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FILED

PUBLIC UTILITIES COMMISSION

BEFORE THE PUBLIC UTILITIES COMMISSION

OF THE STATE OF HAWAI'I

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In the Matter of the Application of HAWAI'I ELECTRIC LIGHT COMPANY, INC. For approval to modify the RBA Rate Adjustment in Its Revenue Balancing Account Provision Tariff

Transmittal No. 17-03 (Decoupling)

Effective Date: June 1, 2017

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Hawai'i Electric Light Company, Inc. ("Hawai'i Electric Light" or "Company") files this transmittal to revise paragraph E (Tariff Revised Sheet No. 91C) of its Revenue Balancing Account ("RBA") Provision tariff ("RBA Tariff") to revise the RBA Rate Adjustment by \$0.000292 from the current rate of \$0.014241 per kilowatt-hour ("kWh") to the new rate of \$0.014533 per kWh, effective June 1, 2017 through May 31, 2018. The RBA Rate Adjustment is based on the Company's RBA balance at the end of 2016 and the Company's Rate Adjustment Mechanism ("RAM") Revenue Adjustment for calendar year 2017.

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Hawai'i Electric Light, whose executive office is located at 1200 Kilauea Avenue, Hilo, Hawai'i, is a corporation duly organized under laws of the Republic of Hawai'i on or about December 5, 1894, and now exists under and by virtue of the laws of the State of Hawai'i. Hawai'i Electric Light is an operating public utility engaged in the production, purchase,

transmission, distribution and sale of electricity on the island of Hawai'i.

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Correspondence and communications in regard to this Transmittal No. 17-03 are to be addressed to:

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IV

Hawai'i Electric Light 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. The proposed tariff revisions are in accordance with the Final Decision and Order in Docket No. 2008-0274, Order No. 32735 in Docket No. 2013-0141 and other orders as explained herein.

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Pursuant to HAR §6-61-76, Hawai'i Electric Light incorporates by reference its latest available balance sheet and income statement for the twelve months ending February 28, 2017 filed with the Commission on March 30, 2017. Beginning in 2012, Hawai'i Electric Light filed tariff transmittals to annually establish an RBA Rate Adjustment, which the Commission subsequently approved.¹ 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 Companies² 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.³ 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 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

¹ Refer to Transmittal Nos. 12-03, 13-02, 14-04, 15-04, and 16-02 filed April 11, 2012, March 28, 2013, March 31, 2014, March 31, 2015, and March 31, 2016 respectively, and approved in Order No. 30435 Approving HELCO's Tariff Transmittal Filed on April 11, 2012, as Revised on April 18, 2012, Order No. 31287 Consolidating Proceedings and Approving Multiple Tariff Transmittals, Order No. 32112 Consolidating Proceedings and Approving Tariff Transmittals, Order No. 32724 Consolidating Proceedings, Providing Clariff Transmittals, as revised on June 3, 2015, and Order No. 33724 Consolidating Proceedings, Providing Clarifications, and Approving Tariff Transmittals As Amended, respectively. For information on past years' filings as well as additional background information on decoupling, refer to the transmittals cited here.

² The "Companies" or "Hawaiian Electric Companies" are Hawaiian Electric, Hawai'i Electric Light and Maui Electric Company, Limited ("Maui Electric").

³ See Order No. 31289 Initiating Investigation, issued May 31, 2013 in Docket No. 2013-0141.

balance, 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.⁴ 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.

On March 31, 2015, the Commission issued Order No. 32735 in Docket No. 2013-0141, which directed the Companies to make certain modifications to their decoupling mechanisms to be applied beginning with the Companies' 2015 decoupling filings. Among other things, the Commission ordered the following:

- 1) The RBA shall be retained;
- 2) The RAM mechanism shall be modified to include a cap that shall be applied to the total annual RAM Revenue Adjustment. The cap shall limit

⁴ 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 automatic component of RAM adjustment increases to an amount equal to or lower than the Gross Domestic Product Price Index ("GDPPI");

- 3) The 90% adjustment shall be removed in favor of the GDPPI cap;
- 4) The Commission will allow the Companies to apply for approval by the Commission, on a case by case basis, to recover revenues outside of and in addition to the capped RAM revenues.⁵ The Companies and the Consumer Advocate shall develop criteria for the Commission's review for recovery of these costs (which may include consolidated or "programmatic" baseline expenditures) through the RAM or the Renewable Energy Infrastructure Program ("REIP") surcharge; ⁶ and
- 5) The changes in items 1 through 4 above shall be made effective on an interim basis pending commission resolution of the proceedings concerning the Companies' Power Supply Improvement Plans in Docket No. 2014-0183.⁷

Among the modifications to the RAM, the Commission amended the RAM Revenue

Adjustment to be the lesser of (a) the RAM Revenue Adjustment determined according to

"existing" tariffs and procedures ("Original RAM Methodology") or (b) a RAM Revenue

⁵ The Commission remained "mindful of cautions expressed by the parties regarding the possible consequence of implementing caps or limits on RAM revenue recovery" and recognized the Companies' "need to finance necessary capital investments[,]" while sharing concerns expressed by the Companies that increasing the revenue requirement by inflation alone is unlikely to provide the Companies with sufficient revenue to invest as needed to meet Hawai'i's goals while also providing the Companies a fair opportunity to earn their cost of capital. Order No. 32735 at 85-87. ⁶ On June 15, 2015, in Docket No. 2013-0141, 1) the Companies filed their proposed Hawaiian Electric Companies Standards and Guidelines for Eligibility of Projects for Cost Recovery through the RAM above the RAM Cap, and 2) the Companies and the Consumer Advocate filed their Joint Proposed Modified REIP Framework/Standards and Guidelines.

⁷ Order No. 32735 at 5-7.

Adjustment Cap ("RAM Cap"). The RAM Cap shall be based on the target revenues⁸ determined in accordance with the RBA and RAM tariffs times the cumulative annually compounded increase(s) in GDPPI for intervening years, adjusted to include applicable revenue taxes.⁹ The RAM Cap will apply to the entire RAM Revenue Adjustment including the Operation and Maintenance ("O&M") RAM, Rate Base RAM (including major capital and baseline projects), and the Depreciation and Amortization RAM.¹⁰

For each of the Hawaiian Electric Companies, for the calculation of the RAM Cap for the 2015 RAM Revenue Adjustment and until issuance of a final decision and order in the next rate case for each Company, the target revenues that will serve as the basis for the incremented cap will be the 2014 annualized target revenues.¹¹ Following the issuance of a final decision and order in a rate case, the basis for the calculation of the RAM Cap shall be the target revenues determined in accordance with the RBA tariff based on the results of the Company's most recent final rate case decision.¹²

VII

By this Transmittal, Hawai'i Electric Light proposes to revise its decoupling RBA Rate Adjustment from the current rate of \$0.014241 per kWh to the new rate of \$0.014533 per kWh, effective June 1, 2017 through May 31, 2018.

⁸ Order No. 32735 at 95-96.

⁹ Order No. 32735 at 94.

¹⁰ Order No. 32735 at 96.

¹¹ Order No. 32735 at 95.

¹² Order No. 32735 at 96.

¹³ On September 19, 2016, Hawai'i Electric Light filed its 2016 test year rate case in Docket No. 2015-0170 ("2016 Rate Case"). Upon receiving a final decision and order from the Commission, the following RAM will be calculated based on the target revenues established by the Commission's final decision and order in the 2016 Rate Case.

The Company calculated its RBA Rate Adjustment according to its RBA and RAM tariff provisions¹⁴ and the provisions of Order Nos. 32735 and 32866. The 2017 RBA Rate Adjustment includes the recovery of the RBA balance at year end 2016 and the calculated RAM revenue adjustment for calendar year 2017. Approximately 22% of the RBA Rate Adjustment includes the recovery of the RBA balance at year end 2016, while 78% corresponds to the 2017 RAM Revenue Adjustment. There are no adjustments to the RBA Rate Adjustment for earnings sharing revenue credits or for Commission-ordered major capital project credits or baseline capital project credits. (Refer to Schedule A of Attachment 2 described in Section VIII of this tariff transmittal.) Based on the revised rate, a monthly bill for a Hawai'i Electric Light residential customer using 500 kWh of electricity would increase by \$0.15.¹⁵

The 2017 RBA Rate Adjustment will replace the 2016 RBA Rate Adjustment in the Company's Revenue Balancing Account Provision tariff and, as more fully discussed below, reflects the RBA balance as of the end of 2016, and the RAM Revenue Adjustment based on the Original RAM Methodology. The following sections explain the amounts that make up the 2017 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.¹⁶ The approved RBA tariff allows Hawai'i Electric Light to record revenues only at target revenue levels (i.e., those authorized in the 2010 test year rate case plus the effective RAM Revenue Adjustments, less any applicable earnings sharing and/or major

¹⁴ Refer to Tariff Revised Sheet Nos. 89, 89A – 89H, 91 and 91A – 91D.

¹⁵ The monthly bill impact for a household using 500 kWh with the revised rate would be \$7.27 as compared to \$7.12, based on the current rate.

¹⁶ Decision and Order No. 30168, issued February 8, 2012 in Docket No. 2009-0164, page 97.

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 3.25%, 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 Decision and 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 RBA balance at the end of 2016 was \$3.0 million, and consisted of revenues recorded in the RBA as a result of decoupling, net of the amounts recovered through the RBA Rate Adjustment, since the inception of decoupling at Hawai^ci Electric Light in 2012. This is a decrease of \$2.3 million from the RBA balance at the end of 2015 of \$5.3 million, and was the result of Hawai^ci Electric Light recovering \$6.5 million of the RBA balance through the RBA Rate Adjustment and recording \$4.3 million in revenues,¹⁷ adjustments, and interest for 2016. Therefore, the 2016 year-end balance of \$3.0 million represents the unrecovered cumulative RBA balance and additional amounts due to a shortfall in revenues¹⁸ resulting from lower sales in 2016. Because the revenues associated with the RBA balance have already been recorded, they have already been reflected in the Company's net income and will not contribute to the Company's earnings in 2017. The 2016 year-end RBA balance of \$3.0 million is grossed-up to \$3.3 million to include revenue taxes.

¹⁷ This represents the difference between target revenues and recorded adjusted revenues, plus any adjustments for 2016.

¹⁸ That is, "recorded adjusted revenue" as defined in the RBA Tariff.

Hawai'i Electric Light's 2016 recorded sales totaled 1,067.4 gigawatt-hours ("GWh"), which was 55.3 GWh, or 4.9% lower than the 1,122.7 GWh test year amount (based on the March 2009 forecast) adopted in the Hawai'i Electric Light 2010 test year rate case. The actual sales in 2016 was relatively flat when compared to sales in 2015 and 2014, however, it was lower than previous years 2013, 2012, 2011, and 2010.¹⁹

The residential and commercial sectors both experienced lower sales in 2016 compared to 2010 test year levels, with the larger shortfall of 9.6% in the residential sector where customers decreased their average monthly usage by 14.6%, as compared to the commercial sales shortfall of 2.0% (see Table 1 below).

¹⁹ The actual sales for 2010 totaled 1,109.7 GWh, a difference of 13.0 GWh, or -1.2%, from the test year estimate. The actual sales in 2011, 2012, 2013, 2014, 2015 and 2016 were 1,103.6 GWh, 1,085.1 GWh, 1,076.1 GWh, 1,062.5 GWh, 1,064.8 GWh and 1,067.4 GWh respectively. It should be noted that, if the 2010 test year sales estimate had been lower (e.g., closer to actual sales for 2010), 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. As a result, the net impact on customers over the period between rate cases would have been the same.

									Difference	
		2010	2011	2012	2013	2014	2015	2016	2016 &	
	TY2010	Actuals	TY2010	% Diff						
Residential Se										
Sales (GWb)	427.2	430.9	426.8	409.8	395.7	386.6	388.4	386.0	(41.2)	-9.6%
Customers	67,509	67,278	68,055	68,786	69,461	70,103	70,812	71,518	4,009	5.9%
Average Moi	527	534	523	496	475	460	457	450	(77)	-14.6%
Renewable (3.5	2.8	5.8	13.5	31.4	42.1	58.2	75.0	71.5	2042.9%
Energy Effic	11.7	17.7	27.2	38.7	47.0	53.5	61.0	•	49_3	421.5%
Electricity Pr	35.3	35.3	41.9	42.5	42.1	41.9	34.6	31.5	(3.8)	-10.8%
Commercial :	Sector									
Sales (GWh)	695.5	678.8	676.8	675.3	680.4	675_9	676.4	681.4	(14.1)	
Customers	13,574	12,894	12,752	12,729	12,807	12,996	13,048	13,090	(484)	-3.6%
Renewable C	7.2	2.9	10_1	12.5	23.3	25.2	31.2	35.6	28.4	394.4%
Energy Effic	30.3	26.6	28.2	33.0	37.1	40.7	45.1		14.8	48.9%
Electricity Pi	32.3	32.3	39.0	39.3	38.7	38.3	30.9	27,6	(4.7)	-14.6%
Total Sales (1,122.7	1,109.7	1,103.6	1,085.1	1,076.1	1,062.5	1,064,8	1,067.4	(55.3)	-1.9%
% Difference	:	-1.2%	-0.5%	-1.7%	-0.8%	-1.3%	0.2%	0.2%		
Weather										
Cooling Degr	ee Days ⁴ Hil	3,282	3,287	3,175	3,557	3,640	4,167	3,991		
Cooling Degr	ee Days ⁴ Ko	4,336	4,655	4,595	4,90\$	5,170	5,448	5,272		
Average Dew	Point Temp	63.6	64.8	64.6	65.2	67.2	67.4	67.0		
Average Dew	Point Temp	63.5	64.9	64.0	65.2	66.5	67.4	67 .7		

Table 1 Comparison of 2016 Actuals to TY2010

¹ Cumulative impacts are from systems installed under the NEM, SIA, FIT and CGS Tariffs.

TY2010 did not include impacts under FIT. Data subject to change.

² Actuals include impacts provided by Hawaii Energy. Data subject to change.

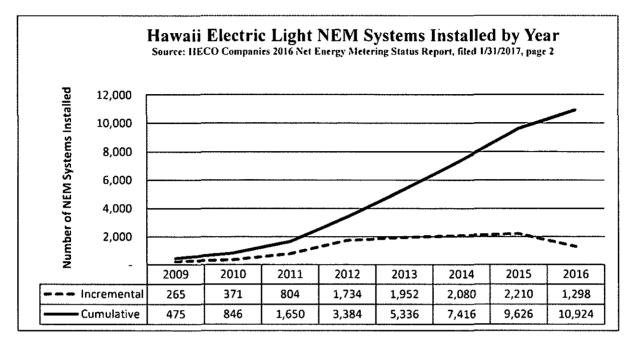
Complete calendar year 2016 data was not available at time of this filing and therefore calendar year 2015 was used in the comparison to TY2010. ³Actual average annual electicity price excluding Schedule F.

⁴ 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 contributed to the lower than forecasted sales in 2016. First, higher penetrations of customer-sited renewable generation systems installed under Net Energy Metering ("NEM"), Standard Interconnection Agreements ("SIA"), Customer Grid-Supply ("CGS"), Customer Self-Supply ("CSS") and Feed-In-Tariffs ("FIT") had a significant impact on sales. The cumulative 2016 impacts of systems installed under NEM, SIA, CGS, CSS and FIT²⁰ were higher than the 2010 test year assumed impacts by 2,042.9% for the residential sector and 394.4% for the commercial sector. As shown in the 2016 Net Energy Metering Status Report filed January 31, 2017, page 2, the cumulative number of NEM installed systems on Hawai^ci

²⁰ 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.

Electric Light's grid jumped from 475 in 2009 to 10,924 in 2016, a 2,200% increase over seven 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 2010 test year rate case forecast. Impacts consistent with those filed in the Company's Integrated Resource Planning ("IRP") proceeding, Docket No. 04-0046, were used to develop the forecast as information on future program impacts were not available at that time. In the years 2010 through 2015²¹, the Public Benefits Fund Administrator's programs achieved greater kWh reduction impacts than what was assumed in the test year.

The decline in sales in 2016 due to higher penetration of customer-sited renewable generation systems and energy efficiency measures was partially offset by the effects of warmer and more humid weather compounded by relatively lower electricity prices driven by lower fuel oil prices which resulted in relatively flat sales as compared to 2015.

²¹ Energy efficiency impacts were not available for calendar year 2016. Table 1 provides energy efficiency impacts through calendar year 2015.

In summary, declining sales in 2016 relative to forecast 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. Overall, the RBA balance decreased to \$3.0 million at the end of 2016.

RAM Revenue Adjustment

Order No. 32735 states that the RAM Revenue Adjustment will be the lesser of (a) the RAM Revenue Adjustment calculated according to the existing tariffs and procedures at the time of the issuance of the order ("Original RAM Methodology") or (b) a RAM Cap. For the 2017 decoupling annual filing, the Company calculated the RAM Revenue Adjustment to be lower using the Original RAM Methodology so therefore the RAM Cap is not applied for the 2017 RAM Revenue Adjustment. See Schedule A1 and the summary table below.

		<u>Uriginal RAM</u>
	RAM_Cap ²²	Methodology ²³
2017 RAM Revenue Adjustment	\$12.6 million	\$11.8 million

The sections below further explain the calculations of both RAM Revenue Adjustment methodologies.

RAM Revenue Adjustment Cap

Order No. 32735 at 95-96, explains that the RAM Cap will be based on the 2014 adjusted

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target revenues multiplied by the cumulative annually compounded increases in the GDPPI for

 ²² 2017 RAM Cap \$12,621,414 is calculated as 2017 RAM Cap (\$12,249,300) + Exceptional And Other Matters (\$372,114). See Schedule A1.
 ²³ 2016 RAM Under Environment Textor (\$12,249,300) + Exceptional And Other Matters (\$372,114).

²³ 2016 RAM Under Existing Tariffs \$11,775,699 calculated as: O&M RAM (\$5,782,944) less Rate Base RAM-Return on Investment (-\$2,481,749) + Depreciation and Amortization Expense (\$8,711,708) less an adjustment for Change in On-cost Clearing Allocation (-\$231,340) and 2016 revised adjustment for change in On-cost Clearing Allocation (\$-5,864). See Schedule A1.

Order No. 32866, paragraph 18 required the Company to adjust its 2015 RAM Revenue Adjustment to reflect the O&M expense reduction impact associated with the change in on-cost clearing allocation identified by the Company in its response to CA-IR-1(b). The RAM calculation for 2015 included an adjustment based on the actual 2014 O&M impact due to the change in on-cost clearing allocation. Therefore, in calculating the 2017 RAM revenue adjustment under the Original RAM Methodology, the adjustment has been updated to reflect the actual 2016 O&M impact of the change in on-cost clearing allocation. See HECO-WP-A1-001.

intervening years, adjusted to include applicable revenue taxes. As shown in Schedule J in Attachment 2, the adjusted 2015 Target Revenues is \$158.2 million. This amount is then added to the adjusted 2016 RAM Cap increase of \$2.4 million²⁴. This results in a 2016 target revenue total of \$160.6 million. The 2016 target revenue total is then multiplied by the 2017 GDPPI of 2.00% to calculate the 2017 RAM Cap increase (excluding Exceptional and Other Matters) of \$3.2 million.

The incremental 2017 RAM Cap increase of \$3.2 million is then added to the adjusted 2016 RAM Cap of \$9.0 million to calculate the 2017 RAM Cap total of \$12.2 million. \$0.4 million in "Exceptional and Other Matters" reflecting the RAM calculations for the Customer Information System ("CIS") deferred project cost is then added to the \$12.2 million to arrive at a Total 2017 RAM Revenue Adjustment Cap of \$12.6 million.

RAM Revenue Adjustment- Original RAM Methodology

The RAM Revenue Adjustment determined under the Original RAM Methodology totaled \$11.8 million. Below is a description of the three components: 1) O&M RAM, 2) Rate Base RAM, and 3) Depreciation and Amortization RAM Expense. Because the total of the three components is lower than the 2017 RAM Cap shown above, the RAM Revenue Adjustment calculated under the existing tariffs and procedures is applied for the 2017 RAM Revenue Adjustment.

O&M RAM Adjustment

The O&M RAM calculations reflect such increases in utility bargaining unit labor and non-labor costs. The 2017 O&M RAM adjustment is \$5.8 million as calculated under the Original RAM Methodology. It includes the adjustments to the Commission-approved 2010 test

²⁴ The \$2.4 million 2016 RAM Cap increase is calculated by multiplying the 2015 target revenues of \$158.2 million by the 2016 GDPPI of 1.5%, as shown in Transmittal 16-02, Attachment 3, Schedule J, filed on May 19, 2016.

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 2011 through 2017, are based on bargaining unit wage increases as provided for in the current Collective Bargaining Agreement²⁵ 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 2017 O&M RAM adjustment amount is higher than in 2016 because it covers seven years of inflation and wage increases compared to the 2016 filing, which covered those increases for only six 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, IRP/Demand Side Management ("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

The 2017 Rate Base RAM Adjustment of -\$2.5 million is the result of the Company's investments in plant for grid modernization and technology platform improvements, including the proactive replacement of aging plant and to address safety concerns, as well as investments to improve on quality customer experience and innovative energy solutions which includes costs to install new customer service or extend existing service.²⁶ The investments in plant were offset by

²⁵ 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, 2014, January 1, 2015, and January 1, 2017, and a 3.25% increase effective January 1, 2016, based on January 1, 2013 wage rates.

²⁶ Exemption From and Modification of General Order No. 7, Paragraph 2.3(g), Relating to Capital Improvements, Capital Projects Completed in 2016 ("2016 G.O. 7 Report") in Docket No. 03-0257, dated March 30, 2017.

a much higher Accumulated Deferred Income Tax balance than what was anticipated in the 2010 test year.

The 2017 Rate Base RAM Adjustment as calculated under the Original RAM Methodology was based on information for the rate base components of plant in service, accumulated depreciation, contributions in aid of construction ("CIAC") and accumulated deferred income taxes ("ADIT") updated for actual December 31, 2016 balances (all other components of the rate base remain at the test year levels) compared to rate base balances from the Company's approved 2010 test year rate base. The Rate Base RAM Adjustment reflects the Company's investment of \$52.7 million²⁷ in plant additions in 2016. The 2017 rate base RAM also incorporates an estimate for 2017 baseline plant additions (based on an historical five-year average) of \$49.5 million.

Depreciation and Amortization RAM

The Depreciation and Amortization RAM adjustment of \$8.7 million, as calculated under the existing tariffs and procedures, reflects the increase to depreciation and amortization expense, net of CIAC, above amounts in current revenue due to the net plant additions in 2010, 2011, 2012, 2013, 2014, 2015, and 2016 and the inclusion of CIS deferred project costs amortization.

Earnings Sharing Calculation Issue

An issue in this year's decoupling filing related to earnings sharing is discussed below along with the Company's proposal to address the issue:

> Since the Earnings Sharing Mechanism was implemented in the decoupling filings in 2012 for Hawaiian Electric and in 2013 for Hawai'i Electric Light and Maui Electric, actual recorded cost of capital has been used for earnings sharing

²⁷ 2016 G.O. 7 Report, op. cit.

calculations. This practice was based on discussions with the parties and has resulted in the benefit of lower cost of capital being passed to customers via the Earnings Sharing Mechanism. However, this year it was noted that in its Final Decision and Order in Docket No. 2008-0274, page 61, filed on August 31, 2010, the Commission stated:

"Capital ratios and costs rates will be retained as authorized in either the most recently issued rate case interim or final decision, and synchronized interest will be updated using methods employed in that last rate case for purposes of the earnings sharing mechanism."

In reviewing the previous years' decoupling filings, in most years, the use of actual recorded cost of capital has resulted in larger cost savings being passed to customers through the Earnings Sharing Mechanism. Please see HELCO-WP-H-008 for more details.

The Company is proposing to revise Sheet No. 89C, subpart a, in its Rate Adjustment Mechanism Provision tariff, as shown in Attachment 1, to formally incorporate the use of the actual cost of capital in the earnings sharing calculation. This clarification would not impact any of the previous years' decoupling filings.

RBA Revenue Adjustment

In total, Hawai'i Electric Light's 2017 RBA Revenue Adjustment is \$15.1 million, consisting of \$3.3 million for the RBA balance for year-end 2016 and \$11.8 million in RAM revenue adjustment for 2017.

Customer Billing Adjustments

The Company also proposes to delete a provision in the Revenue Balancing Account Provision tariff on entries to the RBA to correct billing errors. In Transmittal Nos. 15-03, 15-04 and 15-05, the Consumer Advocate recommended that the "extensive manual analyses of out-ofperiod customer billing adjustments, which [have] historically been undertaken by the Hawaiian Electric Companies, should be discontinued effective in 2015" and stated the following:

Customer billing adjustments will flow naturally through the billed revenue accounts feeding into the calculation of recorded, adjusted revenues on Schedule B2 and the proposed elimination of the manual analysis of each adjustment to determine prior period months affected will significantly simplify RBA accounting efforts for the Hawaiian Electric Companies and corresponding review efforts for the Consumer Advocate and the Commission. The Hawaiian Electric Companies should continue to report each customer billing adjustment within its standard data responses prepared and submitted with each monthly RBA packet, so that individual adjustments can be selected for review by the Consumer Advocate, as necessary.

The Company agrees with the Consumer Advocate's recommendation and proposes a threshold on the Consumer Advocate's reporting recommendation, as explained in HELCO-WP-B-006 and therefore proposes to delete the associated tariff provision on Revised Sheet No. 91B of the Revenue Balancing Account Provision tariff regarding entries to the RBA to correct individual billing errors.

