1]	PUC Approved	2013 Cost in Excess of Docket	(G) = (A) - (F)	2014 Cost in Excess of Docket	(H) = (B) - (F)	[3] Prior Years Depr Related to Excess	2014 Depr Related to Excess	(I) = (G) / (A) * (D)	(J) = (H) / (B) * (E)	2015 Depr Related to Excess	
P7650000	WB Boiler Controls Upgrade	2011/08		6,310,602	6,329,105		6,310,602	312	0.02030		128,481	128,105	5,236,138	1,074,464	40,127	22,187	1,074,464	1,092,967	1,074,464	40,127	21,812					21,812
P0001399	WB Main Transformer Replace	2011/08		2,600,439	2,600,439		2,600,439	315	0.07430		63,191	63,191	2,357,425	243,014	13,629	5,905	243,014	243,014	243,014	13,629	5,905					5,905
Y00138	Kahuku Wind Power	2010/12		2,132,812	2,132,812		2,132,812	397	0.06670	[2]	338,940	338,940	2,125,651	7,161	5,639		7,161	7,161	7,161	5,639	8,442					478
P7590000	WT Controls Upgrade	2011/11		5,437,305	5,437,305		5,445,542	312	0.02030		110,377	110,545	5,021,440	424,102	2,183		424,102	415,865	415,865	424,102	2,183	8,442				8,609
Y00038	Kaakaio Makai-weller 25KV DL	2013/07		6,197,599	6,197,599		6,566,629	367	0.04980		308,640	331,998	3,383,701	3,382,938			3,382,938	2,813,898	2,813,898	3,382,938					163,490	
				463,732	463,732		480,352	368	0.05200		24,114	24,978	243,806	243,806			243,806	218,926	218,926	243,806					12,300	
				6,661,331	6,661,331		7,146,981				332,754	356,976	3,627,507	3,519,474			3,519,474	3,033,624	3,033,624	3,519,474					175,790	
Y00038	Kaakaio Makai-Kewalo 25KV DL	2014/04		4,950,840	4,950,840		4,950,840	367	0.04980			246,950	246,950	4,013,624	945,216		945,216			945,216						47,072
	Kaakaio Makai DOT Queen-Cook	2014/04		93,649	93,649		93,649	364	0.03990			3,175	3,175	55,861	37,788		37,788			37,788						1,281
				67,769	67,769		67,769	365	0.04190			2,840	2,840	40,424	27,345		27,345			27,345						1,146
				26,632	26,632		26,632	366	0.02190			583	583	15,886	10,746		10,746			10,746						235
				1,524,994	1,524,994		1,524,994	367	0.04980			75,945	75,945	909,656	615,338		615,338			615,338						30,644
				248,556	248,556		248,556	368	0.05200			12,925	12,925	148,263	100,283		100,283			100,283						5,215
				6,920,840	6,920,840		6,920,840					342,417	342,417	5,183,714	1,736,726		1,736,726			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				
Communication	20				
Comp/Off/Furn/Tools	7				
Distribution	20	89,542,000	24.09%	21,566,234	67,975,766
Land	-				
Non-Steam Production	15	2,495,000	0.00%	0	2,495,000
Steam Production	20	30,149,000	17.26%	5,202,292	24,946,708
Structural	39				
Transmission	20	16,893,000	3.84%	648,876	16,244,124
Transmission	15	28,263,000	3.84%	1,085,608	27,177,392
Vehicles	-				
<b>TOTAL</b>	<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				
<b>Total book basis repairs</b>					
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
		<b>117,428,581</b>	<b>0</b>	<b>32,307,738</b>	<b>11,284,783</b>
<b>Total book basis adds</b>					
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
		<b>487,558,000</b>	<b>21,315,000</b>	<b>187,234,000</b>	<b>293,791,000</b>
<b>AVERAGE %</b>		<b>24.085049%</b>	<b>0.000000%</b>	<b>17.255273%</b>	<b>3.841092%</b>