Special Medical Needs Pilot Program

By virtue of the Commission's approval of Transmittal No. 17-01, the Special Medical Needs Pilot Program ("SMNPP") rates in the Schedule R Residential Service tariffs will be authorized based rates effective April 1, 2017.²⁸ Thus, the revenue from the lower SMNPP rates in the Schedule R Residential Service tariffs will be included in the recorded adjusted revenue²⁹ as a credit entry into the RBA. Because the base rates for the SMNPP customers will be lower than before for these customers, the recorded adjusted revenue for the Companies entered into

 ²⁸ On March 28, 2017, the Commission issued Decision and Order No. 34467, approving Transmittal No. 17-01, subject to certain conditions, and the SMNPP rates, effective April 1, 2017.
 ²⁹ The recorded adjusted revenue is defined to include the electric sales revenue from authorized base rates, plus

²⁹ The recorded adjusted revenue is defined to include the electric sales revenue from authorized base rates, plus revenue from any authorized interim rate increase, plus revenue from any RBA rate adjustment, but excluding revenue for fuel and purchased power expenses, IRP/DSM, any Commission Ordered one-time rate refunds or credits or other surcharges, and adjusted to remove amounts for applicable revenue taxes.

the RBA will be lower. As a result, the difference between target revenue and recorded adjusted revenue will be larger and will be reflected as a larger RBA balance, which in turn will be recovered through the RBA Rate Adjustment. The flow through of the larger difference between target revenue and recorded adjusted revenue resulting from the SMNPP rates in the Schedule R Residential Service tariffs would occur in accordance with the approved Schedule R (effective April 1, 2017) and the currently approved RBA Provision tariffs. Therefore, no changes to the Companies' tariffs would be required.

On January 18, 2017, the Hawaiian Electric Companies filed Transmittal No. 17-01, proposing a provision for the Special Medical Needs Pilot Program in each company's Schedule R tariff. The proposed tariff included discounted per kilowatt-hour rates on a pilot basis for up to 2,000 customers with special medical needs. Transmittal No. 17-01 stated the following: "The Companies also request that the bill adjustments provided to customers under the SMNPP be included as a reduction to recorded adjusted revenues for the determination of the monthly entry to the revenue balancing account per the Revenue Balancing Account Provision."³⁰

Regarding the revenue balancing account, Decision and Order No. 34467 stated the following:

Lastly, the Companies request that the commission "[a] llow the bill adjustments provided to customers under the [Special Medical Needs Pilot Program] Provision to be included as a reduction to recorded adjusted revenues for the determination of the monthly entry to the revenue balancing account per the Revenue Balancing Account Provision."

The Companies' transmittal, filed pursuant to HAR § 6-61-111, is limited to the proposed tariff revisions to their existing Schedule R. Thus, the Companies' Revenue Balancing Account-related request is outside the scope (i.e., "beyond the scope") of this non-docketed, transmittal matter. Accordingly, the commission takes no action on: (1) the Companies' Revenue Balancing Account-related request; or (2) the Consumer Advocate's related recommendations thereto.

³⁰ Transmittal No. 17-01 at 10.

[Footnotes omitted.] Decision and Order No. 34467 at 25-26.

The Companies appreciate the Commission's timely order approving the SMNPP rates proposed in Transmittal No. 17-01. Regarding the flow through of revenue reductions resulting from the approval of the Special Medical Needs Pilot Program rates in the Schedule R Residential Service tariffs into the Revenue Balancing Account, no change to the Companies' current Revenue Balancing Account ("RBA") Provision tariffs would be required. The RBA Provision tariffs state the following:

The purpose of the Revenue Balancing Account ("RBA") is to record 1) the difference between the Hawaiian Electric Company's target revenue and recorded adjusted revenue, and 2) monthly interest applied to the simple average of the beginning and ending month balances in the RBA. In addition, the recovery provision of this tariff provides for collection or return of the calendar year-end balance in the RBA and recovery or refund of the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits provided in the Rate Adjustment Mechanism ("RAM") Provision over the subsequent June 1st through May 31st period.

Hawaiian Electric RBA Provision tariff, Revised Sheet No. 92, effective June 1, 2013; Maui

Electric RBA Provision tariff, Revised Sheets 97 (Maui), 108 (Lana'i), and 152 (Moloka'i),

effective June 1, 2013; Hawai'i Electric Light RBA Provision tariff, Revised Sheet No. 91,

effective June 1, 2013.

The RBA Provision tariffs define target revenue as "the annual electric revenue approved by the Public Utilities Commission in the last issued Decision & Order in the Company's most recent test year general rate case,..." with certain exclusions and additions as specified in the tariff.³¹

³¹ Hawaiian Electric RBA Provision Tariff, Revised Sheet No. 92A, effective January 1, 2014; Maui Electric RBA Provision tariff, Revised Sheets No. 97A (Maui), 108A (Lana'i), and 152A (Moloka'i), effective June 1, 2013; Hawai'i Electric Light RBA Provision tariff, Revised Sheet No. 91A, effective June 1, 2013.

Regarding entries to the RBA and "recorded adjusted revenue," the RBA Provision tariffs state the following:

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

[Emphasis added.] Hawaiian Electric RBA Provision tariff, Revised Sheet No. 92B, effective

March 1, 2014; Maui Electric RBA Provision tariff, Revised Sheets No. 97B (Maui), 108B

(Lana'i), and 152B (Moloka'i), effective March 1, 2014; Hawai'i Electric Light RBA Provision

tariff, Revised Sheet No. 91B, effective March 1, 2014.

Accordingly, since the revenue from the lower SMNPP rates in the Schedule R

Residential Service tariffs will be included in the recorded adjusted revenue as a credit entry into

the RBA, no changes to the Companies' tariff are being made.

VIII

List of Attachments and Schedules

In Attachment 1 of this tariff transmittal, Hawai'i Electric Light submits its proposed revisions to its Revenue Balancing Account Provision tariff, including the proposed RBA Rate Adjustment rate in Section E of Revised Sheet No. 91C, and its proposed revisions to the Rate Adjustment Mechanism Provision tariff, including the revision to Sheet No. 89C discussed on pages 15-16. Attachment 1A provides the tariff sheets for the RBA and RAM Provision tariffs in blackline version. Attachment 2 provides the calculation of the RBA Rate Adjustment in the following schedules, along with supporting workpapers:

Schedule A – Determination of 2017 RBA Rate Adjustment (Summary)

Schedule A1 - Determination of Total RAM Revenue Adjustment Allowed

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 O&M RAM Adjustment

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

Schedule C2 – Non-Labor Exclusion Adjustment for 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 Summary

Schedule G1 - Baseline Capital Project CIAC Additions

Schedule G2 – Major Capital Project CIAC Additions

Schedule G3 – CIAC Amortization

Schedule H – Earnings Sharing Calculations³²

Schedule I - PUC-Ordered Adjustments

Schedule J – Determination of RAM Cap

Schedule K – Exceptional & Other Matters

Schedule KI – Exceptional & Other Matters- CIS

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, Hawai'i Electric Light, consistent with the advance notice required by law, hereby respectfully requests that its proposed revisions to the Revenue Balancing Account Provision and Rate Adjustment Mechanism Provision tariffs be allowed to become effective on June 1, 2017.

DATED: Honolulu, Hawai'i, March 31, 2017.

HAWAI'I ELECTRIC LIGHT COMPANY, INC.

³² The Company has provided its calculated ratemaking return on equity for year 2016 in Schedule H of this tariff transmittal as required by the Commission in its *Final Decision and Order* in the decoupling proceeding (Docket No. 2008-0274) on August 31, 2010.

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ATTACHMENT 1

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Superseding Sheet No. 50C Effective March 1, 2017 REVISED SHEET NO. 50C Effective June 1, 2017

RATE SCHEDULES (Continued)

<u>Sheet</u>	<u>Schedule</u>	Effective Date	<u>Character of Service</u>
81	"Q"	March 1, 2017	Purchases From Qualifying Facilities-100 KW or Less
81A [.]	"Q"	March 1, 2017	Purchases From Qualifying Facilities-100 KW or Less
82 Gre	en Pricing	July 1, 2015	Green Pricing Provision
82A Gre	en Pricing	January 1, 1999	Green Pricing Provision
		(PAGES 83-84 NOT ASS	IGNED)
85-85E	"FIT"	December 30, 2011	Schedule FIT Tier 1 and Tier 2
86-86AQ	"FIT"	December 30, 2011	Schedule FIT Appendix I Tier 1 and Tier 2 Agreements
87-87F	"FIT"	December 30, 2011	Schedule FIT Appendix II Queuing and Interconnection Procedures
88-88E	"FIT"	December 30, 2011	Schedule FIT Tier 3
88.1- 88.1DX	"FIT"	December 30, 2011	Schedule FIT Tier 3 Agreement
88.2- 88.2E	"FIT"	December 30, 2011	Schedule FIT Tier 3 Queuing and Inter- connection Procedures
89	"RAM"	June 1, 2013	Rate Adjustment Mechanism Provision
89A	"RAM"	June 1, 2013	Rate Adjustment Mechanism Provision
89B	"RAM"	June 8, 2015	Rate Adjustment Mechanism Provision
89C	"RAM"	June 1, 2017	Rate Adjustment Mechanism Provision
89D	"RAM"	June 8, 2015	Rate Adjustment Mechanism Provision
89E	"RAM"	June 8, 2015	Provision Rate Adjustment Mechanism Provision

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated March 31, 2017.

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Superseding Sheet No. 50D Effective March 1, 2017

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REVISED SHEET No. 50D Effective June 1, 2017

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RATE SCHEDULES (Continued)

<u>Sheet</u>	<u>Schedule</u>	Effective Date	<u>Character of Service</u>
89F	"RAM"	June 8, 2015	Rate Adjustment Mechanism Provision
89G	"RAM"	June 8, 2015	Rate Adjustment Mechanism Provision
89H	'RAM'	June 8, 2015	Rate Adjustment Mechanism Provision
90	"PPAC"	March 1, 2017	Purchased Power Adjustment Clause
90A	"PPAC"	March 1, 2017	Purchased Power Adjustment Clause
90B	"PPAC"	April 9, 2012	Purchased Power Adjustment Clause
91	"RBA"	June 1, 2017	Revenue Balancing Account Provision
91A	"RBA"	June 1, 2013	Revenue Balancing Account Provision
91B	"RBA"	June 1, 2017	Revenue Balancing Account Provision
91C	"RBA"	June 1, 2017	Revenue Balancing Account Provision
91D	"RBA"	June 1, 2013	Revenue Balancing Account Provision
92	"TOU-RI"	November 21, 2016	Residential Interim Time-of- Use Service
92A	"TOU-RI"	November 21, 2016	Residential Interim Time-of- Use Service
92B	"TOU-RI"	November 21, 2016	Residential Interim Time-of- Use Service
92C	"TOU-RI"	November 21, 2016	Residential Interim Time-of- Use Service

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated March 31, 2017.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

Supplement To:

- Residential Service Schedule R Schedule G - General Service - Non-Demand - General Service - Demand Schedule J Schedule P Large Power Service Schedule F - Street Light Service Schedule U - Time-of-Use Service Schedule TOU-R - Residential Time-of-Use Service Schedule TOU-G - Small Commercial Time-of-Use Service Schedule TOU-J - Commercial Time-of-Use Service Schedule TOU-P - Large Power Time-of-Use Service Schedule SS - Standby Service Schedule TOU EV- Residential Time-of-Use Service with Electric Vehicle Pilot Schedule EV-F - Commercial Public Electric Vehicle Charging Facility Service Pilot Schedule TOU-RI- Residential Interim Time-of-Use Service

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

A: PURPOSE:

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The purpose of the Revenue Balancing Account ("RBA") is to record: 1) the difference between the Hawaii Electric Light Company's target revenue and recorded adjusted revenue, and 2) monthly interest applied to the simple average of the beginning and ending month balances in the RBA. In addition, the recovery provision of this tariff provides for collection or return of the calendar year-end balance in the RBA and recovery or refund of the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits provided in the Rate Adjustment Mechanism ("RAM") Provision over the subsequent June 1st through May 31st period. Tracking of target revenue and recorded adjusted revenue commenced on the effective date of the tariff that implemented the Final Decision and Order in Hawaii Electric Light Company's 2010 test year rate case, Docket No. 2009-0164, consistent with the Final Decision and Order in the Decoupling case, Docket No. 2008-0274.

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated March 31, 2017.

Superseding Sheet No. 91A Effective April 9, 2012 REVISED SHEET NO. 91A Effective June 1, 2013

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

B: TARGET REVENUE:

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

Plus: Any effective RAM Revenue Adjustment calculated under the RAM provision for years subsequent to the most recent rate case test year for which the Commission has issued a Decision & Order; and

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

The target revenue shall be revised to correct for any errors in the calculation of the RAM Revenue Adjustment for any previous period and for revisions to RAM Revenue Adjustments as a result of subsequent Commission orders that change the basis of previously calculated RAM Revenue Adjustments. For any corrections of errors in previously calculated RAM Revenue Adjustments, the target revenue shall be adjusted as of the date that the corrected information would have been reflected in target revenue. For changes in the RAM Revenue Adjustment as a result of subsequently issued Commission orders, the target revenue shall be adjusted as of the date that to the effective date of tariff rates that are implemented pursuant to the subsequently issued Commission order.

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

Monthly Allocation Factors for the Target Revenue are as follows:

January	8.30%
February	7.57%
March	8.36%

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated May 1, 2013.

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

April	8.00%
May	8.37%
June	8.17%
July	8.64%
August	8.84%
September	8.39%
October	8.60%
November	8.26%
December	8.50%
Total	100.00%

These factors are based on the MWH sales forecast that is approved by the Commission in Hawaii Electric Light Company's 2010 test year rate case and shall be updated in any subsequent test year rate case.

C: BALANCING ACCOUNT ENTRIES:

Entries to the RBA will be recorded monthly. A debit entry to the RBA will be made equal to the target revenue as defined in Section B. above, times the appropriate monthly allocation factor in the table above. A credit entry to the RBA will be made equal to the recorded adjusted revenue. The recorded adjusted revenue is defined to include the electric sales revenue from authorized base rates, plus revenue

from any authorized interim rate increase, plus revenue from any RBA rate adjustment, but excluding revenue for fuel and purchased power expenses, IRP/DSM, any Commission Ordered one-time rate refunds or credits or other surcharges, and adjusted to remove amounts for applicable revenue taxes.

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

D: RECOVERY OF BALANCING ACCOUNT AMOUNTS:

At the Annual Evaluation Date provided in the Rate Adjustment Mechanism Provision, the Company will file with the Commission a statement of the previous calendar year-end balance in the RBA and the RAM Revenue Adjustment for the current calendar year, along with supporting calculations.

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated March 31, 2017.

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Superseding REVISED SHEET No. 91C Effective June 1, 2016

REVISED SHEET No. 91C Effective June 1, 2017

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

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

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.

RBA Rate Adjustment All Rate Schedules 1.4533 ¢/kWh

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated March 31, 2017.

Superseding REVISED SHEET NO. 91D Effective June 1, 2013 REVISED SHEET NO. 91D Effective June 1, 2017

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

F. NOTICE

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

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

G: COMMISSION'S AUTHORITY

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

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated March 31, 2017.

Superseding Sheet No. 89 Effective April 9, 2012

RATE ADJUSTMENT MECHANISM PROVISION

Rate Adjustment Mechanism ("RAM") Provision

<u>Purpose</u>

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

Definitions

a) The Annual Evaluation Date shall be the Date the Company will make its annual filing under this mechanism. The Annual Evaluation Date shall be no later than March 31st of each year, commencing March 31, 2012.

b) The Evaluation Period is defined as the historical twelve month period ending December 31, of each calendar year preceding the Annual Evaluation Date. The Evaluation Period is used solely to determine achieved earnings and any sharing of such earnings above the Authorized Return on Equity.

c) The RAM Period is defined as the calendar year containing the Annual Evaluation Date.

d) The Labor Cost Escalation Rate shall be the applicable annual percentage general wage rate increase provided for in currently effective union labor agreements for use in escalating wage and salary Base Expenses for union employees to determine the RAM Revenue Adjustment for each RAM Period. In the event no union labor agreement exists for a RAM Period, the most recently effective annual general percentage increase rate shall apply.

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated May 1, 2013.

Superseding Sheet No. 89A Effective October 11, 2012 REVISED SHEET NO. 89A Effective June 1, 2013

RATE ADJUSTMENT MECHANISM PROVISION

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

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

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

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

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

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

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

1) The Exogenous Tax Changes shall be the changes in tax laws or regulations that are estimated to impact RBA Target Revenues by five hundred thousand dollars (\$500,000) or more.

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated May 1, 2013.

Superseding Sheet No. 89B Effective March 30, 2014 REVISED SHEET NO. 89B Effective June 8, 2015

RATE ADJUSTMENT MECHANISM PROVISION

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

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

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

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

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

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

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

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated June 3, 2015.

Superseding REVISED SHEET NO. 89C REVISED SHEET NO. 89C Effective June 8, 2015

Effective June 1, 2017

RATE ADJUSTMENT MECHANISM PROVISION (continued)

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

Rate Adjustment Mechanism

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

Evaluation Period Earnings Sharing:

- 1. For the twelve month period ending December 31, of each year (the "Evaluation Period"), with the filing to be made no later than March 31, of the year following the conclusion of the Evaluation Period. The schedules will include the following:
 - a) Company's recorded actual average net plant in service, accumulated deferred income taxes, inventory, working capital, and other rate base components. The schedules shall also show the utility's actual depreciation expense, operating and maintenance expense, income taxes, taxes other than income taxes, and other components of income for return, revenues, and actual capital structure, cost of debt, overall cost of capital, and return on common equity in the format set forth in the final order establishing the Company's latest effective rates.
 - b) All applicable accounting and pro forma adjustments historically required in annual reports filed with the Commission.
 - c) Pro-forma adjustments to remove from recorded revenues any out-of-period Earnings Sharing Revenue Credits or Major HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated March 31, 2017.

Superseding Sheet No. 89D Effective March 30, 2014

RATE ADJUSTMENT MECHANISM PROVISION (continued)

Capital Projects Credits recorded during the Evaluation Period, and

d) A calculation comparing the achieved return on average common equity to the following earnings sharing grid, and indicating the Earnings Sharing Revenue Credit that should be recorded within the Revenue Balancing Account to effect the prescribed sharing of earnings above authorized levels:

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

RAM Period RAM Revenue Adjustment Calculation:

- 2) The Company shall provide additional schedules indicating the following proposed RAM Revenue Adjustment Calculation applicable for the RAM Period using the methodology set forth below:
 - a) The O&M RAM Adjustment shall adjust Base Expenses segregated between labor and non-labor components and treated as follows:
 - i. The labor component shall be quantified for the RAM Period by application of the Labor Cost Escalation Rate, reduced to account for the Productivity Offset to labor expenses, including payroll taxes. The part of Base Expenses that represents labor costs for merit employees shall not be subject to application of the Labor Cost Escalation rate, nor be reduced by the Productivity Offset.
 - ii. The Non-labor components quantified for the RAM Period by application of the Non-labor Escalation Rate to non-labor Base Expenses. Non-labor components shall exclude fuel, purchased power, pension/OPEBs, IRP/DSM or other rate adjustment provisions.
 - b) Depreciation and Amortization RAM Adjustment shall be quantified for the RAM Period by application of Commissionapproved accrual rates and methods to the actual recorded

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated June 3, 2015.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

Plant in Service balances at the end of the Evaluation Period.

- c) The Rate Base RAM Return on Investment Adjustment shall be determined by multiplying the applicable Pretax Rate of Return times the change in Rate Base. The Pretax Rate of Return shall include related income taxes on the equity components of the Return on Investment rate approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case. The quantification of Rate Base is specified in greater detail in part (f) of this Section 2.
- d) The revenue impact of any Exogenous Tax Changes shall be included in the RAM Period calculation of the RAM Revenue Adjustment.
- e) Revenue taxes shall be adjusted to account for the change in parts (a) through (e) of this Section 2.
- f) Rate Base for the RAM Period shall be quantified as follows:
 - i. Plant in Service, Accumulated Depreciation, Accumulated Deferred Income Taxes and Contributions in Aid of Construction ("CIAC") shall be a <u>two-point</u> <u>average</u> of actual recorded balance sheet data at December 31 of the Evaluation Period, plus projected values at December 31 of the RAM Period determined as prescribed in parts (ii) through (v), below.
 - ii. Plant in Service shall be quantified by adding to the recorded balances at December 31 of the Evaluation Period, the simple average of Baseline Capital Projects plant additions recorded in the immediately preceding five calendar years, plus the estimated cost of completed Major Capital Projects that are anticipated to be in service by September 30 of the RAM Period. The cost of Major Capital Projects shall be limited to the dollar amounts previously approved by the Commission, and shall be included at the level of recorded costs if recorded costs are lower than the budget amounts approved by the Commission, and the Commission has not yet reviewed the project costs in a rate case.
 - iii. Accumulated Depreciation at December 31 of the RAM Period shall be quantified by increasing the recorded balances at December 31 of the Evaluation Period by the amount set forth in Section 2 part (b) above, consistent with rate-making treatment.

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated June 3, 2015.

REVISED SHEET NO. 89F Effective June 8, 2015

RATE ADJUSTMENT MECHANISM PROVISION (continued)

- iv. CIAC shall be quantified by adding to the recorded balance at December 31 of the Evaluation Period an estimate of the net change for the RAM Period. The net change shall be based on a simple average of cash and in-kind CIAC for the immediately preceding five calendar years for programs (i.e., numerous low cost capital projects) plus specific engineering estimates of any contributions for the Major Capital Projects anticipated to be in service by September 30 of the RAM Period.
 - v. Accumulated Deferred Income Taxes shall be quantified by adding to the recorded balances at December 31 of the Evaluation Period the estimated tax effect of the depreciation timing difference (i.e., difference between book depreciation and tax depreciation) on the Baseline Capital Projects and Major Capital Projects added to rate base during the RAM Period.
- vi. Working Cash and all other elements of rate base not specifically addressed above shall be fixed at the dollar amount approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case. These elements of rate base shall be held constant until revised by a future Commission Decision & Order in a general rate case.
- g.) See also Settlement Agreement section below.

RAM REVENUE ADJUSTMENT CAP

The RAM Basis for the calculation of the RAM Revenue Adjustment Cap shall be the target revenues determined in accordance with the RBA tariff based on the results of the Company's most recent final rate case decision. The RAM Basis shall be adjusted 1) as described below in the determination of the 2014 Rate Base RAM - Return on Investment Adjustment and the 2014 Depreciation and Amortization RAM Adjustment, and 2) to exclude or otherwise appropriately account for adjustments for the recovery of revenues for previously explicitly stipulated and approved exceptional matters or other matters specifically ordered by the Commission, which shall, in any event, be recovered fully without respect to any limitations resulting from application of the RAM Revenue Adjustment Cap.

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

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

HAWAII ELECTRIC LIGHT COMPANY, INC.

Superseding Sheet No. 89GREVISED SHEET NO. 89GEffective March 30, 2014Effective June 8, 2015

RATE ADJUSTMENT MECHANISM PROVISION (continued) Exception to the calculation of the RAM Revenue Adjustment Cap:

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

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

Evaluation Procedures

Complete, indexed workpapers and electronic files supporting the RAM Adjustment, Earnings Sharing Revenue Credits, and Major and Baseline Capital Projects Credits Schedules shall be provided to the Commission, the Consumer Advocate and all other parties to the Utility's most recent rate case proceeding ("Other Rate Case Parties"), if any, coincident with the Annual Evaluation Date filing. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, Other Rate Case Parties, and other interested persons. The Consumer Advocate, Other Rate Case Parties, and other interested persons may propose any adjustments determined to be required to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

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

HAWAII ELECTRIC LIGHT COMPANY; INC.

Superseding Sheet No. 89H Effective March 30, 2014

REVISED SHEET NO. 89H Effective June 8, 2015

RATE ADJUSTMENT MECHANISM PROVISION (continued) As described in Sections 6-61-61 and 6-61-111 of the Hawaii Administrative Rules, Title 6, Chapter 61, based upon the Company's filed schedules and in the absence of any protests submitted by the Consumer Advocate, Other Rate Case Parties, or other interested persons, not later than 15 days before the June 1 effective date of the RBA Rate Adjustment described in the RBA Provision tariff, the RBA Rate Adjustment incorporating the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, and Major and Baseline Capital Projects Credits shall go into effect on the June 1 effective date, and the Commission shall confirm the commencement of the RBA Rate Adjustment in its monthly Tariff Order.

Notice

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

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

SETTLEMENT AGREEMENT

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

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

HAWAII ELECTRIC LIGHT COMPANY, INC

SHEET NO. 891 Effective June 8, 2015

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RATE ADJUSTMENT MECHANISM PROVISION (continued)

COMMISSION'S AUTHORITY

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

HAWAII ELECTRIC LIGHT COMPANY, INC

Transmittal Letter Dated June 3, 2015.

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ATTACHMENT 1A

Superseding Sheet No. 50CREVISED SHEET NO. 50CEffective March 1, 2017______Effective March 1,2017June 1, 2017______Effective March 1,

RATE SCHEDULES (Continued)

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Sheet Schedule	Effective Date	<u>Character of Service</u>				
81 "Q"	March 1, 2017	Purchases From Qualifying Facilities-100 KW or Less				
81A "Q"	March 1, 2017	Purchases From Qualifying Facilities-100 KW or Less				
82 Green Pricing	July 1, 2015	Green Pricing Provision				
82A Green Pricing	January 1, 1999	Green Pricing Provision				
	(PAGES 83-84 NOT ASS	IGNED)				
85-85E "FIT"	December 30, 2011	Schedule FIT Tier l and Tier 2				
86-86AQ "FIT"	December 30, 2011	Schedule FIT Appendix I Tier 1 and Tier 2 Agreements				
87-87F "FIT"	December 30, 2011	Schedule FIT Appendix II Queuing and Interconnection Procedures				
88-88E "FIT"	December 30, 2011	Schedule FIT Tier 3				
88.1- "FIT" 88.1DX	December 30, 2011	Schedule FIT Tier 3 Agreement				
88.2- "FIT" 88.2E	December 30, 2011	Schedule FIT Tier 3 Queuing and Inter- connection Procedures				
89 "RAM"	June 1, 2013	Rate Adjustment Mechanism Provision				
89A "RAM"	June 1, 2013	Rate Adjustment Mechanism				
89B "RAM"	June 8, 2015	Provision Rate Adjustment Mechanism Provision				
89C "RAM" Mechanism	June 8, 2015 <u>June 1</u> ,	2017 Rate Adjustment				
89D "RAM"	June 8, 2015	Provision Rate Adjustment Mechanism				
89E "RAM"	June 8, 2015	Provision Rate Adjustment Mechanism Provision				

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated February 24, 2017March 31, 2017.

Superseding Sheet No. 50D REVISED SHEET No. 50D Effective March 1, 2017February 1, 2017 _____Effective March 1, 2017 2017June 1, 2017

RATE SCHEDULES (Continued)

92A "TOU-RI" November 21, 2016 Residential Interim Time-of Use Service		<u>Sheet</u>	<u>Schedule</u>	Effective Date	<u>Character of Service</u>
89G"RAM"June 8, 2015Rate Adjustment Mechanism Provision89H'RAM'June 8, 2015Rate Adjustment Mechanism Provision90"PPAC"March 1, 2017Purchased Power Adjustment Clause90A"PPAC"March 1, 2017Purchased Power Adjustment 		89F	"RAM"	June 8, 2015	-
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		92C	"TOU-RI"	November 21, 2016	Residential Interim Time-of-

HAWAII ELECTRIC LIGHT COMPANY, INC.

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Transmittal Letter Dated February 17, 2017March 31, 2017.

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Superseding <u>REVISED SHEETSheet</u> NO. 91 Effective <u>June 1, 2013April 9, 2012</u> 20132017 REVISED SHEET NO. 91 Effective June 1,

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

Supplement To:

Schedule R - Residential Service
Schedule G - General Service - Non-Demand
Schedule J - General Service - Demand
Schedule P - Large Power Service
Schedule F - Street Light Service
Schedule U - Time-of-Use Service
Schedule TOU-R - Residential Time-of-Use Service
Schedule TOU-G - Small Commercial Time-of-Use Service
Schedule TOU-J - Commercial Time-of-Use Service
Schedule TOU-P - Large Power Time-of-Use Service
Schedule SS – Standby Service
Schedule TOU EV- Residential Time-of-Use Service with
Electric Vehicle Pilot
Schedule SV R Residential Electric Vehicle Sharging
Service Pilot
Schedule EV C Commercial Electric Vehicle Charging
Service PilotSchedule EV-F - Commercial
Public Electric Vehicle
Charging Facility Service Pilot
Schedule TOU-RI- Residential Interim Time-of-Use Service

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

A: PURPOSE:

The purpose of the Revenue Balancing Account ("RBA") is to record: 1) the difference between the Hawaii Electric Light Company's target revenue and recorded adjusted revenue, and 2) monthly interest applied to the simple average of the beginning and ending month balances in the RBA. In addition, the recovery provision of this tariff provides for collection or return of the calendar year-end balance in the RBA and recovery or refund of the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, Major Capital Projects Credits, and Baseline Capital Projects Credits provided in the Rate Adjustment Mechanism ("RAM") Provision over the subsequent June 1st through May 31st period. Tracking of target revenue and recorded adjusted revenue commenced on the effective date of the tariff that implemented the Final Decision and Order in Hawaii Electric Light

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated May 1, 2013March 31, 2017.

SHEET No. 91A Effective

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

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Company's 2010 test year rate case, Docket No. 2009-0164, consistent with the Final Decision and Order in the Decoupling case, Docket No. 2008-0274.

HAWAII ELECTRIC LIGHT COMPANY, INC.

Docket No. 2009-0164; Order No. 30301, filed April 4, 2012. Transmittal Letter Dated April 5, 2012. Superseding Sheet No. 91A Effective April 9, 2012 REVISED SHEET NO. 91A Effective June 1, 2013

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

B: TARGET REVENUE:

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

Plus: Any effective RAM Revenue Adjustment calculated under the RAM provision for years subsequent to the most recent rate case test year for which the Commission has issued a Decision & Order; and

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

The target revenue shall be revised to correct for any errors in the calculation of the RAM Revenue Adjustment for any previous period and for revisions to RAM Revenue Adjustments as a result of subsequent Commission orders that change the basis of previously calculated RAM Revenue Adjustments. For any corrections of errors in previously calculated RAM Revenue Adjustments, the target revenue shall be adjusted as of the date that the corrected information would have been reflected in target revenue. For changes in the RAM Revenue Adjustment as a result of subsequently issued Commission orders, the target revenue shall be adjusted as of the date date that the corrected information would have been reflected in target revenue. For changes in the RAM Revenue Adjustment as a result of subsequently issued Commission orders, the target revenue shall be adjusted as of the effective date of tariff rates that are implemented pursuant to the subsequently issued Commission order.

The Commission and the Consumer Advocate will be notified of the target revenue revisions or corrections prior to implementation by the Company. There is no presumption that the target revenue changes are ultimately warranted or correct. In the subsequent annual March 31 decoupling filing, the utility will have the burden' to demonstrate that the interim changes are warranted and correctly applied. The Consumer Advocate will provide comments regarding the changes with its Statement of Position. The RBA balance and RBA Rate Adjustment for the following year will reflect any appropriate modifications to the change made by the utility in the prior year if necessary.

Monthly Allocation Factors for the Target Revenue are as follows:

January	8.30%
February	7.57%
March	8.36%

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated May 1, 2013.

Superseding Sheet REVISED SHEET No. 91B Effective March 1, 2014January 1, 2014 1, 2017 REVISED SHEET NO. 91B Effective March 1, 2014June

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

April	8.00%
May	8.37%
June	8.17%
July	8.64%
August	8.84%
September	8.39%
October	8.60%
November	8.26%
December	<u>8.50%</u>
Total	100.00%

These factors are based on the MWH sales forecast that is approved by the Commission in Hawaii Electric Light Company's 2010 test year rate | case and shall be updated in any subsequent test year rate case.

C: BALANCING ACCOUNT ENTRIES:

Entries to the RBA will be recorded monthly. A debit entry to the RBA will be made equal to the target revenue as defined in Section B. above, times the appropriate monthly allocation factor in the table above. A credit entry to the RBA will be made equal to the recorded adjusted revenue. The recorded adjusted revenue is defined to include the electric sales revenue from authorized base rates, plus revenue

from any authorized interim rate increase, plus revenue from any RBA rate adjustment, but excluding revenue for fuel and purchased power expenses, IRP/DSM, any Commission Ordered one-time rate refunds or credits or other surcharges, and adjusted to remove amounts for applicable revenue taxes.

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

Entries to the REA to correct individual billing errors of \$5,000 or greater will be made as soon as possible. Such corrections to the RBA balance shall not require adjustments to prior calculated interest if the corrections are less than \$50,000 (in absolute value, plus or minus). In determining whether the corrections to the RBA balance are less than \$50,000 (in absolute value, plus or minus), all billing errors of \$5,000 or more that result from the same event shall be aggregated.

D: RECOVERY OF BALANCING ACCOUNT AMOUNTS:

At the Annual Evaluation Date provided in the Rate Adjustment Mechanism Provision, the Company will file with the Commission a

HAWAII ELECTRIC LIGHT COMPANY, INC. Decision and Order No. 31903; Filed February 7, 2014. Transmittal Letter Dated February 28, 2014March 31, 2017. -- -- -- Formatted: Line spacing: Exactly 12 pt

Superseding Sheet <u>REVISED</u> SHEET No. 91C Effective <u>June 1, 2016June 8, 2015</u> 20162017 REVISED SHEET No. 91C Effective June 1,

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (Cont) statement of the previous calendar year-end balance in the RBA and the RAM Revenue Adjustment for the current calendar year, along with supporting calculations.

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

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

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

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated May 19, 2016March 31, 2017.

Superseding Sheet <u>REVISED SHEET</u> No. 91C Effective <u>June 1, 2016June 8, 2015</u> 20162017

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REVISED SHEET No. 91C Effective June 1,

REVENUE BALANCING ACCOUNT ("RBA") PROVISION (Cont) taxes, and calculated based on the Company's forecast of mWh sales over the RBA Rate Adjustment recovery period.

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

RBA Rate Adjustment All Rate Schedules 1.42411.4533 ¢/kWh

HAWAII ELECTRIC LIGHT COMPANY, INC.

| Transmittal Letter Dated May 19, 2016March 31, 2017.

Superseding <u>REVISED SHEET NOSheet No.</u> 91D REVISED SHEET NO. 91D Effective <u>June 1, 2013April 9, 2012</u> Effective <u>June 1, 2013June</u> 1, 2017

REVENUE BALANCING ACCOUNT ("RBA") PROVISION

F. NOTICE

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

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

C. SETTLEMENT AGREEMENT

This section recognizes that provisions of the Stipulated-Settlement Agreement Setween the Hawaiian Electric Companies and the Division of Consumer Advocacy regarding Certain Regulatory Matters, filed in Docket No. 2008 0093, which the Commission approved in Order No. 31126, issued on March 19, 2013 apply to the RBA Provision where appropriats.

HG: COMMISSION'S AUTHORITY

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

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated May 1, 2013March 31, 2017.

Superseding Sheet No. 89 Effective April 9, 2012

RATE ADJUSTMENT MECHANISM PROVISION

Rate Adjustment Mechanism ("RAM") Provision

<u>Purpose</u>

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

Definitions

a) The Annual Evaluation Date shall be the Date the Company will make its annual filing under this mechanism. The Annual Evaluation Date shall be no later than March 31st of each year, commencing March 31, 2012.

b) The Evaluation Period is defined as the historical twelve month period ending December 31, of each calendar year preceding the Annual Evaluation Date. The Evaluation Period is used solely to determine achieved earnings and any sharing of such earnings above the Authorized Return on Equity.

c) The RAM Period is defined as the calendar year containing the Annual Evaluation Date.

d) The Labor Cost Escalation Rate shall be the applicable annual percentage general wage rate increase provided for in currently effective union labor agreements for use in escalating wage and salary Base Expenses for union employees to determine the RAM Revenue Adjustment for each RAM Period. In the event no union labor agreement exists for a RAM Period, the most recently effective annual general percentage increase rate shall apply.

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated May 1, 2013.

Superseding Sheet No. 89AREVISED SHEET NO. 89AEffective October 11, 2012Effective June 1, 2013

Effective June 1, 2013

RATE ADJUSTMENT MECHANISM PROVISION

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

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

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

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

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

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

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

The Exogenous Tax Changes shall be the changes in tax laws or 1) regulations that are estimated to impact RBA Target Revenues by five hundred thousand dollars (\$500,000) or more.

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated May 1, 2013.

Superseding Sheet No. 89B Effective March 30, 2014 REVISED SHEET NO. 89B Effective June 8, 2015

RATE ADJUSTMENT MECHANISM PROVISION

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

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

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

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

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

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

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

HAWAII ELECTRIC LIGHT COMPANY, INC.

Superseding Sheet NoREVISED SHEET NO. 89C REVISED SHEET NO. 89C Effective October 11, 2012June 8, 2015 Effective June 8,

2015June 1, 2017

RATE ADJUSTMENT MECHANISM PROVISION (continued)

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

Rate Adjustment Mechanism

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

Evaluation Period Earnings Sharing:

- 1. For the twelve month period ending December 31, of each year (the "Evaluation Period"), with the filing to be made no later than March 31, of the year following the conclusion of the Evaluation Period. The schedules will include the following:
 - a) Company's recorded actual average net plant in service, accumulated deferred income taxes, inventory, working capital, and other rate base components. The schedules shall also show the utility's actual depreciation expense, operating and maintenance expense, income taxes, taxes other than income taxes, and other components of income for return, revenues, and actual capital structure, cost of debt, overall cost of capital, and return on common equity in the format set forth in the final order establishing the Company's latest effective rates.
 - b) All applicable accounting and pro forma adjustments historically required in annual reports filed with the Commission.

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated June 3, 2015March 31, 2017.

Superseding Sheet NoREVISED SHEET NO.89CREVISED SHEET NO.89CEffective October 11, 2012June 8, 2015Effective June 8,2015June 1, 2017Effective June 8,2015

RATE ADJUSTMENT MECHANISM PROVISION (continued)

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c) Pro-forma adjustments to remove from recorded revenues any out-of-period Earnings Sharing Revenue Credits or Major

HAWAII ELECTRIC LIGHT COMPANY, INC.

Transmittal Letter Dated June 3, 2015March 31, 2017.

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RATE ADJUSTMENT MECHANISM PROVISION (continued)

Capital Projects Credits recorded during the Evaluation Period, and

d) A calculation comparing the achieved return on average common equity to the following earnings sharing grid, and indicating the Earnings Sharing Revenue Credit that should be recorded within the Revenue Balancing Account to effect the prescribed sharing of earnings above authorized levels:

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

RAM Period RAM Revenue Adjustment Calculation:

- 2) The Company shall provide additional schedules indicating the following proposed RAM Revenue Adjustment Calculation applicable for the RAM Period using the methodology set forth below:
 - a) The O&M RAM Adjustment shall adjust Base Expenses segregated between labor and non-labor components and treated as follows:
 - i. The labor component shall be quantified for the RAM Period by application of the Labor Cost Escalation Rate, reduced to account for the Productivity Offset to labor expenses, including payroll taxes. The part of Base Expenses that represents labor costs for merit employees shall not be subject to application of the Labor Cost Escalation rate, nor be reduced by the Productivity Offset.
 - ii. The Non-labor components quantified for the RAM Period by application of the Non-labor Escalation Rate to non-labor Base Expenses. Non-labor components shall exclude fuel, purchased power, pension/OPEBs, IRP/DSM or other rate adjustment provisions.
 - b) Depreciation and Amortization RAM Adjustment shall be quantified for the RAM Period by application of Commissionapproved accrual rates and methods to the actual recorded

HAWAII ELECTRIC LIGHT COMPANY, INC.

RATE ADJUSTMENT MECHANISM PROVISION (continued)

Plant in Service balances at the end of the Evaluation Period.

- c) The Rate Base RAM Return on Investment Adjustment shall be determined by multiplying the applicable Pretax Rate of Return times the change in Rate Base. The Pretax Rate of Return shall include related income taxes on the equity components of the Return on Investment rate approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case. The quantification of Rate Base is specified in greater detail in part (f) of this Section 2.
- d) The revenue impact of any Exogenous Tax Changes shall be included in the RAM Period calculation of the RAM Revenue Adjustment.
- e) Revenue taxes shall be adjusted to account for the change in parts (a) through (e) of this Section 2.
- f) Rate Base for the RAM Period shall be quantified as follows:
 - i. Plant in Service, Accumulated Depreciation, Accumulated Deferred Income Taxes and Contributions in Aid of Construction ("CIAC") shall be a <u>two-point</u> <u>average</u> of actual recorded balance sheet data at December 31 of the Evaluation Period, plus projected values at December 31 of the RAM Period determined as prescribed in parts (ii) through (v), below.
 ii. Plant in Service shall be quantified by adding to
 - 11. Plant in Service shall be quantified by adding to the recorded balances at December 31 of the Evaluation Period, the simple average of Baseline Capital Projects plant additions recorded in the immediately preceding five calendar years, plus the estimated cost of completed Major Capital Projects that are anticipated to be in service by September 30 of the RAM Period. The cost of Major Capital Projects shall be limited to the dollar amounts previously approved by the Commission, and shall be included at the level of recorded costs if recorded costs are lower than the budget amounts approved by the Commission, and the Commission has not yet reviewed the project costs in a rate case.
 - iii. Accumulated Depreciation at December 31 of the RAM Period shall be quantified by increasing the recorded balances at December 31 of the Evaluation Period by the amount set forth in Section 2 part (b) above, consistent with rate-making treatment.

HAWAII ELECTRIC LIGHT COMPANY, INC.

REVISED SHEET NO. 89F Effective June 8, 2015

RATE ADJUSTMENT MECHANISM PROVISION (continued)

- iv. CIAC shall be quantified by adding to the recorded balance at December 31 of the Evaluation Period an estimate of the net change for the RAM Period. The net change shall be based on a simple average of cash and in-kind CIAC for the immediately preceding five calendar years for programs (i.e., numerous low cost capital projects) plus specific engineering estimates of any contributions for the Major Capital Projects anticipated to be in service by September 30 of the RAM Period.
 - v. Accumulated Deferred Income Taxes shall be quantified by adding to the recorded balances at December 31 of the Evaluation Period the estimated tax effect of the depreciation timing difference (i.e., difference between book depreciation and tax depreciation) on the Baseline Capital Projects and Major Capital Projects added to rate base during the RAM Period.
- vi. Working Cash and all other elements of rate base not specifically addressed above shall be fixed at the dollar amount approved by the Commission in the last issued Decision & Order in the Company's most recent test year general rate case. These elements of rate base shall be held constant until revised by a future Commission Decision & Order in a general rate case.
- g.) See also Settlement Agreement section below.

RAM REVENUE ADJUSTMENT CAP

The RAM Basis for the calculation of the RAM Revenue Adjustment Cap shall be the target revenues determined in accordance with the RBA tariff based on the results of the Company's most recent final rate case decision. The RAM Basis shall be adjusted 1) as described below in the determination of the 2014 Rate Base RAM - Return on Investment Adjustment and the 2014 Depreciation and Amortization RAM Adjustment, and 2) to exclude or otherwise appropriately account for adjustments for the recovery of revenues for previously explicitly stipulated and approved exceptional matters or other matters specifically ordered by the Commission, which shall, in any event, be recovered fully without respect to any limitations resulting from application of the RAM Revenue Adjustment Cap.

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

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

HAWAII ELECTRIC LIGHT COMPANY, INC.

Superseding Sheet No. 89GREVISED SHEET NO. 89GEffective March 30, 2014Effective June 8, 2015

RATE ADJUSTMENT MECHANISM PROVISION (continued) Exception to the calculation of the RAM Revenue Adjustment Cap:

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

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

Evaluation Procedures

Complete, indexed workpapers and electronic files supporting the RAM Adjustment, Earnings Sharing Revenue Credits, and Major and Baseline Capital Projects Credits Schedules shall be provided to the Commission, the Consumer Advocate and all other parties to the Utility's most recent rate case proceeding ("Other Rate Case Parties"), if any, coincident with the Annual Evaluation Date filing. The Company will be prepared to provide information as may be requested to ensure adequate review by the Commission, Consumer Advocate, Other Rate Case Parties, and other interested persons. The Consumer Advocate, Other Rate Case Parties, and other interested persons may propose any adjustments determined to be required to bring the schedules into compliance with the above provisions and will work collaboratively to reach agreement on any proposed adjustments.

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

HAWAII ELECTRIC LIGHT COMPANY, INC.

Superseding Sheet No. 89H Effective March 30, 2014 REVISED SHEET NO. 89H Effective June 8, 2015

RATE ADJUSTMENT MECHANISM PROVISION (continued) As described in Sections 6-61-61 and 6-61-111 of the Hawaii Administrative Rules, Title 6, Chapter 61, based upon the Company's filed schedules and in the absence of any protests submitted by the Consumer Advocate, Other Rate Case Parties, or other interested persons, not later than 15 days before the June 1 effective date of the RBA Rate Adjustment described in the RBA Provision tariff, the RBA Rate Adjustment incorporating the RAM Revenue Adjustment, Earnings Sharing Revenue Credits, and Major and Baseline Capital Projects Credits shall go into effect on the June 1 effective date, and the Commission shall confirm the commencement of the RBA Rate Adjustment in its monthly Tariff Order.

Notice

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

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

SETTLEMENT AGREEMENT

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

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

HAWAII ELECTRIC LIGHT COMPANY, INC

SHEET NO. 891 Effective June 8, 2015

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RATE ADJUSTMENT MECHANISM PROVISION (continued)

COMMISSION'S AUTHORITY

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

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HAWAII ELECTRIC LIGHT COMPANY, INC

ATTESTATION

Tayne S. Y. Sekimura, is the Financial Vice President of Hawai'i Electric Light 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.

Jarme & J Sekur

Tayne S. Y. Sekimura

Attachment 2 - List of Schedules and Workpapers

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Schedule A	HELCO-WP-A-001
Schedule A1	HELCO-WP-A1-001
Schedule B	HELCO-WP-A1-002
Schedule B1	HELCO-WP-B-001
Schedule B2	HELCO-WP-B-002
Schedule C	HELCO-WP-B-003
Schedule C1	HELCO-WP-B-004
Schedule C2	HELCO-WP-B-005
Schedule D	HELCO-WP-B-006
Schedule DI	HELCO-WP-C-001
Schedule D2	HELCO-WP-C-002
Schedule D3	HELCO-WP-C-003
Schedule D4	HELCO-WP-D1-001
Schedule E	HELCO-WP-D4-001a
Schedule F	HELCO-WP-D4-001b
Schedule F1	HELCO-WP-D4-002
Schedule F2	HELCO-WP-F-001
Schedule G	HELCO-WP-F1-001
Schedule G1	HELCO-WP-F1-002
Schedule G2	HELCO-WP-H-001
Schedule G3	HELCO-WP-H1-001
Schedule H	HELCO-WP-H-002
Schedule I	HELCO-WP-H-003
Schedule J	HELCO-WP-H-004
Schedule K	HELCO-WP-H-005
Schedule K1	HELCO-WP-H-006
	HELCO-WP-H-007
	HELCO-WP-H-008
	HELCO-WP-K1-001

HELCO-WP-K1-002

HAWAII ELECTRIC LIGHT COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF 2017 REVENUE BALANCING ACCOUNT RATE ADJUSTMENT

Line No.		Reference	Amount	Rate Amount
	(8)	(b)	(c)	(d)
	RECONCILIATION OF RBA BALANCE:			
1	RBA Prior calendar year-end balance	Schedule B	\$ 3,018,216	
2	Revenue Tax Factor	Schedule C	1.0975	
3	Revenue for RBA Balance			\$ 3,312,492
	RATE ADJUSTMENT MECHANISM "RAM" AMOUNT:			
4	Total RAM Revenue Adjustment Allowed (Note 2)	Schedule A1		\$ 11,775,699
5	EARNINGS SHARING REVENUE CREDITS - 2015 ROE:	Schedule H		\$-
6	PUC-ORDERED MAJOR OR BASELINE CAPITAL PROJECTS CREDITS:	Schedule I		\$ -
7	TOTAL RBA REVENUE ADJUSTMENT	Sum Col. (d)		\$ 15,088,191
8	GWH SALES VOLUME ESTIMATE JUNE 2017 - MAY 2018	HELCO-WP-A-001		1,038.203
9	RBA RATE ADJUSTMENT - cents per kWh	Note (1)		1.4533
10	MONTHLY BILL IMPACT @ 500 KWH			<u>\$ 7.27</u>
	Note (1): 2017 RBA Rate Adjustment Breakdown		Rate Adjustment	Percentage
	· · ·	Col. (d)	cents per kWh	Share
	RBA Balance	5 3,312,492	0.31906015	21.9542%
	RAM Amount	\$ 11,775,699	1.13423857	78.0458%
	Earnings Sharing Revenue Credits	ş -	0.00000000	0.0000%
	Major or Baseline Capital Projects Credits	<u> </u>	0.00000000	0.0000%

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

\$ \$

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15,088,191

1.45329872

100.0000%

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

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Line No.	Description	Reference	Amount					
	(a)	(b)		(c)				
	RAM REVENUE ADJUSTMENT DETERMINED ACCORDING TO E	IXISTING TARIFFS AND PI	ROCEDI	JRES				
1	O&M RAM	Schedule C	\$	5,782,944				
2	Rate Base RAM - Return on Investment (Note 2)	Schedule D	\$	(2,481,749)				
3	Depreciation & Amortization RAM Expense	Schedule E	\$	8,711,708				
4	Total RAM Revenue Adjustment		\$	12,012,903				
5	Less: Adjustment for Change in On-cost Clearing Allocation	Note 3	\$	(231,340)				
6	Less: 2016 Revised Adjustment for Change in On-cost Clearing Allo	c Note 4	\$	(5,864)				
7	Total Adjusted RAM Revenue Adjustment		\$	11,775,699				
	RAM REVENUE ADJUSTMENT CAP							
8	RAM Cap for 2017 RAM Revenue Adjustment	Schedule J	\$	12,249,300				
9	Plus: Exceptional and Other Matters	Schedule K	•	372,114				
10	2017 Cap - Total RAM Revenue Adjustment		\$	12,621,414				
11	Total RAM Revenue Adjustment Allowed (Note 1)	Lesser of Line 6 or Line 9	\$	11,775,599 To Sch A				
Note 1	RAM Revenue Adjustment Allowed: See Order No. 32735, filed March 31, 2015, paragraph 106, page 94 "The RAM Revenue Adjustment to be applied to determine effective Revenue Adjustment determined according to existing tariffs and pro ("RAM Cap) to be calculated as specified."	Target Revenues will be the						
Note 2	<u>Total RAM Cap</u> : See Order No. 32735, filed March 31, 2015, paragraph 110, page 96 "The RAM Cap will apply to the entire RAM Revenue Adjustment inc Major Capital Projects and Baseline Projects), and the Depreciation	luding the O&M RAM, Rate	Base RA	M (including				
Note 3	Order No. 32866, par. 18 required the Company to adjust its 2015 R. expense reduction impact associated with the change in on-cost clear adjustment made to the 2015 RAM revenue adjustment was based of on-cost clearing allocation. In calculating the 2017 RAM revenue ad procedures, the adjustment has been updated to reflect the 2016 O8 allocation. See HELCO-WP-A1-001 for the calculation.	aring allocation identified by on the 2014 O&M expense in justment determined accord	the Com npact of ing to ex	pany. The the change in isting tariffs and				
Note 4	Adjustments to the 2016 Decoupling filing on-cost clearing allocation The 2016 Schedule A1 and HELCO WE A1 001 were corrected and							

Adjustments to the 2016 Decoupling filing on-cost clearing allocation calculation were identified in 2017 and corrected. The 2016 Schedule A1 and HELCO-WP-A1-001 were corrected and included as HELCO-WP-A1-002 for reference. Revisions did impact the 2016 Decoupling filing because the RAM Revenue Adjustment Tariff calculation was utilized in determining the Total RAM Revenue Adjustment Allowed. Therefore, in 2017 the Company is recognizing the adjustment as a reduction to the RAM Revenue Allowed.