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**

<u>Grandparent</u>	<u>Project</u>	<u>Functional Category</u>	<u>Project &gt; Plant Addition Date</u>	<u>Project to Date Recorded 12/31/14</u>	<u>2015 CIAC Additions</u>	<u>Future Years</u>
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	Excass	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

	<u>Simple Average 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	Trial Balance: B20	821,246	18.8	42,300
2	Purchased Power	GL #555	537,821	(1.6)	(2,358)
3	Current Income Taxes				
4	Income Tax	Dec. 2014 PUC Monthly Report, Page 2	(5,163)		
5	Income Tax related to Disallowed Items	HECO WP-H-002	3,459		
6	Reversal of Tax Related to Int Synch Replacement	Sch H-Line 2d	16,253		
7	Tax Eff of AFUDC Equity	GL #420100	(3,875)		
8	Tax Related to Int Synch	Sch H-line 13 - 13a	(15,035)		
9	Total	Sum of Line 4-8	(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	Sum of Line 11-13	191,873	(52.5)	(27,598)
15	O&M Labor				
16	O&M labor	Acct. Dept. O&M report	125,404		
17	Fuel O&M labor	Acct. Dept. O&M report	(1,507)		
18	O&M Labor Excl Fuel Labor	Line 16 + 17	123,896		
19	Disallow O&M	HECO WP-H-002	(3,419)		
20	Total	Line 18 + 19	120,477	25.2	8,318
21	O&M Non-Labor				
22	O&M Expense	Trial Balance: G30 (see O&M Labor Excl Fuel Labor above)	282,232		
23	O&M Labor Excl Fuel Labor		(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)		
		Sum of Line 22-28	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	Sum of Line 1, 2, 9, 14, 20, 27, 28, 29			<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>	Portion <u>70.69%</u> Note 1	
(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>	Portion <u>70.69%</u> Note 1	
(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	

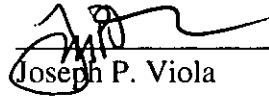
Footnote:

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

VERIFICATION

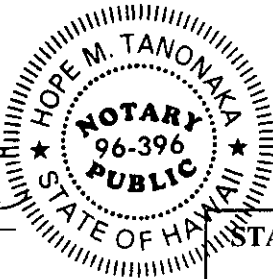
STATE OF HAWAI'I )  
 ) ss.  
CITY AND COUNTY OF HONOLULU )

Joseph P. Viola, being first duly sworn, deposes and says: That he is Vice President, Regulatory Affairs, of Hawaiian Electric Company, Inc., Applicant in the above proceeding; that he makes this verification for and on behalf of Hawaiian Electric Company, Inc., and is authorized so to do; that he has read the foregoing Application, and knows the contents thereof; and that the same are true of his own knowledge except as to matters stated on information or belief, and that as to those matters he believes them to be true.

  
\_\_\_\_\_  
Joseph P. Viola

Subscribed and sworn to before me this 31<sup>st</sup> day of March, 2015.

Hope M. Tanonaka



Hope M. Tanonaka  
Notary Public, State of Hawai'i

My Commission expires 7/18/2016

STATE OF HAWAI'I NOTARY CERTIFICATION	
Doc. Date: <u>3/31/15</u>	# of pages <u>115</u>
Notary Name: <u>Hope M. Tanonaka</u> First Circuit	
Doc. Description: <u>HECO - Transmittal # 15-03 (Decoupling)</u>	
<u>Hope M. Tanonaka</u>	<u>3/31/15</u>
Notary Signature	Date

CERTIFICATE OF SERVICE

I hereby certify that the foregoing Transmittal No. 15-03 was served on the date of filing  
by hand delivery, as indicated below.

Jeffrey T. Ono  
Executive Director  
Division of Consumer Advocacy  
Department of Commerce and Consumer Affairs  
335 Merchant Street, Room 326  
Honolulu, Hawai'i 96813

2 copies  
via Hand Delivery

Dated: Honolulu, Hawai'i, March 31, 2015.

HAWAIIAN ELECTRIC COMPANY, INC.



Tyler Oya