Hava'l Electric Light Company, Inc. DECOUPLING CALCULATION WORKBOCK SUMMARY OF ACCUMULATED REVENUE BALANCING ACCOUNT

Line No.			Month (a)		Month Balance Rev		Target Recorded Adjusted Revenues Revenue (c) (d)		Adjusted	Variance to RBA (e)			Adjustment for prior year RBA 		Adjustment (e)		Tax-effected Batance bject to interest (h)	interest at 3.25%/year (i)			Ending Balance		
	Monthly RBA Balance a	_ 4 4 _ 1		r 0			1-2		(0)		1.4		(6)				17		01				
	MOTUNY REA Balance a	ng Acc	nty (Morshiy PO	ic rip	r, rg. os																		
1	2015 December	\$	5,385,665	5	12,227,848	5	11,717,628	\$	510,220	S	(656,372)	\$	6,577	\$	3,249,491	\$	9,801	5	5,254,911				
3	2015 January	5	5,254,911	\$	11,939,793	\$	11,520,530	\$	419,263	\$	(638,938)	5	-	\$	3,143,125	5	8,513	5	5,043,749				
4	February	5	5,043,749	\$	10,889,698	\$	10,938,100	5	(48,202)	\$	(599,292)	\$		\$	2,883,449	\$	7,809	5	4,404,064				
5	March	5	4,404,064	\$	12,026,039	5	11,738,019	- \$	290,020	\$	(648,155)	\$	•	\$	2,581,050	5	6,990	5	4,052,919				
6	April	\$	4,052,919	\$	11 508 563	\$	11,431,994	\$	76,569	5	(632,139)	\$	•	\$	2,306,229	5	6,246	\$	3,503,595				
7	May	\$	3,503,595	5	12,040,414	\$	11,611,450	\$	428,964	5	(639,573)	5		\$	2,076,016	\$	5,623	\$	3,298,609				
8	June	5	3,298,609	5	11,915,194	\$	11,438,489	\$	476,705	- \$	(457,630)	5	35,136	5	2,042,411	5	5,532	\$	3,358,352				
9	July	5	3,358,352	\$	12,600,646	\$	12,294,769	5	305,877	5	(489,809)	\$	-	\$	1,995,435	\$	5,404	5	3,179,824				
10	August	\$	3,179,824	\$	12,892,327	5	12,638,242	5	254,085	\$	(504,602)	5	1,703	\$	1,867,074	\$	5,057	5	2,936,067				
11	September	\$	2,936,067	5	12,236,044	5	11,698,773	- \$	537,271	\$	(469.538)	\$	56,356	5	1,848,760	5	5,007	\$	3,065,163				
12	October	\$	3,065,163	\$	12,542,309	\$	12,229,994	5	312,315	5	(493,000)	5	•	\$	1,817,318	\$	4,922	5	2,889,400				
13	November	5	2,889,400	\$	12,046,450	5	11,352,550	\$	693,900	5	(452,599)	\$	-	\$	1,838,840	\$	4,980	S	3,135,681				
14	December	5	3,135,681	5	12,396,468	\$	12,033,954	\$	362,514	5	(485,066)	\$	-	\$	1,878,154	\$	5,087	\$	3,018,216				
15																			To Sch A				
16	2017 January	5	•	\$	12,104,787	\$	-	- \$	-	- 5	-	\$	-	\$	-	5	-	\$	•				
17	February	\$	•	5	11,040,149	\$	-	- 5	-	\$	•	\$	-	\$	•	\$	-	\$	•				
18	March	5	•	S	12,192,291	\$	-	\$	•	- \$	-	\$	•	\$	-	- \$	•	5	•				
19	April	5	•	\$	11,667,264	\$	-	\$	•	\$	-	5	•	\$	-	5	•	\$	•				
20	May	5	-	5	12,206,875	- \$	•	\$	•	5	-	\$	-	\$	•	\$	-	\$	•				
21	June	5	-	5	12.156.545	\$	•	\$	-	- 5	•	\$	•	5	•	\$	•	\$	-				
22	Juty	\$	-	5	12,855,881	\$	•	\$	-	5	•	\$	-	\$	•	\$	-	\$	•				
23	August	\$	•	\$	13,153,471	5	-	\$	-	\$	•	5	-	\$	•	\$	-	\$	•				
24	September	\$	-	\$	12,483,894	\$	-	\$	-	5	•	\$	-	\$	-	\$	-	\$	-				
25	October	\$	-	- \$	12,796,363	5	•	\$	-	s	•	\$	-	5	•	\$	-	\$	•				
26	November	\$	-	\$	12,290,461	\$	-	\$	-	5	•	\$	-	5	•	\$	-	\$	•				
27	December	\$	•	\$	12,647,569	\$	-	\$	•	\$	•	\$	-	\$	•	\$	-	5	•				
	Sources of Data:				Sch. B1		Sch. 82		Coi (c) - (d)		Note (2)		Note (1)					Ca	s (b)+(e)+(l)+(g)+(l)				
					Соп	xposit			come Tax Rate lor (1/1-tax rate)		38.91% 1.636929121	(k) (1)											

Note (1): Adjustment Summary

		Workpaper		BA True-up diustment		RBA Interest		Total	
Year	Month	Reference	Sch	182, Line 18		Adjustments		Adjustment	Adjustment Description:
2018 J	une	HELCO-WP-8-002	3		ज	•	5	835	Ade to correct customer rate schedule from G to R
2016 J	une	HELCO-WP-B-003	\$	34,301	\$	•	\$	34,301	Adi to correct Sched F SAP power factor
2018 A	ugust	HELCO-WP-B-004	5	1,703	ŝ	-	ŝ	1,703	Adj to correct customer rate schedule from G to R
2016 S	eptember	HELCO-WP-B-005	5	54,674	\$	1,682	\$	58,358	Adj to correct Sched J incorrect consumptive value
									-

Note (2)

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.--Amounts represent recovery of prior years' RBA balance through the RBA rate adjustment effective June 8, 2015 for the period January 1, 2016 through May 31, 2018 and June 1, 2016 for the period June 1, 2016 through May 31, 2017. See WP-B-001,

HAWAILELECTRIC LIGHT COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TARGET REVENUES

Line No.	Description					-	Dockat No, 2009-0164 Amounta (d)	2	ocket No. 009-0164 Amounta (e)	2	ocket No. 909-0164 Amounte (f)	Dockst No. 2009-0164 Amounts (g)		Docket No. 2009-0154 Amounts (h)	
1	Last Rate Case Annual Electric Revenue at Approved Rate Levels	Note (1)	\$000s	5	355,605	\$	355,605	\$	355,605	s	355,605	\$	355,605	\$	355,605
2	Less: Fusi Expense	Note (1)	\$000#	\$	(80,078)	\$	(80,078)	\$	(80,078)	5	(80,078)	5	(80,078)	\$	[80,078]
3	Purchased Power Expense	Nate (1)	\$000s	\$	(105,866)	\$	(105,866)	5	(105,866)	5	(105,866)	\$	(105,666)	\$	(105,866)
4	Revenue Taxes on Line 1 (8.685% statutory mos)		\$000s	5	(31,59G)	\$	(31,596)	5	(31,596)	ś	(31,596)	\$	(31,596)	5	(31,596)
5	Lost Rote Order Target Annual Revenues	Sum Lines 1 thru 4	\$000s	\$	138,065	\$	138,065	\$	138,065	\$	138,065	\$	1 38,06 5	\$	138,065
6	Add: Authorized RAM Revenues - Transmittal No. 15-04	Note (2)	\$000s	\$	6,232	\$	6,232	\$	-	\$	•	\$	•	\$	-
7	Less: Revenue Taxes on Line 9 at 6.885%		\$000s	- 1	(554)	\$	(554)	\$	•	5		5	<u> </u>	<u> </u>	-
8	Net RAM Adjustment - Test Year +5	Line 6 + Line 7	\$000s	\$	5,678	\$	5,678	\$	•	5	-	\$	-	\$	•
9	Authorized RAM Revenues - Transmittal No. 18-02	Nate (3)	\$000a	5	•	s	•	\$	8,534	\$	8,534	\$	-	\$	•
10	Less: Revenue Taxes on Line 9 at 8.6859		\$000s	5	-	5	<u> </u>	\$	(758)	5	(758)	*	•	+	-
11	Net RAM Adjustment - Test Year +8	Line 9 + Line 10	\$000a	\$	•	\$	•	2	9,715	3	7,775	*	•	\$	•
12	Authorized RAM Revenues	Sch A, Line 4	\$000a	5	-	\$		5	-	5	•	\$	11,776	\$	11,778
13	Less: Revenue Taxes on Line 12 at 8.885%		\$000%	\$		s		5		\$	-	\$	(1,046)	5	(1,048)
14	Net RAM Adjustment - Test Year +7	Line 12 + Line 13	\$000a	\$	•	\$	•	\$	-	\$	•	*	10,729	5	10,729
15	Less: EARNINGS SHARING REVENUE CREDITS	Sch A, Line 5 or Sch I	\$000a \$000a	\$ 5	•	3	•	\$	•	\$	-	5	-	5	-
18 17	Less: Revenue Taxes on Line 15 et 8,885% Net Eamings Shering Revenue Credit	Line 15 + Line 16	\$000%	+		÷	<u> </u>	÷	<u> </u>	÷	<u> </u>	÷	<u> </u>	÷	
	• • • • • • • • • • • • • • • • • • • •			•	•	•	-	•	•		·				-
18	PUC-ORDERED MAJOR OR BASELINE CAPITAL CREDITS:	Sch A, Line 6 or Sch	\$000s	<u>s</u>	<u> </u>	5	•	- 2	<u> </u>			-		2	<u> </u>
19	Total Annual Target Revenue:														
20	HELCO TY 2010 Final Annualized Revenue	Line 5	\$000s	5	138,085	5	138.065	\$	138,065	\$	138,065	\$	138,065	5	138,055
21	KELCO TY 2010 + 2014 RAM Annualized Revanue	Line 5 + Line E	\$000*	5	143,743	\$	143,743	-							
22	HELCO TY 2010 + 2015 RAM Annualized Revenue:	Line 5 + Line 11	\$000s					5	145,841	\$	145,841				
23	KELCO TY 2010 + 2018 RAM Annualized Revenue:	Line 5 + Line 14	\$000s									\$	148,795	\$	148,795
24	Distribution of Target Revenues by Month:	Note (4)	Note (5)		2015		2016		2016		2017		2017		2018
25	January	8.30%	8.45%	_		5	11,939,793	_		3	12 104 787			3	12,349,979
28	February	7.57%	7.72%			\$	10,889,898				11,040,149				11,263,775
27	March	8.36%	8.52%				12,028,039				12,192,291				12,439,256
25	April	8.00%	8.18%				11,508,563				11,687,254				11.903,594
29	May	8.37%	8.53%			5	12,040.414			5	12,208,875			*	12,454,135
30 31	June- effective data of RAM Change is June 8, 2011	8.17% 8.64%	8.39% 8.81%		11,642,774				11,915,194				12,158,545		
31	Juty Auguzt	8.84%	9.00%		12,429,089				12,892,327				13,153,471		
33	Sectember	8.39%	8.55%		12.059,162			š	12,238,044				12,483,894		
34	October	8.60%	8.77%		12.371.592			\$	12,542,309				12,796,383		
35	November	8.26%	8.42%		11,882,298				12,048,450				12,290,481		
36	December	8.50%	B.67%		12,227,848	_			12 398 468				12,647,589		
37	Total Distributed Target Revenue:	100.00%	100.00%	- 3	85,338,769	\$	58.404,707	3	88,629,438	3	59,211,385	3	89,384,164	3	60.410,740

Footnotes:

See Letter to Commission, Subject: HELCO Revised Schedules Resulting from Decision and Order No. 30168, Exhibit 1A, page 1, filed February 21, 2012, in Docket No. 2009-0184.
 Transmittal 15-04 filed June 3, 2015 establishing 2014 RAM effective June 6, 2015.
 Transmittal 18-02 filed Mary 19, 2018 establishing 2015 RAM effective June 1, 2018.
 Source: HELCO RBA Provision Tariff effective June 1, 2018 based on 2010 test year.

5 Derivation o	Derivation of RAM Revenue Allocation, for June 8, 2015 to May 31, 2018.							
		June is a partial mor	total 100.00% 10					
January		8.30%	8.46%					
February		7.57%	7 727					
March		8.36%	8.52%					
April		8.00%	6.16%					
Mary		8.37%	6.53%					
	ve date of RAM Change is June 8, 2015	5.26%	6.39%					
July		8.64%	6.81%					
August		8.84%	9.00%					
September		8.39%	8.55					
Octuber		8.60%	0.77%					
November		6,26%	8,42%					
December		8.50%	8.67%					
fotal Distributed T	arcat Revenue:	68.09%	100.00%					

HAWAII ELECTRIC LIOHT COMPANY, INC. DECOURTING CALCULATION MORKBOOK DETERMINATION OF RECORDED AQUISTED REVENUES

			Ē			į						1
(a) Briled Révérues:	ê	i	Ì		5	6	Ê	8	\$	ß	\$	Ē
Current month's biled reverues (3APD)4w) Rumove Polit mereues Rumove Solar Solar Rominementes Other dectric revenues adjustments	26,474,703 (249,649) -	25,964,375 (241,632)	25,159,243 (237,170)	25.402.253 (248,234) 35.261	23,822,304 (239,368) 44,713	24,021,512 (254,051)	25,000,427 (200,018)	27, 400, 459 (122,022)	28,200.157 (327,026) 369,536	28,120,240 (15,304) (390,535)	1100,120,12 (107,200)	27,080,539 (311,627)
5. BILLED REVENUES	28,274,854	141,027,81	24,822,073	24, (89, 224	21,630,849	24,570,261	25,649,509	27, 160,258	23,269.668	27,408,409	14,722,M3	26,768,812
<u>UNBILED REVENCES</u> Currier mouths unablad revenues (Unitified Sease and Revenue Est) Revenues prox monther unablad rownes (Unablad Sease and Revenue Est) Urablad revenues nor utablad rownes (Revenue Estimate	12,802,772 (12,550,345) 222,387	12.055.498 [12.602.732] [147.234]	12,875,625 (12,055,430) 820,027	12, 378,500 (12,675,525) (498,626)	12,850,480 (12, <u>378,599)</u> 513,081	11,506,856 (12,880,450) (981,624)	12,888,356 (11,806,856) 857,500	14,402,170 (12,066,356) 1,525,014	12,916,505 (14,422,170) (1,573,555)	13,251,607 (12,918,509) 333,302	12,110,061 (13,251,607) (1,141,726)	13,578,230 (12,110,081) 1,408,148
Recovery of 13.31-14 RBA behaves through RBA Rata Adjustment beginning 0-9-15 Recovery of 12.3-115 RBA behaves through RBA Rata Adjustment beginning 0-1-16 Romani of PCAC eductment Accenta of PCAC evidence	(101,243) (1,004,000) 200,422 (142,700)	(157,731) (157,731) (100,367) (1015,000)	(000,151) (000,151) (100,201)	(187,699) (062,771) (096,601) (004,852)	(006,107) , 1,251,000 , 1,265,800 , 1,265,800 , 1,265,800 ,	(502,255) (96,600) 649,058 (150,600)	(537,572) (221,300) 849,064 (305,600)	(553, 608) (221, 209) 236,013 (142, 109)	(315,325) (319,500) 286,000 (310,000)	(541,074) (521,000) 228,004 (182,400)	(406,734) (259,400) 287,334 2,400	wP-B-001 p 1 (\$32,367) wP-B-001 p 2 (\$13,000) 231,334 (\$3,400)
Revensa of PAXC consum Receives consum SCAII reverves Address force perford REAA redetores bases Address force prodict REAA redetor reverves bases Address of converts revords v. REAA (PAXC Northby Francisch Report pp. BA)	0007271 2022 2021 2022 2022 2022 2022 20	(1011) (1011) (1011) (1011) (1011) (1011)		205, 734 70, 569 7 467	444.554 • • • • • • • • • • • • • • • • • • •	444,034 35,136 35,136 370,706 470,706	20	241560 241, 770 241, 1700 241, 17000 241, 17000 241, 17000 241, 1700000000000000000000	218,500 54,674 54,777 557,777 22,297	216.000 312.315 30.455	153,034 000,900 01,665	100 KS1 100 KS
ts not on the set of the state internal internal 2019 - Nésocial Annotas, un balled accordia	(+90'919'1)	(2,054,067)	(208'125)	(112,446)	364.956	1,103,800	824° 123	(181,745)	256.478	(552,970)	448,700	(404,035)
21 = 8+20 UHBILLED REVERVES	(176,686,1)	(2,801,901)	292,135	(102,646.1)	576,637	122,578	1,422,228	1,444,068	(691,716,1)	(211,648)	(592,927)	1,061,214
22 = 5+21 IOTAL REVENUES PER GA. (PUC Monthly Financial Report pg. 1)	Z4,640,677	119,029,014	25,214,208	N20'848'EZ	24,509,485	24,592,437	27,070,737	23,604,325	28, 852, 478	27,184,740	26,030,022	27,630,126
Bird Administry in Detrumen Administ Revenues for ABA Add that of the sector there was adjustment - tabling adjustment accurative-rest formore EPAC, reserves formore EPAC, reserves formore DBA reserves formore DBA reserves formore DBA reserves formore to the reserves	2,050,525 (1,736,512) 142 (1,736,512) (1,13,512) (5,136,512) (5,136,512) (6,136,512) (6,136,512) (6,136,512)	2.033,134 (1,629,73) (1,629,73) (1,623,277 (1,173,173) (1,173,173) (0,427,005)	21101.2 212.101.2 212.022.11 213.022.15 223.022.15 223.022.15 223.022.15 223.022.15	3, 975, 523 112 112 112 112 112 112 112 112 112 1	4,337,565 (1,400,527) (16,121) 2,004 (2,372,001) (6,376,300) (6,376,300)	45,238 5,005,1488 1,005,1488 231 231 231 (1,1280 (1,1280 (2,160,280) (2,160,280) (2,161,280) (2,161,280) (2,161,280) (2,161,280) (2,161,280) (2,161,280) (2,161,280) (2,161,280) (2,161,280) (2,161,280) (2,161,280) (2,161,280) (2,161,280) (1,162,28	(1,110,471,682 (1,110,473) (1,110,473) (1,110,413) (1,110,413) (1,111,111,111,111,111,111,111,111,111,	6,288 3,466,013 1,473,011 1,473,011 1,4131	2,919,330 2,919,330 (1,1209,048) 14 255 (22,305) (22,305) (22,305) (22,305) (22,305) (22,312) (21,125)	2.000.217 (12.200.217) (12.207.11) (12.000.12) (12.000.12) (12.503.210) (12.503.210) (12.503.210)	3.133.020 (1,774,798) (1,774,798) (1,774,798) (21,129) (21,129) (2,4192,159) (6,844,584)	2.4970.823 (1.785,782) (1.785,782) (1.785,782) (1.455,777) (6,344,6277) (6,344,6277) (6,777,987)
Limited Analiament to Determine Advance Reverses for RBA. Remore ECAC remains Remore PCAC section Remore PAAC section Remore PAAC section Remore DAA removes Remore RAA removes Remore RAA reaction Remore RAA reaction Remore RAA reaction for removes Remore RAA reaction for removes	188,418 (1985-1) (1985-1) (1985-1) (1985-1) (1985-1) (15,259 (15,259 (15,259) (15,259) (15,259) (15,259)	(185.873) (118.873 118.8244 118.8244 11	74,581 244,381 244,381 274,381 (108,533) (108,533) (108,533) (108,163) (108,	25, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12	28,000 28,000 28,000 28,000 (17,285 (17,285 (17,285 (17,285 (12,12,00) (12,12	(184, 142) (184, 142)	(152, 252) (152, 784) (152, 784) (152, 784) (153, 784) (153, 784) (154, 775) (154, 175) (154, 175) (154, 175)	(14,833) (14,833) (14,833) (14,833) (14,833) (14,833) (14,833) (14,833) (14,833) (14,833) (14,833) (14,133) (14	(157, 251) (157, 251) (157, 251) (157, 252) (175, 252)	227,084 391,165 391,165 (37,539) (30,539 (31,2394) (31,234) (31,234) (336,539) (336,549) (336,549)	(102.207) 51.280 (112.200 (112.200 (112.201) 202.215 201.101 201.101	(1921) (1
46 = 121-45 Total bitsod and unbilled adjustments to distrimine adjusted raverues for REA	(13,140,349)	(11,962,746)	(13,478,189)	(12,414,029)	(12,898,033)	(13,253,948)	(14.778.968)	(15,060,003)	(907,622,81)	(14,558,747)	(172,772,471)	(15,790,171)
RECORDED AQUUSTED REVENUES FOR REA DETERMINATION (PUC Monthy Financial Report pg. 94.1)	013,053,11	10,938,100	610'002'11	11,421,944	11,811,450	11,435,409	12,284,769	12,638,242	£44' 869' 11	12,226,004	055,556,11	12,011,054
		Remove p16 for memory A Remove p16 for memory A Remove p16 for memory A RELED REVERUES A RELED REVERUES A Remove p16 for memory B Remove p16 for memory	Encode Diff revenues (246,640) ELED REVENUES 243,4434 ELED REVENUES 243,4434 ELED REVENUES 243,4434 ELED REVENUES 243,4344 ELED REVENUES 244,4444 ELED REVENUES 244,44444<	TRUED REFERENCE (24) (46) (24) (25) Ruess Set in terment adjustment (24) (25) (24) (25) Ruess Set in terment adjustment (24) (25) (24) (25) Ruess Set in terment adjustment a	Transmission Total Service Total Service Total Service Total Service The origination of the intervention Total Service Total Service Total Service Total Service The origination Total Service Total Service Total Service Total Service Total Service The origination Total Service	District State of the	Internet in the second interval in	Control Control <t< td=""><td>Tetra between the set of the set</td><td>Instruction Total Total</td><td>Circle Circle Circle<</td><td>Construction Construction Construction<</td></t<>	Tetra between the set of the set	Instruction Total Total	Circle Circle<	Construction Construction<

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SCHEDULE B2 Page 1 OF 1

NOTE: Totah may not add enactly due to rounding.

		DECO	UPLI	NG CALCL	IGHT COMPANY	300)	Ś					
		DETERN	<u>AINA'</u>		6M RAM ADJUS pusends)	TME	<u>NT</u>					
				(a) jit, 1 lit	<u>susanus</u>							
			_		Footnote 4					2017		
				cket No. 09-0164	Previously		M Subject to Escalation	Net Inflation		SM RAM		
Line No.	Description	Reference		proved	Approved RAM		oi (c) + (d)	Indices Footnote 2		ustment il (e) * (l)		
<u></u>	(a)	(b)		(c)	(d)	_	(e)	(1)		(9)		
1	Base BU Labor Expenses	Schedule C1	\$	12,930		5	12,930	14.30%	\$	1.649		
2	Base Non-Labor Expense	Schedule C2	\$	28,371		\$	28,371	11.53%	5	3,271		
3	Payroli Taxes	Footnote 1	\$	1,043		\$	1,043	14.30%	5	149_		
	_											
4	Subtotal Expense Increase - RAM Adjus	sument before reve	nue l	axes					\$	5,269		
5	Revenue Tax Factor (Footnote 3)									1.0975		
6	O&M RAM (Subtotal Expenses x Rev T	ax Factor)							\$	5,783	To Sch A1	
	Footnotes:											
	1: See Letter to Commission, Subject: I	HELCO Revised s	chedi	ules Resulti	ing from Decision	andi						
	Order No. 30168, dated February 21	, 2012, in Docket I	No. 2	009-0164, E	Exhibit 1A, p.11	\$	1,523					
	Less: Portion of payroll taxes related Payroll Taxes related to Bargaining U		(3),	00% 1,92.	3)	<u>\$</u>	(480)					
	Fallor faces feared to burgering o					Ŭ	1,040					
	A see Schedule C1 for calculation	of percentage reli	sted I	to non-BU t	abor.							
	2: Escalation Rates											
	Labor	2011		2012	2013		2014	2015		2016	2017	
	Bargaining Unit Wage Increase	1,75%		2.46%	2,88%		3.00%	2.91%		3.07%	2.75%	(See HELCO-WP-C-001)
												Approved in Final D&O in Docket No. 2008-0274, page
	Less: Labor Productivity Offset	0.76%		0.76%	0.76%		0.76%	0.76%		0.76%	0.76%	51, filed on August 31, 2010
			_									
	Lapor Cost Escalation Rate	0.99%		1.70%	2.12%		2.24%	2,15%		2.31%	1.99%	
	Calculation of 2011-2017 Compounde	d Labor Cost Esci	etofio	~								
	2011 Labor Cost Escalation		una a c	1,0099	A (2011 labor e	scala	tion plus 1)					
	2012 Labor Cost Escalation			1,0170	8 (2012 labor e	scela	tion plus 1)					
	2013 Labor Cost Escalation			1.0212	C (2013 labor e							
	2014 Labor Cost Escalation 2015 Labor Cost Escalation			1.0224	 D (2014 labor e E (2015 labor e 							
	2016 Labor Cost Escalation			1.0231	F (2016 labor e							
	2017 Labor Cost Escalation			1.0199	G (2017 labor e	scala	tion plus 1)					
	2011-2017 Compounded Labor Cost			1.14 0.1430	H=A'B'C' =H-1	D.E	'F'G					
	2011-2017 Compounded Labor Cost	70		0.1430	1-11-1							
	Non-Labor:	2011		2012	2013		2014	2015		2016	2017	
	GDP Price Index	1,40%		1.70%	1.70%		1.60%	1.10%		1,50%	2.00%	(See HELCO-WP-C-002)
	Celculation of 2011-2017 Compounde	d Non-Labor Cost	Escu	station								
	2011 Non-Labor Cost Escalation			1.0140	A (2011 non-lat	oor es	scelation ofus 1	11				
	2012 Non-Labor Cost Escalation			1.0170	B (2012 non-lat							
	2013 Non-Labor Cost Escalation			1.0170	C (2013 non-lat							
	2014 Non-Labor Cost Escalation			1.0160	D (2014 non-lat	bor es	scalation plus 1	1)				
	2015 Non-Labor Cost Escalation			1.0110	E (2015 non-lat	por es	scalation plus 1	1)				
	2016 Non-Labor Cost Escalation			1.0150	F (2016 non-lat	or es	scalation plus 1	1}				
	2017 Non-Labor Cost Escalation			1.0200	G (2017 non-lat			1)				
	2011-2017 Compounded Non-Labor (1.12		D'E	'F'G					
	2011-2017 Compounded Non-Labor (-USI 76		0.1153	1 = H - 1							
	3: Computation of Revenue Tax Factor											
	Public Service Tax Rate			0.05885								
	PUC Fees Rate Franchise Tax Rate			0.00500								
	Total Revenue Tax Rate			0.08885								
	Revenue Tax Factor = 1 / (1 - Total Revenue Tax Rate)			1.0975								
				1.4910								

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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 1, as shown in footnote 2.

HAWAII ELECTRIC LIGHT COMPANY, INC. <u>DECOUPLING CALCULATION WORKSHEET</u> <u>RATE ADJUSTMENT MECHANISM</u> <u>SUMMARY OF</u> <u>OPERATIONS AND MAINTENANCE LABOR AND NON-LABOR EXPENSE</u> <u>BY BLOCK OF ACCOUNTS</u> Final D&O - Docket No. 2009-0164 . (\$ in Thousands)

		(a)	(b)	(c)	=(a)+(b)	(d)	(e)
Line No.	DESCRIPTION	LABOR Note 1)	 -BU LABOR (Note 1)	<u> </u>	Total ABOR	N-LABOR Note 1)	TOTAL Note 1)
1	Production	\$ 6,456	\$ 1,764	\$	8,220	\$ 11,475	\$ 19,695
2	Transmission	841	89		930	1,468	2,398
3	Distribution	2,895	143		3,038	4,948	7,986
4	Customer Accounts	2,017	328		2,346	1,386	3,732
5	Allowance for Uncoll Accounts	-	-		0	749	749
6	Customer Service	-	758		758	649	1,407
7	Administrative & General	721	2,877		3,598	12,378	15,976
8	Austerity Adjustment	-	-		0	-365	-365
9	Operation and Maintenance	\$ 12,930	\$ 5,959	\$	18.890	\$ 32,689	\$ 51,579

Percentage of Total O&M Labor

68.45% 31.55%

100%

* amounts may not add due to rounding

(1) See HELCO Letter dated March 9, 2012, Subject: HELCO O&M Expenses Breakdown for RAM Calculation, filed in Docket No. 2009-0164, Attachment 2, p. 1. (Note: letter inadvertently shown as Docket No. 2010-0164)

HAWAII ELECTRIC LIGHT COMPANY, INC. <u>DECOUPLING CALCULATION WORKBOOK</u> <u>Non-Labor Exclusion</u> <u>Adjustment for 0&M RAM</u> (\$ in Thousands)

Line No.	Description	Æ	mount	Reference			
	(a)	-	(b)	(c)			
1	Pension Expense	\$	5,429	See Stipulated Settlement Letter filed			
2				Sep. 16, 2010, HELCO T-11			
3				Attachment 5, page 1 Final Settlement			
4				Docket No. 2009-0164.			
5							
6	Other Post-Employment Benefits (OPEB) Expense	\$	337	Id., HELCO T-11, Attachment 5, page 1,			
7				Final Settlement.			
8							
9							
10	Total before amounts transferred	\$	5,766				
11							
12	O&M %		74.88%	Id., HELCO T-11, Attachment 1, page 1,			
13	(1- transfer rate of 25.12%)			Final Settlement			
14							
15	Adverture of the Mark Laboration Of M. Commercial						
16	Adjustment to Non-Labor O&M Expense	-					
17	for O&M RAM base	\$	4,317				
18							
19		•	00.000				
20 21	Non-Labor O&M Expense per Final D&O	\$	32,689	Schedule C1			
21							
22	Neg Labor ORM Evenence Page for						
23 24	Non-Labor O&M Expense Base for O&M RAM base	¢	28 274				
24	Udivi RAIVI Dase	<u>~</u>	28,371				

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HAWAII ELECTRIC LIGHT COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RATE BASE RAM ADJUSTMENT - RETURN ON INVESTMENT (\$ in Thousands)

		AMOUNTS	PERCENT		POST TAX WEIGHTED	INCOME TAX	PRETAX WEIGHTED
		IN	OF	COST	EARNINGS	FACTOR	EARNINGS
Line No.	Description	THOUSANDS	TOTAL	RATE	REQMTS	Note (2)	REQMTS
	(a)	(b)	(c)	(d)	(e)	(f)	(0)
1	PUC APPROVED CAPITAL STRUCTURE & COSTS (Note 1):					
2	Short-Term Debt	\$ 7,040	1.41%	3.25%	0.05%	1,000000	0.05%
3	Long-Term Debt	196,838	39.48%	6.15%	2.43%	1.000000	2.43%
4	Hybrid Securities	9,297	1.86%	7.38%	0.14%	1.000000	0.14%
5	Preferred Stock	6,623	1.33%	8.29%	0.11%	1.63693	0.18%
6	Common Equity	278,722	55,91%	10.00%	5.59%	1.63693	9.15%
7	Total Capitalization	\$ 498,520	100.00%		8.31%	1	11.94%
8	RAM CHANGE IN RATE BASE (From Schedule D	1)					\$ (18,938)
9	PRETAX RATE OF RETURN (Line 7, Col g)					*	11.94%
10	PRETAX RETURN REQUIREMENT						\$ (2,261.2)
11	REVENUE TAX FACTOR (1/(1-8.885%))						1.0975
12	RATE BASE RAM - RETURN ON INVESTMENT						\$ (2,481.7) To Sch A1

Footnotes:

1 See Letter to Commission. Subject: HELCO Revised schedules Resulting from Decision and Order No. 30168, dated February 21. 2012, in Docket No. 2009-0164, Exhibit 1A, p.2.

2 Composite Federal & State Income Tax Rate	38.91%
Income Tax Factor (1 / 1-tax rate)	1.636929121

See Letter to Commission, Subject: HELCO Revised schedules Resulting from Decision and Order No. 30168, dated February 21, 2012, in Docket No. 2009-0184, Exhibit 1A, p.12.

HAWAII ELECTRIC LIGHT COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF RATE BASE RAM ADJUSTMENT - CHANGE IN RATE BASE (\$ in Thousands)

				_		_							_
			HELCO 2010 Test	Y	ear Rate Base	Ľ			201	7 RAM Rat	e Ba	se	
							Adju						
			Beg Balance		Budgeted Balance		Recon			Projected		stimated at	
Line No.	Description		12/31/2009		12/31/2010	_	12/31		A	mounts		12/31/2017	_
	(a)		(b)		(c)		(c Note		Soo f	(e) Detail Belov		(f)	
1	Net Cost of Plant in Service	\$	567,375	5	S 597,486			561,243		7,237		668,480	n
2	Property Held for Future Use	•	-	`	-	Ē		001,2-0	<u>.</u>	1,201		000,400	ĥ
3	Fuel Inventory		8.848		8,848			:	Thes	e Elements			
4	Materials & Supplies Inventories		3,944		3,944					ite Base an		-	
5	Unamort Net SFAS 109 Reg Asset		11,803		11,633					Updated for			
õ	Unamort Sys Dev Costs		1,184		1,455			•		A Purposes			
ž	Pension Asset		4,888		2,668				. רעיים	n r uipoaca	· .	-	
8	ARO Reg Asset		205		209		,			•			
9	CIS Deferred Costs		205		200	L		1,797		(214	`	1.50	3 HELCO-WP-D1-001, Page 1
	CIG Delened COSIS					Г		1,131	**	e Elemente		1,30	THELCO-WP-01-001, Page 1
10						Т				ite Base ar			1
11 12													
	Dension Dag Basel		4 450		4.016	1		NOI UP	oateo	I for RAM P	urpo	565	
13	Pension Reg Asset	5	4,156	_	4,916	Ľ		007 004		7 000		704 444	
14	Total Additions	3	602,403	1	\$ 631,159	•		697,3 9 1	3	7,023	, ,	704,41	3
15	Unamonized CIAC	\$	(69,566)		\$ (73,019)	_:	\$	(97,211)	S	(3,677	') S	(100,88)	7)
16	Customer Advances		(27,912)		(29,995)	Г							
17	Customer Deposits		(2,703)		(2,751)	E.			No	t Updated			
18	Accumulated Def Income Taxes		(31,776)	ŀ	(46,003)	_	(110,550)		(7,287	')	(117,83)	7)
19	Unamortized State ITC (Gross)		(12,301)	ł	(13,314)	Г							1
20	Unamortized Gain on Sale		-										
21	Pension Reg Liability		•		•				No	t Updated	•		
22	OPEB Reg Liability		(100)	ł	(319)			. · · · .		•		1. I.	
23	Total Deductions	\$	(144,358)		\$ (165,401)		5 (252,458)	\$	(10,963	3) \$	(263,42	1)
24	Working Cash	\$	3,238	:	\$ 3,238	C	5	3,238	No	t Updated	S	3,234	8
25	Rate Base at Proposed Rates	\$	461,283		\$ 468,996		5	448,170		•	\$	444,234	n
26	Average Rate Base	*	401,200		\$ 465,139		<i>•</i> ·				s	446,20	
27	Change in Rate Base				400,105						۱, s		
21	Change in Rate base										Ŀ	(18,93)	 To Schedule D
28	Column (e) Projected Changes to Rate Base;				Reference		Am	ount					
29	Plant - Baseline Capital Project Additions			\overline{a}	Schedule D2	-	\$	49,545					
30	Major CIP Project Additions				Schedule D3		*	1,207					
31	Accumulated Depreciation/Amortization Change				Schedule E			(43,515)					
32	Net Plant	2			Sum Lines 29-31	7	5	7,237					
33	Accum. Deferred Income Taxes - Baseline and	Majo	r Capital Projects	;	Schedule F		5	(7,287)					
34	Projected CIAC Additions - Baseline			;	Schedule G	;	5	(7,034)					
35	Projected CIAC Additions - Major CIP			1	Schedule G								
36	Less: Amortization of CIAC			;	Schedule G			3.358					
37	Total Change in CIAC in Rate Base			S	Sum: Lines 34-36	2	\$	(3,677)					
Footnotes:													
1	Amounts are recorded, except for the follow	ing á	djustments: Plant in Service		Acc. Depr.		CIAC	C Net					

•

		Plar	nt in Service	_	Acc, Depr.		IAC Net		ADIT
						Sche	dule G	Sch	idute D4
[A]	Unadjusted Balance	\$	1,260,611	5	(509,836)	\$	(97,211)	s	(110,550)
[A]	Add: Asset Retirement Obligation			\$	(226)				
[A]	Reg Liab-Cost of Removal (net salvage)			\$	(89,306)				
	Major Project Adjustments:								
	NA								
	Total Adjustments	\$	•	\$	-	\$	-	\$	•
	Adjusted Balance	5	1,260,611	\$	(599,368)	\$	(97,211)	\$	(110,550)

[A] SOURCE: Hawaii Electric Light Company, Inc. Monthly Financial Report - December 2016, pages 8 and 10, filed February 24, 2017.

HAWAII ELECTRIC LIGHT 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:

			•	3/22/2013	3/31/2014	3/27/2015	3/29/2016	3/29/2017
Line No.	Description			2012	2013	2014	2015	2016
	(a)			(b)	(c)	(d)	(e)	(1)
1	Total Plant Additions			\$ 45,983,990	\$ 59,016,572	\$ 51,615,842	\$ 51,663,728	52,675,304
2 3								
4	Less Malor Projects: (+\$2.5 Million)	Dkt No.	Item No.					
5								
6	2012 In-Service							
7	None							
8								
9	2013 In-Service							
10	None							
11 12	2014 In-Service							
13	Keamuku-Keahole 6800 kV Line Recon Ph 1 - Note A	2012-0392	H0002509			(2,730,442)	141,116	1
14	Keahole CT-4 Major Overhaul - Note B	2013-0144	H0002725			(1,622,930)	(19,335)	
15	•					•••••	••••	
16	2015 In-Service							
17	None							
18								
19	2016 tn-Service							
20 21	Keamuku-Keahole 6800 69 kV Line Recon Phase 2 Keamuku-Keahole 6800 69 kV Line Recon Phase 3	2012-0392 2012-0392	H0002612 H0002668					(2,961,59
21	Keahole CT-5 Major Overhaul	2012-0392	H0002060					(2,703,18 (3,333,46
23	Realitie CT-5 Hajur Overhau	2013-0144	10002724					(3,303,40
24								
25								
26								
27								
28								
29								
30 31								
32								
33								
34								
35								
36 37								
38								
39								
40 41	Total Net Plant Additions (excluding major projects)			- (E 863 AMA			\$ 51,785,510	
41 42	rous rear mant Additions (excluding major projects)			a 42'882'880	\$ 39,010,372	⇒ 41,202,41U	a 31,763,310	43,677,07
43	Last Five-Year Average							\$ 49,545,12
	-						-	To Sch D

NOTE (A): Docket No. 2012-0392, Keamuku-Keahole 6800 kV Line Reconstruction Phase 1 Final Cost Report filed September 29, 2014, \$2,659,753 plus straggling costs of \$70,689 in 2014, less straggling credits of \$141,116 in 2015 and \$10 in 2016.

NOTE (B):

Docket No. 2013-0144, Keahole CT-4 Major Overhaul Final Cost Report filed January 29, 2015, \$1,622,930 plus straggling costs of \$19,335.

SCHEDULE D3 PAGE 1 OF 1

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HAWAILELECTRIC LIGHT COMPANY, INC, DECOUPLING CALCULATION WORKBOOK DETERMINATION OF MAJOR CAPITAL PROJECT ADDITIONS

			Estimated	
Line No.	Description	PUC Docket Reference	In Service Date	 Amount
	(a) 2017 Major Capital Project Additions by Project: Keamuku-Keahole 6800 69 kV Line Reconstruction	(b)	(c)	 (d)
1 2 3	Phase 4 (Note 1)	Docket No. 2013-0153	06/2017	\$ 1,206,833
45				
0 7 8				
9 10				
11 12				
13	Total Major Capital Projects Qualifying for 2016 R	AM		\$ 1,206,833 To Sch D1
	See Schedule G2 for related CIAC (if applicable)			

•

Note 1 Application filed on June 13, 2013 under Docket No. 2013-0153 as project costs were estimated to exceed \$2.5 million, Decision and Order No. 32930 issued on June 24, 2015 approving \$1,206,833 in funds to reconstruct the Keamuku-Keahole 6800 Line Phase 4 (at 45).

HAWAII ELECTRIC LIGHT COMPANY_INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF ADJUSTED RECORDED DEFERRED INCOME TAXES

Line No.	NARUC Account	Reference (b)	DR/(CR) Federal ADIT (c)	DR/(CR) State ADIT (d)	DR/(CR) Totai ADIT (e)
1	Recorded Deferred Income Tax Balances December 31, 2016 Recorded Balances				
2	Depreciation Related Account 282	HELCO-WP-D4-001	\$ (67,066,239)	\$ (3,628,191)	\$ (70,694,430)
3	Other Deferred Income Taxes	HELCO-WP-D4-001	(32,280,340)	(7,575,439)	(39,855,779)
4	Total Recorded Deferred Income Taxes - Utility		(99,346,579)	(11,203,630)	(110,550,209) To Schedule D1

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

Line No.	NARUC Account	Recorded Depreciable/Amort, Balance (Footnote 2)	Adjustments	Adjusted Depreciable/Amort, Balance	PUC Approved Accrual Rate in Dkt No. 2009-0321	Annual Accrual
cale reo.	(a)	(b)	(c)	(d)	(e)	(f)
	ζ,				• • •	.,
1	Plant Accounts					
2	311	18,512,026		\$ 18,512,026	0.02900	\$ 535,849
3	312	68,569,550		68,569,550	0.03080	2,111,942
4	314	48,168,201		48,168,201	0.02540	1,223,472
5	315	9,005,139		9,005,139	0.03350	301,672
6	Tot - Steam	144,254,916	-	144,254,916	0.02893	4,173,935
7						
8	331	97,513		97,513	0.00940	917
9	332	6,233,976		6,233,976	0.02030	126,550
10	333	2,107,816		2,107,816	0.02130	44,896
11	334	748,324		748,324	0.00620	4,640
12	336	121,311		121,311	0.00000	<u> </u>
13	Tot - Hydro	9,308,940	•	9,308,940	0.01901	177,002
14						
15	341	24,657,744		24,657,744	0.02640	650,964
16	342	12,632,323		12,632,323	0.01990	251,383
17	343	71,709,455		71,709,455	0.02220	1,591,950
18	344	54,240,065		54,240,065	0.01910	1,035,985
19	345	7,798,226		7,798,226	0.01710	133,350
20	Tot - Other Prod	171,037,813		171,037,813	0.02142	3,663,632
21						-1
22	Tot - Prod	324,601,669		324,601,669		8,014,570
23		02,000,000		024,001,000		0,014,070
24	350.1	3,242,961		3,242,961	0.01460	47,347
25	352	3,109,238		3,109,238	0.00890	27,672
26	353	66,871,479		66,871,479	0.01980	1,324,055
20	354	60,041		60,041	0.02120	1,273
28	355	62,444,275		62,444,275	0.02120	1,092,775
20	356	43,068,842		43,068,842	0.04430	
30	357	305,800		• •		1,907,950
	358	672,020		305,800	0.00000	1,210
31				672,020	0.00180	
32	359 Tet Trans-	128,935		128,935	0.01350	1,741
33	Tot - Transm	179,903,592	•	179,903,592	0.02448	4,404,022
34	200 4	675 774		ATC 374	0.04000	42.440
35	360.1	675,771		675,771	0.01990	13,448
36	361	3,838,114		3,838,114	0.01600	61,410
37	362	65,184,036		65,184,036	0.01820	1,186,349
38	363	1,194,003		1,194,003	0.03960	47,283
39	364	127,246,725		127,246,725	0.03780	4,809,928
40	365	109,885,078		109,885,078	0.03400	3,736,093
41	366	35,342,524		35,342,524	0.02870	1,014,330
42	367	116,405,213		116,405,213	0.04080	4,749,333
43	368	103,849,360		103,849,380	0.06870	7,134,452
44	369.1	43,108,852		43,108,852	0.03470	1,495,877
45	369.2	31,028,398		31,028,398	0.02850	884,309
46	370	20,886,428		20,886,428	0.04840	1,010,903
47	Tot - Distr	658,644,521	-	658,644,521	0.03969	26,143,714
48						
49	Tot - T & D	838,548,112	-	838,548,112		30,547,736
50						
51	390	20,590,823		_20,590,823	0.01290	265,622
52	Tot - General	20,590,823	•	20,590,823	0.01290	265,622
53						
54	Sub-Total	1,183,740,604	-	1,183,740,604		38,827,928
55		• • •		•		
56	390.2 (Kanoelehua)	778,563		778,563	0.01540	11,990
57	Tot - LH Impr	778,563		778,563	0.01540	11,990
58		110,000		110,000	0.01040	11,000
59	392.1	7,140,932		7,140,932	0.15120	1,079,709
60	392.2	14,733,571		14,733,571		
61	Tot - Vehicles	21,874,503		21,874,503	0.02720	400,753
62	I OL - VEHICLES	21,074,003	•	21,014,003	0.00766	1,480,462
63						
63 64	Utility Total Depreciation	\$ 1,208,393,669	\$ -	\$ 1,206,393,669	0.03342	< AD 330 380
04	Guny rous seprement	4 1,200,030,009	• · ·	\$ 1,206,393,669	0.03542	\$ 40,320,380

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

Line No.	NARUC Account	Recorded Depreciable/Amort, Balance (Footnote 2) (b)	Adjustments (c)	Dej	Adjusted preciable/Amort. Balance	PUC Approved Accrual Rate in Dkt No. 2009-0321	An	inual Accrual
	(a)	(0)	(0)		(d)	(e)		(1)
65								
66								
67	Amortization Amounts							
68	240	0.045.202			0.045.000	0.05000	•	400 700
69 70	316 Tot - Steam	2,015,383		\$	2,015,383	0.05000		100,769
71	ioi - Steam	2,010,000	-		2,015,505	0.00000		100,109
72	335	137,873			137,873	0.05000		6,894
73	Tot - Hydro	137,873			137,873	0.05000	-	6,894
74								·
75	346	3,105,436			3,105,436	0.05000		155,272
76	Tot - Other Prod	3,105,436	-	•	3,105,436	0.05000		155,272
77	Tel Deed	5 050 000			5 350 000	0.05000		000 005
78 79	Tot - Prod	5,258,692	•		5,258,692	0.05000		262,935
80	391.1	2,509,182			2,509,182	0.20000		501,836
81	391.2	304,558			304,558	0.10000		30,456
82	391.3	869,779			869,779	0.06670		58,014
83	393	831,088			831,088	0,04000		33,244
84	394	10,962,413			10,962,413	0.04000		438,497
85	395	367,483			367,483	0.06670		24,511
86 87	396 397	667 23,012,295			667 23,012,295	0.05560 0.06670		37 1,534,920
88	398	4,651,534			4,651,534	0.06670		310,257
89		\$ 43,509,000	\$ -	\$	43,509,000	0.06738	\$	2,931,772
90		, ,		-			•	
91								
92 93								
94								
95	Utility Total Amortization	\$ 48,767,692	<u> </u>	\$	48,767,692	0.06551	\$	3,194,707
	•							
96								
97	TOTAL RAM DEPRECIATION / AMORTIZA	TION				Line 64 + Line 95	\$	43,515,086
98	LESS: Vehicle Depreciation (A/C 392 above))				Line 61	\$	(1,480,482)
99	LESS: Depreciation & Amortization in Curren	t Revenues				Footnote 1	\$	(33,208,900)
100								
101	RAM Adjustment for Depreciation & Amortiza	ation					\$	8,825,724
102	RAM Adjustment for CIAC Amortization	<i></i>				Schedule G, line 15	5	(1,101,514)
103	RAM Adjustment for CIS Deferred Cost Amo				HELCO	D-WP-D1-001, page 1	<u>\$</u>	213,463
104 105	Total RAM Adjustment for Depreciation & An	ION 122000				Cohodula C Line E	\$	7,937,673
105	Times: Factor for Revenue Taxes					Schedule C Line 5		1.0975
107	RAM DEPRECIATION & AMORTIZATION					Line 104 x Line 105	<u>.</u>	8,711,708
								To Sch A1
Footnot	es:							
				-				
1	Depreciation & Amortization in Current Reve	nues (II),		Dep	r/Amort Expense			

1	Depreciation & Amortization in Current Revenues (ii);	Dep	r/Amort Expense
	Total Depreciation	\$	34,376,700
	LESS: Vehicle Depreciation (A/C 392)		(1,167,800)
	Net Depreciation in Current Revenues	\$	33,208,900
	(ii) HELCO Revised Schedules Resulting from Decision and Order		
	No. 30168, HELCO T-13, Attachment 1, page 1, Response to Final		
	D&O, filed 2/21/12, Docket No. 2009-0164.		
2	Utility Total Depreciable Plant Balance - Line 64	\$	1,208,393,669
	Utility Total Amortizable Plant Balance - Line 95		48,767,692
	Total Utility Depreciation and Amortization Plant Balance	\$	1,255,161,361
	Total Utility Plant in Service Balance (iii)	S	1,260,610,646
	less: Land Balance (iv)		(5,426,223)
	less: ARO Asset Balance (A/C 10100001)		(23,062)
	Total	\$	1,255,161,361

(iii) December 2016 Monthly Financial Report PUC, page 8 (iv) Accounting Records

SCHEDULE F PAGE 1 OF 1

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

Line No.	NARUC Account	Reference	Projected ADIT Change
	(a)	(b)	(c)
1	State Tax Depreciation	Schedule F1	1,700,756
2	Effective Federal Tax Rate	HELCO-WP-F-001	32.8947%
3	Federal Deferred Tax on State Tax Depreciation		559,459
4 5 6	Addback State Tax Depreciation Federal Tax Depreciation Federal/State Difference	Schedule F1	(1,700,756) 20,629,068 18,928,311
7	Tax Rate on Federal Only Adjustment	HELCO-WP-F-001	35%
8	Federal Deferred Tax Adjustment		6,624,909
9	Total Federal Deferred Taxes		7,184,368
	STATE DEFERRED TAXES		
10	State Tax Depreciation		1,700,756
11	Effective State Tax Rate	HELCO-WP-F-001	6.0150%
12	Total State Deferred Taxes		102,301
13	TOTAL FED AND STATE DEFERRED TAXES		7,286,669
NOTE: In	accordance with the tariff, the change in ADIT in the I	RAM year is based on the	To Sch D1

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.

HAWAII ELECTRIC LIGHT COMPANY. INC DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TAX DEPRECIATION

				YELCO-WP-F1-002	Γ			
ine No.		, 1971 11	PROJECTS	PROGRAMS	TOTAL	PROJECTS	PROGRAMS	TOTAL
		(e)	(q)	(c)	(p)	(e)	e	(đ
-	Information Systems/Data Handling	ŝ	417,209		417,209	0.84%		0.84%
2	Communication	2	5 1.948.549	, ,	1,949,549	3.83%		3.83%
. c)	Office Furniture	*	562,218		562,218	1.13%		1.13%
*	Distribution	30	34,904,449		34, 904, 449	70.45%	•	70.45%
ŝ	Land	•	146 187		146,187	0.30%	•	0:30%
60	Other Production	15	2,544,933		2,544,933	5.14%	•	5, 14%
1	Steam & Hydrautic Production	8	69,337		99,337	0.20%	•	0,20%
80	Structural	ŝ	2,312,848		2,312,848	4.67%	•	4.67%
æ	Transmission	5	4,154,685		4, 154, 685	8.39%		8.39%
5	Transmission	ଷ	276,198		278,168	0.56%	•	0.56%
=	Vehicles	•	2,177,529	•	2,177,520	4.40%	•	4.40%
12	Baseline Plant Additions	•	\$ 49,545,123	5	49,545,123	100%		100%

•

Projects and F

5 vr	0.84%	,	0.04%					
7 אר	1,13%		1.13%					
15 vr	13.52%	•	13.52%					
20 vr	75.14%	•	75,14%					
39 vr	4.87%		4.67%					
Lend	0.30%	•	0.30%		feo	FED	STATE	
Vehicles	4.40%	•	40%		YR 1	YR1	YR1	
Total	100.00%		100.00%	BASIS	DEPR RATE	TAX DEPR	DEPR RATE	-

STATE YR 1 TAX DEPR

100.00
100,00%
511
place to 50% bon
Besis sub
Note 1

sund area to contact as the second	100'001	4 M M	6.00.D							
5 yr			0.84%	5 yr	356.	667	30.00.05	213,840	20.00%	71,213
7 17		•	1.13%	7 47	479,	828	17,145%	274,197	14.28%	68,597
15 yr		•	13,52%	15 yr	5717	802	52.500%	3.001,846	5.00%	285,890
20 yr	75.14%		75.14%	20 yr	31,773,618	818 (51.875%	16,482,565	3.75%	1.191,511
39 yr		n'a	ŝ							
Land	-	0 /0	е⁄о							
Vehicles	d'h	a∕u	٩۶ م							
Total	50.64%	0.00%	90.64%							
				Viriage 2017 - Regular D	tegular Depreciatio	5				
a to regular depreciation	(Total less amount	ts subject to 50 ⁴	K bonus)							
5 47	0.00%		0.00%	5 yr	s		20.00% \$	•	20.00% \$	1

23,233 14.29% 5.00% 3.75% 1.18% 14.29% 5.00% 3.75% 1.18% . . 1.973.905 7 7 20 yr 30 yr 0.00% 0.00% 1.87% 1.87% 1.87% 95.31% 52 0.00% 0.00% 4.67% 4.67% 4.67% 95.31% TOTAL ASSETS 7 yr 15 yr 20 yr 19 yr Lenod Vehicles Todal

\$ 19,895,481 5 40,301,219 Net Depreciable Baseline Plant Adds

60.342 5 1.700.756 St. Yaz Deproclation To Schodulo F Reconditation from Baseline Plant Adds to Net Depreciable Plant Adds 8 49,545,123 Schedule D2 Loss: Repaire Captial Projects Plant Adds Loss: Repaire addrection MELCO-WP-F1-001, pg. 1 7,260,740 <<supported by Special Study each year. Net plant odd basis Loss: Land and Vehicles (4,70% × \$42,284,383) 1,683,150 (coss: Land and Vehicles (4,70% × \$42,284,383) 1,683,150 (coss: Land and Vehicles (4,70% × \$42,284,383) 5,40,301,219 (coss: Land and Vehicles (4,70% × \$42,284,383) 5,40,301,219 (cost) 633.587 5 20.629.068 Fod Tax Doprociatio To Schedula F 1,206,833 \$ 41,508,052

5 1,640,414

Major Capital Projects from Schedute F2 Total Depreciable Plant Adds

NOTE (1) The Protecting Americans from Tax Hitkes (PATH) Act of 2015 extended borus deprediation for property acquired and placed in service from 2015 through 2019. The borus depreciation percentage is 50 percent for property placed in service during 2017.

SCHEDULE FI PAGE I OF I

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HAWAII ELECTRIC LIGHT 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 2017 Major Capital Projects - Plant	Items				\$ 1,206,833	
2	Assumed Value of 2017 Major Capital Projects - CIAC	nontaxable				5 -	
3	Assumed Value of 2017 Major Capital Projects - Total					\$ 1,206,833	Schedule D3
4	Tax Classification of Major Capital Project Additions	Tax Ba	sis Distribution	FED YR 1 DEPR RATE	FED YR 1 TAX DEPR	STATE YR 1 DEPR RATE	STATE YR 1 TAX DEPR
5	5 yr	\$	_	60.000%	e	20.00%	e
6	7 yr	9	-	57.145%		14.29%	•
7	15 yr - Transmission		1,206,833	52,500%		5.00%	60,342
8	20 yr		1,200,000	51.875%		3,75%	00,042
9	39 yr		r/a	01.01070		3.1376	-
10	Land		n/a				
11	Vehicles		n/a				
12	Total	\$	1,206,833		\$ 633,587		\$ 60,342
		ė—	To Sch F1		To Sch F1		To Sch F1
			10 Duit 1		10 0017 1		TO OUT F

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HAWAII ELECTRIC LIGHT COMPANY, INC. DECOUPLING CALCULATION WORKBOOK CIAC SUMMARY

Line No.	Description	Reference	ι	Jnamortized CIAC	A	CIAC nortization
	(a)	(b)		(c)		(d)
1	12/31/16 Beginning Balance	Schedule G1	\$	(97,210,550)		
2						
3	2017 CIAC Additions:					
4	Baseline 5-Yr Average	Schedule G1	\$	(7,034,215)		
5	Major Projects	Schedule G2		-		
6	Net Additions		\$	(7,034,215)		
7						
8	2017 CIAC Amortization:					
9	Estimated Amortization	Schedule G3	\$	3,357,714	\$	(3,357,714)
10						
11	12/31/17 Ending Balance		\$	(100,887,050)		(3,357,714)
12			То	Sch D1 Line 15		
13	LESS: CIAC Amortization in Current Revenues	NOTE 1				(2,256,200)
14 15	RAM Adjustment for CIAC Amortization				•	(4 4 04 54 4)
15						(1,101,514)
					10 50	E, p. 2, Line 102

NOTE 1: See HELCO Revised Schedules Resulting from Decision and Order No. 30168, filed 2/21/2012, Exhibit 1A, page 34 of 37, Docket No. 2009-0164.

HAWAII ELECTRIC LIGHT 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;

					2/19/2013		2/21/2014	 2/26/2015		2/23/2016		2/23/2017
Une No.	Description				2012		2013	2014		2015		2016
	(a)			_	(b)		(C)	 (d)	_	(e)		(1)
1 2 3	CIAC Balance, January 1 (Dec Rpt. pg. 10) Less: CIAC Amortization (Dec Rpt. pg. 2) Less: CIAC Balance, December 31 (Dec Rpt. p	g. 10)		\$	(76,641,653) 2,506,398 84,799,042	\$	(84,799,042) 2,766,490 89,762,888	\$ (89,762,888) 2,955,035 94,474,624	\$	(94,474,624) 3,142,029 95,297,753	s	(95,297,753) 3.232,226 <u>97.210,550</u>
4						_			_			
5	Total CIAC Additions			\$	10,663,787	\$	7,730,336	\$ 7,886,771	\$	3,965,158	\$	5,145,023
6	A sea Main- Oralisat-s	Old No.	No •/-									
7	Less Major Projects;	<u>Dkt No.</u>	<u>Item No.</u>									
8 9	2012 In-service;											
9 10	None											
11												
12	2013 In-service:											
13	None											
14												
15	2014 In-Service:											
16	Keamuku-Keahole 6800 69 KV Line Phase 1	2012-0392	H0002509									
17	Keahole CT-4 Major Overhaul	2013-0144	H0002725									
18												
19	2015 In-service:											
20	None											
21 22	2016 In-service;											
22	Keamuku-Keahole 6800 69 kV Line Phase 2	2012-0392	H0002612									
24	Keamuku-Keahole 6800 69 kV Line Phase 3		H0002668									
25	Keahole CT-5 Major Overhaul	2013-0144	H0002724									
26	-											
27												
28												
29	Total Net CIAC Additions				10,663,787	\$	7,730,336	\$ 7,668,771	-	3,965,158	1	5,145,023
30												
31	Last Five-Year Average											7,034,215 To Sch G
												10.000.0

GENERAL NOTE:

The CIAC amounts of the major projects are from the respective year's GO7 plant addition annual reports. Refer to the Baseline Plant Additions Calculation workpaper for the dates of the report filings. The total CIAC additions reflect actual contributions received in the year, and therefore may not include the total major project CIAC from the GO 7 report to the extent that the CIAC was received in advance, or in multiple payments over a span of more than one year.

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

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Line No.	Description	PUC Docket Reference	Estimated In Service Date	Amount
	(a)	(b)	(c)	(d)
1	2017 Major Capital Project CIAC Additions by Project:			
2	None			s -
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13	Total Major Project CIAC Additions for 2017 RAM			<u>s -</u>

HAWAII ELECTRIC LIGHT COMPANY, INC DECOUPLING CALCULATION WORKBOOK CIAC AMORTIZATION

Line		2015	2016		2017
No.	Description	Balance	Amortization	Balance	Amortization
-	(8)	(b)	(c)	(d)	
1					
2	CIAC by Vintage: 1981	\$ 32,121.46	\$ (4,568.00)	\$ 27,555.48	\$ (4,566.00)
3	1982	42,135.11	(5,244.00)	36,891.11	(5,244.00)
4	1983	35,219.17	(3,898.00)	31,321.17	(3,898.00)
5	1984	248,345.75	(24,547.00)	221,798.75	(24,547.00)
6	1985	158,654,88	(14,378.00)	144,278,88	(14,376.00)
7	1986	262,224.24	(21,787.00)	240,437.24	(21,787.00)
8	1987	602,395.57	(46,211.00)	558,184.57	(46,211.00)
9	1988	326,401.17	(23,255.00)	303,148.17	(23,255.00)
10	1989	611,669.03	(40,681,00)	570,988.03	(40,681.00)
11	1990	1,786,146,18	(111,386.00)	1,674,760.18	(111,386.00)
12	1991	1,216,779.07	(71,425.00)	1,145,354.07	(71,425.00)
13	1992	2,583,622.84	(143,251.00)	2,440,371.84	(143,251.00)
14	1993	900,124,59	(47,286.00)	852,838,59	(47,286.00)
15	1994	1,311,834.01	(65,475.00)	1,246,359.01	(65,475.00)
16	1995	927,017.54	(44,069.00)	882,948.54	(44,069.00)
17	1996	1,402,605.10	(83,852.00)	1,338,953.10	(63,652.00)
18	1997	883,398.60	(38,349.00)	845,049.60	(38,349.00)
19	1998	450,144.08	(18,728.00)	431,416.06	(18,728.00)
20	1999	3,483,609.00	(139,148.00)	3,344,463.00	(139,146.00)
21	2000	2,614,822.29	(100,432.00)	2,514,390.29	(100,432.00)
22	2001	2,333,879.43	(86,328.00)	2,247,553.43	(86,326.00)
23	2002	2,295,359.38	(81,873.00)	2,213,486.38	(81,873.00)
24	2003	3,174,465.69	(109,330.00)	3,065,135.69	(109,330.00)
25	2004	1,916,770.91	(63,817.00)	1,852,953,91	(63,817.00)
28	2005	2,534,717.22	(81,671.00)	2,453,048.22	(81,671.00)
27	2006	4,539,553.69	(141,703.00)	4,397,850.69	(141,703.00)
28	2007	4,920,485.95	(148,945.00)	4,771,540.95	(148,945.00)
29	2008	5,225,876.91	(153,541.00)	5,072,335.91	(153,541.00)
30	2009	6,082,890.88	(173,620.00)	5,909,276.88	(173,620.00)
31	2010	5,582,166.11	(154,907.00)	5,427,259,11	(154,907.00)
32	2011	6,279,194.33	(169,708.00)	6,109,486.33	(169,708.00)
33	2012	9,883,511.00	(260,092.00)	9,623,419.00	(260,092.00)
34	2013	7,353,246.00	(188,545.00)	7,164,701.00	(188,545.00)
35	2014	7,479,777.00	(186,994.00)	7,292,783.00	(186,994.00)
38	2015	3,698,062.06	(90,197.00)	3,607,665.06	(90,197.00)
37	2015 - Land	267,096,00	-	267,096.00	-
38 39	2016			5,145,022.87	(125,488.00)
39 40	CIAC GET Adjustment:				
40	-0dj 92-96 GET				
42	-adj 97 GET				
42	-odj 98 GET				
44	-adj 99 GET				
45	-adj 00 GET				
46	-adj 01 GET				
47	-adj 02 GET				
48	-adj 03 GET				
49	-adj 04 GET				
50	-adj 05 GET				
51	-adj 06 GET				
52	-odj 07 GET				
53	-adj08 GET				
54	-adj 09 GET				
55	-adj 10 GET				
56	-adj 11 GET				
57	-adj 12 GET				
58					
59					
60	In - Kind CIAC:				
61	1988	145,149.95	(10,341.00)	134,808.95	(10,341.00)
62	1989	195,472.09	(13,001.00)	182,471.09	(13,001.00)

SCHEDULE G3 PAGE 2 OF 2

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HAWAII ELECTRIC LIGHT COMPANY, INC. DECOUPLING CALCULATION WORKBOOK CIAC AMORTIZATION

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Line			2015	20		2017
No.	Description		talance	Amortization	Balance	Amortization
	(a)		(b)	(c)	(d)	
63	1990		502,679.64	(37,584.00)	565,095.64	(37,584.00
64	1991		554,108,50	(32,527.00)	521,581.50	(32,527.00
65	1992	· · · ·	358,014,26	(19,740.00)	338,274,26	(19,740.00
68	1993					
67	1994					
88	1995					
69	1996					
70	1997					
71	1998					
72	1999					
73	2000					
74	2001					
75	2002					
76	2003					
77	2004					
78	2005					
79	2006					
80	2007					
81	2008					
82	2009					
83	2010					
84	2011					
85	2012					
86	2013					
67	2014					
88	2015					
89	مرد المحمدة المرازي <u>رس ومن يحمد م</u> رد الم	·				
90	Total CIAC Amortization for 2017 RAM	5	95,297,753	\$ (3,232,226)	\$ 97,210,550	\$ (3,357,714

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HAWAII ELECTRIC LIGHT COMPANY. INC. DECOUPLING CALCULATION WORKBOOK EARNINGS SHARING CALCULATIONS (\$ in Thousands)

Description	Reference			Ör	erating Income		Basis Return on I Rate Base	Rate of Return
(8)	(b)			<u></u>	(C)	-	(d)	(0)
	D 0040 Ma-444 B							
Reported Operating Income before ratemaking adj.	Dec 2016 Monthly PL filed 2/24/17 & HELC			\$	32.087	5	482,254	
Ratemaking Adjustments to Line 1:								
incentive Compensation Expenses (net of tax)	HELCO-WP-H-002				318			
Discretionary and Other Expenses Not Recoverable (net of tax)	HELCO-WP-H-002				215			
Amortization of investment income differential	HELCO-WP-H-003				24			
Income tax on items to be replaced by synchronized interest								
	HELCO-WP-H-005	_				_		
Ratemaking Basis Amounts - Post Tax		Sum	Lines 182	5	28,200	2	482,254	
Ratemaking Capitalization		E	lalances		Ratios		Cost Rate	Weighted Cost
Short-Term Debt (12 mo, Avg)		\$	-		0.00%		0.00%	0.00%
Long-Term Debt (Simple Avg)		\$	202,362		39.63%		5.40%	2.14%
Hybrid Securities (Simple Avg)		\$	9,515		1.86%		7.21%	0.13%
Preferred Stock (Simple Avg)		\$	6,713		1.31%		8.17%	0.11%
Common Equity (Simple Avg)		5	292,003		57.19%		10.00%	5.72%
Total Capitalization	HELCO-WP-H-004	\$	510,593		100.00%			8.10%
Line 3 Rate Base Amount						s	482,254	
Weighted Cost of Debt (Sum Lines 5-7)							2.27%	
Synchronized Interest Expense						5	10,962	
Income Tax Factor (Note 1) Synchronized Interest Expense, net of tax						\$	1.636929121 6,697	
Post Tax Income Available for Preferred & Common (Line 3 - Lin	ne 13a)							\$ 21,504
Less: Preferred Income Requirement (Line 8 Weighted Cost time	es Rate Base)							\$ 518
Income Available for Common Stock								\$ 20,985
Ratemaking Equity Investment (Line 9 Ratio times Rate Base)								\$ 275,796
Return on Equity for Decoupling Earnings Sharing (Lina 16/Line	17)							7.61%
Earnings Sharing Revenue Credits;		86	isis Points					
Achieved ROE (basis points)			761					
Authorized Return (basis points) (D&O 30168 in Dkt No. 2009-0	164, filed on 2/8/2012)		1,000					
Sharing Grid per RAM Provision		Fi	rst 100 bp		Next 200 bp	A	ll over 300 bp	Retepayer Tota
			0		٥		0	
Distribution of Excess ROE (basis points)								
Distribution of Excess ROE (basis points) Ratepayer Share of Excess Earnings			25%	_	50%	_	90%	
			25%		50%		- 90%	-
Ratepayer Share of Excess Earnings			25%		<u>50%</u>		- 90%	- \$ 50
	Incentive Compensation Expenses (net of tax) Discretionary and Other Expenses Not Recoverable (net of tax) Amortization of investment income differential Income tax on items to be replaced by synchronized interest Remove Accrued Earnings Sharing Refund Ratemaking Basis Amounts - Post Tax Ratemaking Capitalization Short-Term Debt (12 mo. Avg) Long-Term Debt (12 mo. Avg) Long-Term Debt (12 mo. Avg) Common Equity (Simple Avg) Total Capitalization Line 3 Rate Base Amount Weighted Cost of Debt (Sum Lines 5-7) Synchronized Interest Expense Income Tax Factor (Note 1) Synchronized Interest Expense, net of tax Post Tax Income Available for Preferred & Common (Line 3 - Lin Less: Preferred Income Requirement (Line 8 Weighted Cost time Income Available for Common Stock Ratemaking Equity Investment (Line 9 Ratio times Rate Base) Return on Equity for Decoupting Earnings Sharing (Line 16/Line Earnings Sharing Revenue Credits; Achieved ROE (basis points)	Incentive Compensation Expenses (net of tax) HELCO-WP-H-002 Discretionary and Other Expenses Not Recoverable (net of tax) HELCO-WP-H-003 Amortization of investment income differential HELCO-WP-H-003 Remove Accrued Earnings Sharing Refund HELCO-WP-H-003 Remove Accrued Earnings Sharing Refund HELCO-WP-H-003 Ratemaking Basis Amounts - Post Tax Ratemaking Capitalization. Short-Term Debt (12 mo. Avg) Long-Term Debt (21 mo. Avg) Long-Term Debt (Simple Avg) Preferred Stock (Simple Avg) Preferred Stock (Simple Avg) Total Capitalization HELCO-WP-H-004 Line 3 Rate Base Amount Weighted Cost of Debt (Sum Lines 5-7) Synchronized Interest Expense Income Tax Factor (Note 1) Synchronized Interest Expense, net of tax Post Tax Income Available for Preferred & Common (Line 3 - Line 13a) Less: Preferred Income Requirement (Line 8 Weighted Cost times Rate Base) Income Available for Common Stock Ratemaking Equity Investment (Line 9 Ratio times Rate Base) Return on Equity for Decoupting Earnings Sharing (Line 16/Line 17) Earnings Sharing Revenue Credits; Achieved ROE (basis points) Authorized Return (basis points) (D&O 30168 in Dkt No. 2009-0164, filed on 2/8/2012)	Incentive Compensation Expenses Not Recoverable (net of tax) HELCO-WP-H-002 Discretionary and Other Expenses Not Recoverable (net of tax) HELCO-WP-H-002 Amortization of investment income differential HELCO-WP-H-003 Income tax on items to be replaced by synchronized interest HELCO-WP-H-003 Remove Accured Earnings Sharing Refund HELCO-WP-H-003 Ratemaking Basis Amounts - Post Tax Sum: Ratemaking Capitalization E Short-Term Debt (12 mo, Avg) \$ Long-Term Debt (Simple Avg) \$ Preferred Stock (Simple Avg) \$ Common Equity (Simple Avg) \$ Total Capitalization HELCO-WP-H-004 Line 3 Rate Base Amount Weighted Cost of Debt (Sum Lines 5-7) Synchronized Interest Expense Income Tax Fector (Note 1) Synchronized Interest Expense, net of tax Post Tax Income Available for Preferred & Common (Line 3 - Line 13a) Less: Preferred Income Requirement (Line 8 Weighted Cost times Rate Base) Income Available for Common Stock Ratemaking Equity Investment (Line 9 Ratio times Rate Base) Return on Equity for Decoupting Earnings Shering (Line 16/Line 17) Earnings Sharing Revenue Credits: Be Achieved ROE (basis points) (DAO 30168 in Dkt	Incentive Compensation Expenses Not Recoverable (net of tax) HELCO-WP-H402 Discretionary and Other Expenses Not Recoverable (net of tax) HELCO-WP-H402 Amortization of investment income differential HELCO-WP-H403 Income tax on items to be replaced by synchronized interest HELCO-WP-H403 Remove Accrued Earnings Sharing Retund HELCO-WP-H403 Ratemaking Basis Amounts - Post Tax Sum Lines 1 & 2 Ratemaking Capitelization Balances Short-Term Debt (12 mo. Avg) \$ - Long-Term Debt (Simple Avg) \$ 0,513 Preferred Stock (Simple Avg) \$ 0,513 Common Equity (Simple Avg) \$ 202,362 Total Capitalization HELCO-WP-H-004 \$ 510,593 Line 3 Rate Base Amount \$ 292,003 \$ 0,513 Line 3 Rate Base Amount Weighted Cost of Debt (Sum Lines 5-7) \$ ynchronized Interest Expense Nynchronized Interest Expense, net of tax Posi Tax Income Available for Preferred & Common (Line 3 - Line 13e) Lass: Preferred Income Requirement (Line 6 Weighted Cost times Rate Base) Income Available for Common Stock Ratemaking Equity Investment (Line 9 Ratio times Rate Base) Return on Equity for Decoupling Earnings Shering (Line 16/Line 17) Earnings Shering Revenue Credits; Besis Point	Incentive Compensation Expenses (net of tax) HELCO-WP-H-002 Discretionary and Other Expenses Not Recoverable (net of tax) HELCO-WP-H-002 Amortization of investment income differential HELCO-WP-H-003 HELCO-WP-H-003 Remove Accrued Earnings Sharing Refund HELCO-WP-H-005 Ratemaking Basis Amounts - Post Tax Sum Lines 1 & 2 \$ Retemaking Capitalization Balances Short-Term Debt (12 mo, Avg) \$ - Long-Term Debt (12 mo, Avg) \$ 202,362 Hybrid Securities (Simple Avg) \$ 2,515 Preferred Stock (Simple Avg) \$ 0,515 Preferred Stock (Simple Avg) \$ 0,515 Preferred Stock (Simple Avg) \$ 222,003 Total Capitalization HELCO-WP-H-004 \$ 510,593 Line 3 Rate Base Amount Weighted Cost of Debt (Sum Lines 5-7) Synchronized Interest Expense Income Available for Preferred & Common (Line 3 - Line 13a) Less: Preferred Income Requirement (Line 6 Weighted Cost times Rate Base) Income Available for Common Stock Ratemaking Equity Investment (Line 9 Ratio times Rate Base) Return on Equity for Decoupting Earnings Shering (Lina 16/Line 17) Earnings Sharing Revenue Credits; Besis points Achieved ROE (basis points) (D8O 30168 in Dkt No. 2009-0164, filed on 2/8/2012) <u>761</u> 1,000	incentive Compensation Expenses (net of tax) HELCO-WP-H-002 318 Discretionary and Other Expenses Not Recoverable (net of tax) HELCO-WP-H-002 215 Amortization of investment income differential HELCO-WP-H-003 24 Income tax on items to be replaced by synchronized interest HELCO-WP-H-003 (4.443) Renewe Accured Earnings Sharing Refund HELCO-WP-H-003 (4.443) Ratemaking Basis Amounts - Post Tex Sum Lines 1 & 2 \$ 28,200 Ratemaking Capitalization. Balances Ratios Short-Term Debt (12 mo, Avg) 5 - 0.00% Hybrid Securities (Simple Avg) \$ 202,362 39,63% Hybrid Securities (Simple Avg) \$ 20,515 1.86% Hybrid Securities (Simple Avg) \$ 9,515 1.86% Hybrid Securities (Simple Avg) \$ 29,515 1.86% Hybrid Securities (Simple Avg) \$ 292,003 57,19% Total Capitalization HELCO-WP-H-004 \$ 510,593 100.00% Line 3 Rate Base Amount Weighted Cost of Debt (Sum Lines 5-7) Synchronized Interest Expense Income Tax Factor (Not 1) Synchronized Interest Expense, net of tax Post Tax Income Available for Preferred & Common (Line 3 - Line 13a) Lass: Preferred Income Requirement (Line 8 Weighted Cost times Rate Base) Income Available for Common Stock Ratemaking Equity Investment (Line 9 Ratio times Rate Base) Return on Equity for Decoupting Earnings Shering (Line 16/Line 17) Earnings Sharting Revenue Credits; Besis Points Achieved ROE (basis points) (080 30168 in Dkt No. 2009-0164, filed on 2/8/2012) <u>761</u> 1.000	Incentive Compensation Expenses (net of tax) HELCO-WP-H-002 318 Discretionary and Other Expenses Not Recoverable (net of tax) HELCO-WP-H-003 24 Income tax on items to be replaced by synchronized interest HELCO-WP-H-003 (4.443) 74 Retermaking Basis Amounts - Post Tex Sum Lines 1 & 2 \$ 28,200 \$ Retermaking Capitalization Balances Ratios Short-Term Debt (12 mo. Avg) 5 - 0.00% Long-Term Debt (Simple Avg) \$ 202,362 39,63% Hybrid Securities (Simple Avg) \$ 202,362 39,63% Hybrid Securities (Simple Avg) \$ 2,515 1.86% Preferred Stock (Simple Avg) \$ 2,915 1.86% Preferred Stock (Simple Avg) \$ 2,92,003 57,19% Total Capitalization HELCO-WP-H-04 \$ 510,593 100.00% Line 3 Rate Base Amount \$ \$ Synchronized Interest Expense Income Tex Factor (Note 1) Synchronized Interest Expense, net of tax Post Tax Income Requirement (Line 8 Weighted Cost times Rate Base) Income Available for Common Stock Ratemaking Equity Investment (Line 9 Ratio times Rate Base) Return on Equity for Decoupting Earnings Shering (Line 16/Line 17) Earnings Sharing Revenue Credits; Besis Points Achieved ROE (basis points) (0&0 30168 in Dkt No. 2009-0164, filed on 2/8/2012) <u>761</u> Lines	Incentive Compensation Expenses (net of tax) HELCO-WP-H002 318 Discretionary and Other Expenses Not Recoverable (net of tax) HELCO-WP-H002 215 Amoritzation of investment income differential HELCO-WP-H003 24 Income tax on lines to be repleced by synchronized interest HELCO-WP-H003 (4.443) Remove Accrued Earnings Sharing Refund HELCO-WP-H003 0 Ratemaking Basis Amounts - Post Tax Sum Lines 1 & 2 \$ 28,200 \$ 482,254 Retermaking Capitalization Status \$ 202,362 39,63% 5.40% Hybrid Securities (Simple Avg) \$ - 0.00% 0.00% Long-Term Debt (Simple Avg) \$ 202,362 39,63% 5.40% Hybrid Securities (Simple Avg) \$ 9,515 1,86% 7.21% Prefered Stock (Simple Avg) \$ 9,515 1,86% 7.21% Prefered Stock (Simple Avg) \$ 222,003

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

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

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

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

Line No.	Description	Reference	Amount \$000
	(a)	(b)	(c)
1	2015 Target Revenues subject to escalation	5/19/16 Decoupling, Sch J	158,192
2	2016 RAM Cap Increase excluding Exceptional & Other Matters	5/19/16 Decoupling, Sch J	2,373
3	2016 Target Revenues subject to escalation		160,565
4	2017 GDP Price Index	Sch C	2.0%
5	2017 RAM Cap Increase excluding Exceptional & other Matters	Line 3 x Line 4	3,211
6	RAM Cap for 2016 RAM Revenue Adjustment	5/19/16 Decoupling, Sch J	9,038
7	RAM Cap for 2017 RAM Revenue Adjustment	Line 5 + Line 6	12,249 Sch A1

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SCHEDULE K PAGE 1 OF 1

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

Line No.	Description	Reference	Amount \$000
	(a)	(b)	(c)
1	CIS Deferred Cost	Schedule K1	372.1
2	2017 Revenue Adjustment for Exceptional & Other Matters		\$ 372.1 To Sch A1

Note 1 Exceptional and Other Matters:

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

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

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

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HAWAII ELECTRIC LIGHT COMPANY, INC DECOUPLING CALCULATION WORKBOOK EXCEPTIONAL & OTHER MATTERS - CIS \$ in thousands

				HELCO 2010 T	'est Ye	ar Rate Base][HELCO 2	17 RAM Rate Bas	e (Note 1)
Line No.	Description	Reference		Beg. Balance 12/31/2009	Bu	idgeted Balance 12/31/2010		Recorded at 12/31/2018	RAM Projected Amounts	Estimated at 12/31/2017
	(a)	(b)		(c)		(d)		(e)	(1)	(g)
1	CIS Def Cost	HELCO-WP-D1-001	\$	-	\$	•		1,797	(214)	1,583
2	CIS ADIT			-		•				
3	28532 - CIS Project	Note 2						(676)	80	(596)
4	28612 - CIS interest	Note 3						(16)	2	(14)
5	Adjustment	HELCO-WP-D4-002						9	(1)	8
6	Total	Sum Line 1 - Line 5	S	-	S	•	5	1,114	5 (133)	\$ 981
7	2017 Average Balance					-				\$ 1.047.7
8	Change in Rate Base]	\$ 1,047.7
9	Pretax Rate of Return	Schedule D								11.94%
10	Pretax Return Requirement	Line 8 x Line 9							-	\$ 125,1
11	Revenue Requirement \$000	Line 10 x Line 14								\$ 137.3
12	CIS Amortization	HELCO WP-D1-001								s 214.0
13	Revenue Requirement \$000	Line 12 x Line 14								\$ 234.8
14	Revenue Tax Factor (1/(1-8,885%))	Schedule D								1.0975
15	Revenue Requirement (Return on/of	Line 11 + Line 13							-	
10	Investment)									\$ 372.1
	······································									To Sch K

Note 1 See Order No. 32735, paragraph 107, Page 94 - 95, filed March 31, 2015, in which the commission noted that the basis used in determining the RAM Cap shall be adjusted to exclude or otherwise appropriately account for adjustments for the recovery of revenues for previously explicitly stipulated and approved exceptional matters or other matters specifically ordered by the commission, which shall, in any event, be recovered fully without respect to any limitations resulting from application of the RAM Cap. Accordingly, adjustments for CT-1 costs (for Hawaiian Electric) and CIS costs (for all of the Hawaiian Electric Companies) as provided in a stipulated agreement approved by the Commission as amended in Order No. 31126 in Docket No. 2008-0083 are being treated as Exceptional & Other Matters not subject to the RAM Cap.

Note 2 #28532 - CIS Project costs

		Reference	Federal	State	Total
	Balance at 12/31/16 As Adjusted	5/19/2016 Decoupling, Sch K1	(571,434)	(104,491)	(675,924)
	2017 Book Amortization	HELCO-WP-K1-001	206,413	206,413	
	2017 Tax Amortization	HELCO-WP-K1-001	•	-	
	Total 2017 Activity		206,413	206,413	
	State Tax Deduction		12,416	-	
			193,997		
	Tax Rate	Schedule F	35.00%	6.02%	
	2017 Deferred Taxes		67,699	12,418	80,315
	Balance at 12/31/17	-	(503,535)	(92.075)	(595,609)
Note 3	#28612 - CIS Interest				
		Reference	Federal	State	Totai
	Balance at 12/31/16	5/19/2018 Decoupling, Sch K1	(13,621)	(2,491)	(16,112)
	Amortization	HELCO-WP-K1-002	4,920	4,920	
	Tax Rate	Schedule F	32.89%	6.02%	
	2017 Deferred Taxes		1,618	296	1,914
	Balance at 12/31/17	_	(12.003)	(2,195)	(14,198)

Hawaii Electric Light Company, Inc. Sales Forecast for June 2017 to May 2018 in GWh

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	Total	369.496	408.361	257.434	2.912	1038.203
	May	29.345	34.845	21.651	0.263	86.104
	Apr	29.672	33.025	20.589	0.235	83.521
2018	Mar	31.792	33.494	21.514	0.246	87.046
	<u>Feb</u>	27.831	31.263	19.437	0.234	78.765
					0.247	
	Dec	33.534	33.452	21.286	0.247	88.520
	Nov	30.888	33.862	21.879	0.247	86.876
	loct O	30.750	36.240	22.320	0.240	89.550
2017	ŀ				0.242	_
					0.237	
	<u>Jul</u>	31.918	35.450	22.362	0.249	89.980
	un	29.044	33.432	21.274	0.224	83.975
L	I	£	C/D	٩	ш	Totat

Source: Hawaii Electric Light Company, Inc. November 2016 Sales Forecast

HELCO-WP-A-001 PAGE 1 OF 1

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Hawaii Electric Light Company, Inc. Energy Delivery Methodology Comparison

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				А	8	C = A - B
	Account			Current		
Line	Group	Ind		Method	Old Method	Difference
1	G30	NE	Non-billable O&M expense other than supervision	3,189,153	3,411,601	(222,448)
2		NS	Non-billable O&M expense supervision	14,003	2,343	11,660
3	G40	NN	Non-Regulated Expense		3	(3)
4	G50	NI	Non-billable Install (Capital)	6,253,294	5,377,424	875,870
5		NR	Non-billable Removal	803,151	1,383,976	(580,825)
6	G60 6	BE,BI,BR	Billable O&M expense, install, removal	28,173	49,969	(21,796)
7	G70	BE	Billable O&M expense	48,170	85,018	(36,848)
8		BT	Billable Temporary Facilities	27,645	53,254	(25,610)
9	G80	NC	Non-billable Clearing	-	•	-
10		NP	Non-billable Preliminary Engineering	-	-	-
11			Totals	10,363,589	10,363,589	(0)

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Note 1: The total 2016 O&M impact of the change in on-cost clearing allocation amount is calculated as follows:

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O&M expense items	Line 1 + Line 2	(210,789)
Revenue Tax Factor	Schedule C	1.0975
		(231,340)
		To Sch A1

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HELCO-WP-A1-002 PAGE 1 OF 2

HAWAII ELECTRIC LIGHT COMPANY, INC. DECOUPLING CALCULATION WORKBOOK DETERMINATION OF TOTAL RAM REVENUE ADJUSTMENT ALLOWED CORRECTION OF 2016 DECOUPLING FILING

				201	6 Decoupting Filting	ŋ	
Line No.	Description	Reference		Amount		<u> </u>	
	(a)						
	RAM REVENUE ADJUSTMENT DETERMINED ACCORDING 1	O EXISTING TARIFFS AND PR		DURES 🗍	. No	ote 4	
				As Filed	As Corrected	÷.,	Difference
1	O&M RAM	Schedule C	\$	4,760,013	4,760,013	\$	-
2	Rate Base RAM - Return on Investment	Schedule D	\$	(2,918,499)	(2,918,499) \$	•
3	Depreciation & Amortization RAM Expense	Schedule E	\$	7,276,329	7,276,329	\$	-
4	Total RAM Revenue Adjustment		\$	9,117,843	9,117,843	\$	
5	Less: Adjustment for Change in On-cost Clearing Allocation	Note 3	\$	(211,331)	6 (217,195) \$	(5,864)
6	Total Adjusted RAM Revenue Adjustment		\$	8,906,512	8,900,648	5	(5,864)
	RAM REVENUE ADJUSTMENT CAP						
7	RAM Cap for 2016 RAM Revenue Adjustment	Schedule J	\$	9,037,880	9,037,880	\$	-
8	Plus: Exceptional and Other Matters	Schedule K	\$	388,914	388,914	s	•
9	2016 Cap - Total RAM Revenue Adjustment (Note 2)		\$	9,426,794	9,426,794	5	-
10	Total RAM Revenue Adjustment Allowed (Note 1)	Lesser of Line 4 or Line 7	5	8,906,512	8,900,648	15	(5,864)
				To Sch A	To Sch A	<u> </u>	To Sch A1
Note 1	RAM Revenue Adjustment Allowed See Order No. 32735, filed March 31, 2015, paragraph 106, pag "The RAM Revenue Adjustment to be applied to determine effec Revenue Adjustment determined according to existing tariffs and ("RAM Cap) to be calculated as specified."	tive Target Revenues will be the					

Note 2 Total RAM Cap: See Order No. 32735, filed March 31, 2015, paragraph 110, page 96: "The RAM Cap will apply to the entire RAM Revenue Adjustment including the O&M

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

Note 3 Order No. 32866, par. 18 required the Company to adjust its 2015 RAM Revenue Adjustment to reflect the O&M expense reduction impact associated with the change in on-cost clearing allocation identified by the Company. The adjustment made to the 2015 RAM revenue adjustment was based on the 2014 O&M expense impact of the change in on-cost clearing allocation. In calculating the 2016 RAM Cap, prior year's adjustment was incorporated in 2015 target revenues that has been escalated to compute the 2016 RAM Cap (See Schedule J). In calculating the 2016 RAM revenue adjustment has been updated to reflect the 2015 O&M impact of the change in on-cost clearing allocation. See HELCO-WP-A1-001 for the calculation.

Note 4 Adjustments to the 2016 Decoupling filing on-cost cleaning allocation calculation were identified in 2017 and corrected. The 2016 Schedule A1 and HELCO-WP-A1-001 were corrected and included as HELCO-WP-A1-002 for reference. Revisions did impact the 2016 Decoupling filing because the RAM Revenue Adjustment Tariff calculation was utilized in determining the Total RAM Revenue Adjustment Allowed. Therefore, in 2017 the Company will recognize the adjustment as a reduction to the RAM Revenue Allowed.

Hawaii Electric Light Company, Inc. Energy Delivery Methodology Comparison

2016 Decoupling Filling As Filed As Corrected

				٨	8	C = A - B						
						E		Revised			Change	
	Account			Current		8						
Line	Group	pu		Method	Old Method	Difference	Current	뭥	Difference	Current	PIO	Difference
-	G30	¥	Non-billable O&M expense other than supervision	3,415,273	3,625,728	(210.455)	3,392,243	3,607,607	(215,364)	23,030	18, 121	4,909
2		SN	Non-billable Q&M expense supervision	22,651	4,753	17,898	22,044	4,579	17,464	607	174	433
e	G40	NN						e	(C)	•	(3)	9
4	G50	z	Non-billable Install (Capital)	6,313,937	5,406,731	907,207	6,335,684	5,421,574	914,110	(21,747)	(14,843)	(6,904)
ŝ		лR	Non-billable Removal	869, 186	1,440,942	(571,756)	872,180	1,444,898	(572,718)	(2,994)	(3,956)	962 1
Ð	G60	BE	Billable O&M expense	89,375	190,977	(101.603)	88,349	190,970	(102,620)	1,028	7	1,019
7	G70	BT	Billable O&M expense	24,869	50,569	(25,700)	24,201	48,867	(24,665)	668	1,702	(1,034)
80		B E	Billable Temporary Facilities	30,042	45,634	(15,592)	29,236	44.098	(14,862)	806	1,536	(130).
6		Q					1,396	2.737	(1,341)	(1,396)	(2.737)	1,341
₽	G80	Ŋ	Non-billable Clearing	•	•	'				,	ı	ı
1		ЧN	Non-billable Preliminary Engineering	·	ı	·					٠	٩
12			Totals	10,765,333	10,765,333		10,765,333	10,765,333		ť		•
13			O&M expense items (Line 3 + Line 5)			(192,557)		* *	(197,900)			
Note 1:	The total 20	115 O&M	Note 1: The total 2015 O&M impact of the change in on-cost dearing allocation amount is calculated as follows:	calculated as fo	dlows:							

Note 1: The total 2015 O&M impact of the change in on-cost cleaning allocation amount is calcutated as follows:

(197,900)	1.0975	(217,195)	To WP-A1-002, page 1
(192,557)	1.0975	(211.331)	To Sch A1
Line 13	Schedule C		
Energy Defivery (ED) impact	Revenue Tax Factor	Adjustment for Change in On-cost Clearing Allocation	

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HELCO-WP-A1-002 PAGE 2 OF 2

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Hawali Electric Light Company, Inc. Adjustment For Prior Year RBA Accrual Recovery of 12/31/14 RBA Balance

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				2016		
		January	February	March	April	May
Billed RBA Revenues	Note 1	1,214,978	1,190,380	1,182,610	1,232,979	1,183,391
Net Unbilled Revenues	Note 1	16,956	(34,886)	67,095	(14,153)	49,768
Total billed + Unbilled		1,231,934	1,155,494	1,249,705	1,218,826	1,233,159
x % Share for RBA	Note 2	56.9221%	56.9221%	56.9221%	56.9221%	56.9221%
RBA Revenues (Recovery of 12/31/14 RBA balance)		701,243	657,731	711,359	693,781	701,940
		<	sc	hedule B2 —	······	<u>}</u> •
Less: Revenue Taxes	0.08885	(62,305)	(58,439)	(63,204)	(61,642)	(62,367)
RBA Revenues (Recovery of 12/31/14 RBA balance),		638,938	599,292	648,155	632,139	639,573
net of Revenue Taxes		<u> </u>	S	chedule B 🛛 …		>

Differences are due to rounding

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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 8, 2015 - May 31, 2016 is per Transmittal No. 15-04 (Decoupling) - RBA Rate Adjustment (Filed June 3, 2015), Schedule A , Note (1)

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Hawall Electric Light Company, Inc. Adjustment for Prior Year RBA Accrual Recovery of 12/31/15 RBA Balance

							2016					
			June	July	August	_ 5	ieptember	0	ctober	1	November	December
Billed RBA Revenues	Note 1	\$	1,282,533	\$ 1,312,463	\$ 1,326,048	\$	1,352,864 \$		1,316,556	\$	1,288,985	\$ 1,269,726
Net Unbilled Revenues	Note 1		(37,117)	20,526	 47,200		(75,039)		25,118		(57,260)	50,357
Total billed + Unbilled		_	1,245,416	1,332,989	1,373,248		1,277,825	:	1,341,674		1,231,726	1,320,083
x % Share for RBA	Note 2		40.3283%	40.3283%	40.3283%		40.3283%		40.3283%		40.3283%	40.3283%
RBA Revenues (Recovery of 12/31/15 RBA balance)		\$	502,255	\$ 537,572	\$ 553,808	\$	\$15,325 \$		541,074	\$	496,734	\$ 532,367
			¢	 	 	:	Schedule B2 ·····					 \rightarrow
Less: Revenue Taxes	0.08885		(44,625)	(47,763)	(49,206)		(45,787)		(48,074)		(44,135)	(47,301)
RBA Revenues (Recovery of 12/31/15 RBA Balance),		\$	457,630	\$ 489,809	\$ 504,602	\$	469,538 \$		493,000	\$	452,599	\$ 485,066
net of Revenue Taxes			~	 	 		Schedule B —					 >

* Differences are due to rounding

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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, 2016 - May 31, 2017 is per Transmittal No. 16-02 {Decoupling} - RBA Rate Adjustment (filed May 24, 2016), Schedule A , Note {1}

HELCO-WP-8-002 HAWAII ELECTRC LICHT COMPANY, INC. MONTHJY FINANCIAL REPORT June 2016 - Change of Rate Schedule from G to R

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REVENUE BALANCING ACCOUNT - REVENUE TRACKER

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			éd	Pro-Rated													
			AB	Η	<u>Mav-12</u>	<u>111-12</u>	<u>Jul-12</u>	<u>Aug-12</u>	<u>Sep-12</u>	<u>0ct-12</u>	Nov-12	Dec-12	<u>St-net</u>	Fcb-13	<u>Mar-13</u>	<u>Apr-13</u>	May-13
533	רי ה-רי	Monshity Target Revenue Recorded Adjusted Revenue Target vs. Actual Revenue	ස් ස් ශ	8,099,842 \$ 8,170,196 (70,354)	(842 \$11,558,082 \$ (196 11,274,729 (354) 261,353	\$ 11,210,037 \$ 10,458,509 751,528	\$11,758,125 11,223,265 534,660	\$ 12,030,111 512,030,133 513,078	\$ 12,030,111 \$ 11,417,861 11,330,133 10,601,842 699,978 \$ 16,019	\$11,703,653 \$11,241,014 \$11,567,157 11,226,655 10,791,968 11,156,414 476,998 449,048 410,743	11.241.014 \$ 10.791.966 449.043		\$ 11,294,996 \$ 10,301,483 11,163,936 9,931,564 131,060 369,699		\$ 11,376,512 \$ 11,215,922 160,590	\$ 10,858,659 \$ 10,715,586 171,071	\$ 11,390,130 11,005,200 384,930
22	14+13	Reversal of Previous Year Accrual * Net RBA Change	-	\$0 (\$70,369)	Z81,353	751.526	534,660	699,976	816,019	476.998	449,045	410,743	131,060	369,899	160,590	171,071	384,930
		Adustment(a) to Beginning Balance								11.22	(0), (0), (2, 10)		36,368	31,148	5,658		915
95	L6 + L5	Beginning RBA Balance End Balance Before Interest		(205,07)	(70,565) 210,788	211,139 962,667	965,602 1,500,462	1,506,627 2,206,605	2,215,886	3,062,254 3,539,252	3,555,756 4,004,804	4.017.995 4.428,738	4,486,223 4,617,283	4,671,190 5,041,089	5,071,028 5,231,618	5,257,375 5,428,446	5,456,076 5,841,006
33	(L6 + L7) + 2 + [1] L6 × 3,25% + 12	Balance Subject to Interest Interest		(35,195) (176)	70,112	586,903 2.935	1,233,032	1,856,616 9.283	2,623,896	3,300,753	3,780,280 18,901	111,223,367	4,551,753	4,856,140 24,281	5,151,323 25,757	5,342,911 26,715	5,640,541 28,243
L10	_	Ending RBA Balance		(70,565)	211,139	965,602	1,506,627	2,215,688	3,045,026	3,555,756	4,023,705	4,449,855	4,640,042	5,065,370	5,257,375	5,455,161	5,869,249
		Principal Portion 18670301 Inter est Portion 18670302	• • •	(70.389) \$ (176) \$	210,964 S			\$ 2,197,330 \$ 18,558							5 5,094,921 5 5 162,454 5	5,265,992 \$	5,651,837 217,412
		Total revenues charaed in Interrect period adjustment	•	(70,565) 5 36	201,112 36	5 965,602 (\$ 1,506,627 37	\$ 2,215,686 35				5 359,844,4 2 75		5 0/1: 300,4 2	8 6/6/02/6 8 82	5,455,161 5 31 32	5,669,249
		tax rate		91,115%	91.115%	91.115%	91.115%	91,115%	91,115%	91.115%	91.115%	91,115%	91.115%	91,115%	91.15%	91.115%	91.115%
		net ol tax revenue tax adjustmeni	~ ~	3 SE 5 SE	5 F	5 F	7 F	s 32 \$	\$ C C C	5 SC 25	5 CC	3 "	5 EC 5	5 29 5	5 55 5 5 7 5 5 7 5	2 5 5 5 7 5 7 5 7 7 7 7 7 7 7 7 7 7 7 7	••
		Target vs Actual Differenco: Per original categorion Adivisment ler bäina error	e S	8 152,071,8 (35)	11,274,762 \$	110,458,542 (33)	642,022,11 8 (ME)	\$ 11,330,165 (32)	\$10,601,975 (33)	\$ 11,226,690 \$ (35)	10,791,899 \$	11,156,440 5 (34)	11,163,969 5 (53)	211 211,274,762 310,465,42 311,222,266 310,201,875 311,226,680 310,791,989 311,156,440 311,63,669 319,210,851 311,005,200 (451) (451) (451) (451) (451) (451) (451) (451) (451) (451) (451) (451) (451) (451) (451) (451) (451) (451) (451)	111,215,948 \$ (26)	10,715,618 \$ (30)	11,005,200 -
		Revised Revenues	9 1	170,196 \$	11,274,729	10.458,509	592'022'11 5	\$ 11.330,153	\$ 10,601,842	11,226,655	10,791,966 \$	11,156,414	11.163.936	3 8/170,196 \$11,274,729 \$10,468,500 \$11,223,265 \$10,500,342 \$11,226,655 \$10,791,366 \$11,156,414 \$11,163,935 \$9,931,544 \$11,215,922 \$10,715,568 \$11,005,200	\$ 226,912,111	10,715,568 5	11,005,200
		Rovised Adjustment BBA Adjustment Recorded		(70,354) \$ (70,364)	261,353 \$	751,528	5 534,860 514,856	5 699,878 600 046	5 516,019 A14 945	\$ 476,998 \$	449,048 5	410,743 5	2 090,101 1	\$ 369,899 \$ 369,899 \$	160,590 \$	121,071 \$	364,930 104 910
		RBA Adjustment		35 5	33 5	11	7	\$ 32	33	5 92 5	\$ 66	34 5	3 12	\$ 29 \$	* 92	8	

Note [1] In connection with Decision and Order No. 31908 an Schedule A of the Decoupting Investigation, issued on February 7, 2014, the Company received approval on April 29, 2014. Ionn the Internal Revenue Service to change its tar treatment of REA revenues from the book account method forevenue beneficial account (REA) reserver scooption method based on when rates are adjusted and revenues are collected, effective January 1, 2014. Accordingly, starting with May 2014, interest is calculated based on a net-ol-income tar REA balance. Internet for forevenue based in a recordingly calculation. Income Tar Factor (11/14x ratio) 1(35862812)

Note (2) Totals may not add exactly due to rounding.

Note [3] A manual adjustment was made June 2016 to increase the RBA by \$\$35. The customer's home was completed in February 1999: which is reflected on the Hawaii County completed building permit. The Company was notified by Hawaii County, that this customer's permit was complete and closed February 1990. When a permit is dased due to completion the customer is changed to rate Schedule Risstead of rate Schedule G, resulting in lower rates. Based on this, June 2016, the Company was notified by Hawaii County, that this customer's permit was complete and closed February 1990. When a permit is dased due to completion the customer is changed to rate Schedule Risstead of rate Schedule G, resulting in lower rates. Based on this, June 2016, the Company re-calculated the customer's billing from February 1980 and adjusted the RBA accordingly.

HELCO-WP-B-002 PAGE 1 OF 4

HELCO-WP-B-002 HAWMI ELECTRIC LIGHT COMPANY, INC. MONTHLY FENANCIAL REPORT June 2016 - Change of Rate Schedule from G to R

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REVENUE BALANCING ACCOUNT - REVENUE TRACKER

Ţ	12,304,971 11,813,325 491,648 (654,645) (162,999)	7,432,495 7,269,496 4,490,723 121,162 7,281,658	6,723,237 556,421 7,281,658	91.115%	13,325 13,325	491,646 491.645
<u>1u-14</u>	S		***		5 11,8 5 11,8	~ ~
Jun-14	\$ 11,635,604 11,051,290 544,314 (605,966) (21,552)	7,441,752 7,441,752 7,420,200 4,539,563 12,295 7,432,495	6,686,236 546,259 5 7,432,495	91.115W	11,051,290 11,051,290	584,314 584,314
<u>Mav-14</u>	\$ 11,554,261 \$ 11,017,902 536,359 (357,105) 179,254	(45, 763) 7,248,447 7,427,701 4,482,629 12,141 7,439,842	\$ 6,905,878 \$ \$ 533,964 \$ \$ 7,439,842 \$	91.115% 5 - 5	1,017,902 1	516,359 \$ 538,359 \$
Apr-14	\$ 11,043,499 \$ 1 10,877,538 1 166,361 (349,480) (183,119)	(9,446) (9,445,380 7,274,261 7,365,821 19,949 7,294,210	5 6,727,538 5 5 566,674 5 5 7,294,210 5		577,138 \$1 577,138 \$1	166.361 \$ 168.381 \$ - \$
<u>Mar-14 A</u>	\$ 11.540,457 \$ 11. 11.245,605 10. 294,852 (359,085) ((359,088) ((84,236) (5,265 7,510,807 7,446,571 7,446,571 7,478,689 7,20,255 7,468,826 7,468,826 7,	\$ 6,920,101 \$ 6 \$ 546,725 \$ \$ 7,466,826 \$ 7	26 91.115% 23 \$ 2 \$	245,628 \$ 10 (23) 245,605 \$ 10	294,852 \$ 294,829 23 \$
-	,	7,468,139 7,468,139 7,480,818 37,403 37,403 7,	6.979,072 \$ 6. 526,470 \$ 1 7,505,542 \$ 7.	26 91,115% 3 \$	9,128 511,5 (28) 9,102 511,5	\$ 600'00t \$ 82'00t \$ 28
Feb-14	5 Q		***		5 510,14	~ ~
<u>Jan-14</u>	\$ 11,457,630 11,097,558 360,072 313 313	1,455,506 7,455,506 7,455,619 7,455,612 7,455,682 7,455,682 7,455,682	\$ 7,004,030 \$ 489,067 \$ 7,493,097	81.115 <u>%</u> \$ 30.5 \$ 30	\$ 11,097,58 (34 \$ 11,097,554	\$ 360,072 360,042 \$ 30
Doc-13	817,CC7,11 817,CC7,11 102,027,11 714,C84 (246,786) 474,211	(19,778) 7,402,704 7,402,704 7,344,967 7,344,967 7,439,429	5 6.807,640 5 7.004.030 5 4.51,769 5 439,067 5 7,439,429 5 7,493,097	291.115% 5 26 5 3	111,250,327 (26) 111,250,301	\$ 483,417 483,391 5 26
Nov-13	\$ 11,402,413 10,964,079 438,334 (359,349) 78,985	14,590 7,190,671 7,269,656 7,220,364 7,230,364 36,152 7,306,008 7,306,008	\$ 6,639,785 \$ 416,220 \$ 7,306,008	37 91.115% 34 3	10,964,113 : [34] 10,964,079 :	131 131 130 130 131
<u>0ct-13</u>	5 11,871,782 5 11,256,514 15,248 (369,003) 246,245	6,694,946 7,141,191 7,010,069 35,090 7,176,281	\$ 6,796,248 \$ \$ 380,033 \$ \$ 7,176,281 \$	91.115%	11,256,514 \$ 11,256,514 \$	615,248 \$ 615,248 \$
<u>Sep-13</u>	5 11,581,870 5 10,984,426 597,444 (360,428) 237,016	7,505 8,624,216 8,861,232 8,742,724 33,714 6,894,946	\$ 6,550,003 \$ \$ 344,843 \$ \$ 6,894,946 \$	24 81.115% 22 5 2 5	10,884,448 \$ (22) 10,984,426 \$	597,444 \$ 597,422 22 \$
<u>Aug-13</u>	\$12,203,067 \$1 11,594,849 603,218 (378,158) 230,060	6,354,304 6,554,304 6,584,364 6,659,334 32,347 6,616,711	\$ 6.305.877 \$ \$ 310.834 \$ \$ 6.616.711 \$	81.115% 5 - 5	11,594,849 \$1	608,218 5 608,218 5 - 5
<u>Jul-13</u>	\$ 11.926,979 \$1 11.361.018 1 565,961 (372,772) 193,189	(1.427) (1.427) (1.29.982 (1.23.477 (1.2357) (1.2354,304	6,075,817 \$ 278,487 \$ 6,354,304 \$	91.115% 5	1,361,018 1,1 - 1,361,018 1,1	565,961 \$ 565,961 \$ - \$
Jun-13	\$11,270,173 \$1 10,701,100 577,073 (351,098) 225,875	6.243 5,675,492 6,101,467 5,988,480 29,942 6,131,409	5 5,884,055 5 5 247,354 5 5 6,131,409 5	23 91,115 M 21 5 2 5	510/201121 511,361,018 511,590,404 511,256,514 510,964,113 511,265,503 510,146 510, 512,625 510,871,34 511,012,022 511,021,280 5 11,813,725 510,701,100 511,361,018 511,560,403 511,256,514 510,964,079 511,250,015 11,012,025 112,45,005 510,877,138 511,017,902 511,051,280 5 11,813,325 510,701,100 511,361,018 511,560,448 511,256,514 510,964,079 511,250,015 11,012,025 112,45,005 510,877,138 511,017,902 511,013,375	577,073 \$ 577,052 21 \$
	4 Monthy Target Rovenue Monthy Target Rovenue Target va. Actual Rovenue Reversal of Previour Year Accrual * Net RBA Change	Adustiment(s) to Begéning Bélenco Beginning RBA Batance End Balance Bérene hinterest Balance Scheck to Interest Interest Ending REA Balance	Principal Postion 18570301 Interest Portion 18570302 Total	revenues charged in incorrect period adjustment tar rute net at tar revenue tar adjustment	Tangat va Actual Otfference: Per original calculation Adjustment for billing error Revised Revenues	Revised Adjuctment RBA Adjuctment RBA Adjuctment RBA Adjuctment
	51-11 21-11	دل 17) - 2 - (۱] 3,25% - 12 لوا				
	22228	📋 ອວອອລິ				

Nate [1] In connection with Dedston and Order No. 31908 on Schedde A of the Decoupting Investigation, lasued on February 7, 2014, the Company received approval on April 29, 2014 from the Internal Revenue Service to change its as restment of RBA revenue from the book accuual method forewous balancias account (RBA) revenue scondision to a recognition method based on when ratus are adjusted and revenues are collected, effective January 1, 2014, har internal Revenue Service to change its as restment of RBA revenues from the book accuual and the Gdowing mecome tax factorie to start and the second based on when ratus are adjusted and revenues are collected, effective January 1, 2014. Accordingly, starting with May 2014, interest is calculated based on a net-olishcome tax RBA balance. Internet Tax Factor (1 / 14xr rate) 1, 1308280121

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Note (2) Totals may not add exactly due to rounding.

Note [3] A manual adjustment wan made June 2016 to increase the RBA by \$\$35. The customer's home was completed in February 1996; which is reflected on the Hawaii County completed building permit. The Company was notified by Hawaii County, that this customer's permit was completed and dosed February 1998. When a permit is dosed due to complete to rate Schedule R instead of rate Schedule G, resulting in lower rates. Based on the June 2016, the Company was notified by Hawaii County, that this customer's permit was outputed the RBA accordingly.

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HELCO-WP-B-002 PAGE 2 OF 4

	REVENUE BALANCING ACCOUNT - REVENUE TRACKER Monthy Target Rovenue Recorde Adjunct Rovenue Recorde Adjunct Rovenue Revenue Rev	*******		Oct-14										
	Monthy Target Rovenue Recorde Adjund Revenue Targot va. Actual Revenue Revertal of Devious Year Accual - Net RBA Ghange	₩ 998 250 251 250 250 250 250 250 250 250 250 250 250		Н										
	Monthy Target Rovenue Recorde Adjusta Revenue Targot vs. Actual Revenue Reversal of Devious Year Accual - Net RBA Ghange	809 \$ 013 \$ 796 \$			Nov-14	Dec-14 J	<u>Jan-15</u>	Feb-15	<u>Mar-15</u>	<u>Apr-15</u>	<u>May-15</u>	<u>Jun-15</u>	<u>Jui-15</u>	<u>Aug-15</u>
	Terger V. Actual Revenue Reversal of Previous Year Accrual * Net RBA Change	515,796 (ces 010)	*				2-	10,781,092 \$ 10,403,619	-	\$ 11,393,492 \$	11,920,441 \$	11,642,774 \$ 11,065,115	12,429,089 \$	ದ ದ
	Analyzer and a second se	(62,757	704.093 (624.827) 79.266	(159,253) (159,253)	601,477 (616,455) (14,978)	69/,938 (525,597) 72,361	624,04J (600,503) 224,340	377,473 (566,218) (188,743)	(615,975) (615,975) (136,214)	(803.738) (803.738) (401.20)	(608,585) (608,585) 161,524	977,039 (404,725) 92,034	(E11,272) (E11,272) (E11,274)	(101,101) (538,959) (387,101)
	Adjustment(s) to Beginning Belance	1621		5,060	4,613		8,719		(601-1)		and the second se			
	Beginning RBA Balance			7,555,083			7,503,485	7,740,424	7,563,223	7,439,411	7,050,268	7,223,590	7,328,552	6,565,171
	End Balance Before Interest Balance Subject to Interest	7,446,166 4,499,149		4,568,758	7, 397,833 4,523,911			7.551.681 4.670.974	7,427,010	7,034,291	7,211,792	1,216,524 4,441,270	6,833,439 4,331,689	4,075,668
LIO L7+L9	Interest Ending RBA Balance	12,185 7,458,351	12,406 7,550,023		12,252 7,410,065 7	12,320 7,494,766 7	12,600 7,740,424	12,651 • 7,564,332	12,401 7,439,411	11,977	11,798	12,028	11,732 8,865,171	11,038 6,489,028
	Principal Portion 18670301 Interest Portion 18670302 Total	\$ 6,887,745 \$ \$ 570,606 \$ \$ 7,458,351 \$	6,967,011 \$ 583,012 \$ 7,550,023 \$	6,612,010 5 595,380 5 7,408,198 5	6,802,453 5 6 607,632 5 7,410,065 5 7	6,874,014 \$ 7 619,952 \$ 7,494,768 \$ 7	7,107,672 \$ 4	6.919.129 \$ 645.203 \$ 7,564.332 \$	6,781,607 5 657,604 5 7,439,411 (\$ 6,340,687 \$ \$ 669,581 \$ \$ 7,050,268 \$	6,542,211 \$ 681,379 \$ 7,223,590 \$	6,635,145 \$ 693,407 \$ 7,326,552 \$	6.160.032 \$ 705.139 \$ 6.865.171 \$	5,772,851 716,177 6,489,028
	revenues charged in incorrect period adjustment to rete	10				34	34	75 10 75	22	91 115%	10115	-	91,15%	81.115%
	r tax edjustment			~ ~		5 S	3 E	3 E	87	• •	и и	~~	· · ·	
	Target vs. Actual Otherence: Per original calculation	\$ 510,477,11 \$	\$ 11,244,632 \$1	11\$ 586,557,113	\$11,162,304 \$11			\$ 10,403,650 \$	11,428,464 5	\$ 11,190,874 \$	11,150,332 \$	11,065,115 \$	12,214,270 \$	\$ 12,404,230
	Autosiment tor builting error Revised Revenues	\$ 11,774,013 \$	\$ 11,244,832 \$1	\$ 11,753,993 \$ 11	511,162,304 511	5 11,407,627 \$ 10	110,995,905 \$ 11	5 10,403,619 5		\$ 11,190,874 \$	11,150,332 \$	11,065,115 \$	12,214,270 \$	\$ 12,404,230
	Revised Adjustment RBA Adjustment Recorded	\$ 815,796 \$ 815,796 \$	704,093 \$ 704,093	494,011 \$ 494,011	601,477 \$ 601,477	697,958 \$ 697,927	824,843 \$ 824,812	2 674,776 244,776	479,761 \$ 479,735	\$ 202,610 \$ 202,618 \$	770,109 \$ 770,109	577,659 \$ 577,659	214,619 \$ 214,619	311,778 311,778
	RBA Adjustment	- -	• •	• >	• •	5 FE	31 8	3 10	8	•	5 1	S .	s	
Note [1] Note [1] method of revenue balancing account (FBA7) revenue reco and the following lucome tax factor is used in the calculation. Income for Factor (1/1/1-ax rate) 1.536328121	Note [1] In connection with Decision and Order No. 31900 on Schedule A of the Deccupiling Investigation. method of revenue balancing account (RBA7) revenue recognition to a recognition method brased and the addwing income tax indicaris tusted in the calculation. Income Tax Factor (11/14ar rate) 1,536328121		an Februery 7, 2 in rates are adju	014, the Compt isted and reven	iny received api les are collecter	provel on April ; d, effective Jam	28, 2014 trom t uzry 1, 2014. J	he Internal Reve Accordingly, star	true Service to Ling with May 21	change its tax trea D14, interest is cal	timent of RBA (evel adsted based on a	issued on February 7, 2014, the Company received approval on April 29, 2014 bom the Internal Revenue Service to chunge its tar treatment of RBA revenues from the book accrual on when rates are adjusted and revenues are codected, effective January 1, 2014. Accordingly, starting with Nay 2014, interest is calculated based on a net-af-income tax RBA balance.	ccrual 1A balance,	
Note [2] Totals may not add execby due to rounding.	: to rounding.													
, Note [3] A monual adjustment was mad complete and dosed February odjusted the RBA accordingly.	Note [3] A mahual adjustmeni was made June 2016 to increase the RBA by \$835. The cuatomer's home was complete and chased Fabrusry 1996. When a permit is closed chan to completion the customer is chan durated the RAs accordraph?	er's home was con Istomer is changed	apleted in Febru I to rate Schedu	ary 1996; which le R instead of r	is reflected on a	the Hawaii Cou . resulting in lo	nty completed ver rates. Bas	building permit. Ed on this, June	The Company 1 2016, the Com	vas notified by Ha xeny re-calculated	waii County, that th the customer's till	was completed in Fehruary 1996, which is redected on the Hawail County completed building permit. The Company was notified by Hawail County, that bits customer's permit was changed to rate Schedule Rinstead of rate Schedule G. resulting in lower rotes. Based on this, June 2016, the Company re-calculated the customer's building born February 1998 and	wos 98 and	

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HELCO-WP-B-002 PAGE 3 OF 4

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HAWAII ELECTRIC LGHT COMPANY, INC. HAWAII ELECTRIC LGHT COMPANY, INC. MONTHLY FINANCIAL REPORT Ame 2016 - Change of Rate Schedule from G to R

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REVENUE BALANCING ACCOUNT - REVENUE TRACKER

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			Sep-15	<u>0ct-15</u>	Nav-15	Doc-15	<u>Jan-16</u>	<u>Feb-16</u>	<u>Mar-16</u>	Apr-16	May-16	
5		Monthly Target Revenue	\$ 12,069,162	\$12,371,592 \$ 11,662,296 \$12,227,648 \$11,939,793 \$10,609,698	11,652,296	\$ 12, 227, 848	\$ 11,939,793	\$ 10,849,658	\$ 12,026,039	11,506,563 3	12,040,414	
2		Recorded Adjusted Revenue		2016 210 01	11 643 073	11 717 600	11 5 20 4 09	10 038 064	11 736 019		11 611 450	
1:	:											
3 :	1. 1	I DI BOL VEL MOUNTER FRANCING	A 1070	000,087	C7C'DC7	0+7'010	A78	(001'01)	171102		02 07	
3		Reversal of Provious Year Accrual	(665,561)	(100,078)	(021,910)	(656,372)	(638,938)	(599,292)	[848,155]	(832,139)	(639,573)	
5	5.5	Net RBA Change	(241,766)	(382,675)	(413,595)	(148,124)	(219,844)	(647,458)	(356,135)	(\$55,570)	(210,609)	
		Adjustment(s) to Begiming Batance		1.260	55	55 BIST						
-										Tet 190.1		
9		activity Ken Balance	970,404,0	6,163,6U3	ENR'NAV'C	NCD CAC C	2011'CC7'C			ID. TCD'		
5	16+15	End Balance Before Interes:	6 151 886	5,760,928	5,377,214	5 246 906	5,035,064	4,397,119	4,046,795	3,498,217	3, 293, 855	
3	(re+ r3)+2+(i)	Batance Subject to Interest	3, 861, 167	3,648,457	3,411,273	3,249,968	3,143,622	2,883,966	2,501,560	2,306,760	2,076,547	
5	L8 × 3.25% + 12	Interest	10,457	9,026	9.239	0.302	8.514	7,811	6.992	6.247	5.624	
5		Ending RBA Batance	6, 162, 343	5,790,754	5,386,453	5,255,708	5.044,578	4,404,930	4 053 787	1504,464	3.299.479	
		Principal Portion 18570301	\$ 5,435,709	5 5.054.294 5	4.640.699	\$ 4,501,152	5 4,281,508	5 3,634,049	\$ 3,275,914 \$	2.720.344 3	2,509,735	
				- 710 ACA	746 764		010 010	4 770 B		Ter in	780 744	
		ninercek rondom rourouzo	5 6,162,343	5 5.790.754 3	5,386,453		\$ 5,044,578	\$ 4,404,930	2 4,053,787	3,504,464	3,299,479	
					i	;	;	;			•	
		revenues charged in incorract period adjustment							, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
			KC1 '18	KCIT.		4CI '18	KCI1'18	4011.18	MCH'IA	ACT IS	VC1 14	
		net of tax	•		8	23	5	*				CT0
		revenue tax adjustment	•	. .	2	•	5 5	5	•	•	•	82
		Target vs Actual Difference:										
		Per original calculation	\$ 11,740,743	\$ 12,075,236 \$	11,643,993	\$ 11,717,628	\$ 11,520,530	\$ 10,938,100	\$ 11,736,019	\$ 11,740,743 \$ 12,075,236 \$ 11,643,993 \$ 11,717,628 \$ 11,520,530 \$ 10,938,100 \$ 11,738,019 \$ 11,431,894 \$ 11,611,450	11 611 450	
		Adjustment for billing error	•	•	ଛି	(28)	(10)	(36)	•			(835)
		Revised Revenues	\$ 11.740.743	\$ 12,075,236	C70,CM3,11	\$ 11,717,600	\$ 11,520,499	5 10,938,064	5 11 736 019 5	054/119/11 \$ M68/1074/11 \$ 610/962/11 \$ 190/966/01 \$ 686/025/11 \$ 009/21/2/11 \$ 126/09/11 \$ 972/02/21 \$ \$2/07/21 \$	11,611,450	
		Revised Adjustment	5 328,419 5					-	\$ 290,020 \$	16,569 \$	428,964	
		RBA Adjustment Recorded	328,419	296,356	238,303	510,220	419,263	(45,202)	290,020		128.964	
		RBA Adjustment	•	s . S	8	\$ 26	10 5	3 6 36	5		•	835 JE #H000067713

Note [1] In connection with Decision and Order No. 31903 on Schedule A of the Decoupting 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 excrust insolved of revenue Mandering revenue recognition is a recognition method based on when rates are adjusted and revenues are collected, effective January 1, 2014. Accordingly, starting with May 2014, interest is calculated based on a reford-throme tax RBA balance, and the following home are in the calculation method based on when rates are adjusted and revenues are collected, effective January 1, 2014. Accordingly, starting with May 2014, interest is calculated based on a reford-throme income Tax Factor (1 / 14ur rate) 1,836929121

Note [2] Totals may not edd exectly due to rounding.

Note (3) A manual adjustment was mode June 2016 to increase the REA by \$835. The cuatomer's home was completed in February 1986; which is reflected on the Hawaii County completed building permit. The Company was notified by Hawaii County, but this customer's permit was complete and doced February 1996. When a permit is dozed due to completion the customer is changed to rate Schedule G, resulting in lower rates. Based on bits, June 2016, the Company re-calculated building them February 1986 and adjusted the RBA accordingly.

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HELCO-WP-B-002 PAGE 4 OF 4

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HELCO-MP-B-003 HAWAII ELECTIRG LIGHT COMPANY, INC. MONTHLY FILANCIAL REPORT June 2016 - Schedde F Incorrect Detaul Power Factor

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REVENUE BALANCING ACCOUNT - REVENUE TRACKER

			1													
			Pro-Rated Apr-12	<u>May-12</u>	<u>Jul-12</u>	Jul-12	Aug-12	Sep-12	<u>0ct-12</u>	Nov-12	Doc-12	Et-net	Feb-13	Mar-13	Apr-13	May-13
		-														
5		Monthly Target Revenue	\$ 8,099,84	2 \$11,556,082		\$ 11,758,125	\$ 12,030,111	511,210,037 511,758,125 512,030,111 511,417,861 511,703,653 511,241,014 511,567,157 511,294,996 510,301,483	\$ 11,703,653 !	11,241,014 5	11,567,157	11,294,996		\$11,378,512 \$10,886,659		\$ 11,390,130
2		Recorded Adjusted Revenue	8,170.23	8,170,231 11,274,762		11.222.450	11,329,337	10.601,056	11,225,938	10.791.183	11,155,637	11,163,161		11,215,132	10.714.795	11,004,371
2	11.12	Tasoet vs. Actual Revenue	(70.369)	91 281.320		X15.867	700.774	816.805	217.715	102-624	411.520	131,035	70.687	161,360	171.864	385,759
3	ŧ	Reversal of Previous Year Accrual *		_			•			•						
2	n.,	Net RBA Change	(596,07)	9) 251,320	752,323	535,667	700,774	816,805	477,715	449,831	411,520	131,835	370,687	161,360	171,864	305,759
1	منعدي تستنهيس ويحدينهم الدامة تعالما مالياتيات العار	Adduction of Redening Science							17 20	······································	6 7 toi	76 368	31 148	5.659		515
	The second provide the second se															
91		Beniming BRA Balance		(20 555)		AGR JRA	1 508 202	2 218 269	3.065 435	3 559 671	4 022 715	4 4 91 745	4 677 516	5 078 175	5 265 249	5 484 384
15	L6 • L5	End Balance Before Interest	170.3451		963 4 28	1.502 0.31	2.203.976	2.035.074	3.543,150	4.009.502	1,134,235	4 623,560	5.048.203	5,239,555	5.437.213	5.850.643
5	(16 + 17) + 2 + [1]	Balance Subject to Interest	(35,195)		587.267	1.234.195	1.858.589	2.626.672	3,304,293	3.764.567	4.228.475	4.557.663	4.662,860	5,158,865	5,351,281	5,657,764
9	10 3.25% 12	Interest	(176)		2,935	6.171	1,293	13.133	16.521	10.923	21.142	22.786	24,314	25.794	26.756	26,289
110		Ending RBA Batance	(70,585)	5) 211,105	966,364	1,508,202	2,218,269	3,046,207	3,559,671	4,028,425	4,455,377	4,646,368	5,072,517	5,265,349	5,463,969	5,875,932
			:													
		Principal Portion 166/0301	2E'0/) \$	N .	5 963,254		5 1 495,921 \$ 2,199,593	5 3,016,500		2 3,961,189 5 4,366,661			\$ 4'810'ER4	20/701 0	900'1/7'0	0,561,240
		Interest Portion 18670302	\$ (176)	•••	3,110	5 9,261	\$ 18,574	107.1E \$		67,226					159,403	217,692
		Total	\$ (70,565)	5) \$ 211,105	\$ 966,364	966,364 \$ 1,508,202	\$ 2.218.269	\$ 3,048,207	\$ 3,559,671	\$ 4,028,425	5 4,455,377	\$ 4,646,368	\$ 5,072,517	\$ 5,265,349 4	\$ 2'463'368 3	5,878,932
		revenues charged in incorrect period adjustment		•	606	924	606	652	825	26 8	069	886	669	9 89	10 6	016
		tax rate	91,115%	¥ 91,115%	91,115%	91.115%	91,115%	91,115%	91.115%	91,115%	91,115%	91.115%	91,115%	91,115%	91,115%	91.115%
		net of tar	~	•	\$ B28	5 841	5 628	\$ 819	5 752 3	816 \$	811	808	5 817 3	816 \$	823 \$	\$29
		revenue tax adjustment	~		\$ ⁸¹	\$ 82	š . 81	3	2	80	62	- 19	80 3	80.5	80	ē
		Tarrael va Arhial Nifference.														
		Per original calculation	\$ 8,170,23	231 \$11,274,762 \$10,458,442 \$11,222,289 \$10,501,875 \$11,226,690 \$10,781,999 \$11,163,969 \$ 9,91,613 \$11,215,948 \$10,715,618 \$11,005,200	\$ 10,458,542	\$ 11,223,299	\$ 11,330,165	\$ 10,601,875	\$ 11,226,690	\$ 666'16'10'	11,156,448	11,163,969	1 019106/8 1	\$ 11,215,948 S	10.715.618 \$	11,005,200
		Adjustment for billing error		•	(828)	(11)	(828)	(819)	(752)	(816)	(811)	(808)	(817)	(816)	(823)	(829)
		Revised Revenues	\$ 6,170.23	3 6,170,231 5,1,274,782 5,10,457,714 5,1,225,456 5,1,329,337 5,10,601,056 5,1,225,938 5,10,781,163,537 5,11,163,161 5, 9,930,786 5,11,215,132 5,10,714,795 5,11,004,371	\$ 10.457.714	\$ 11, 222, 450	11.329.337	\$ 10.601.056	11 225 938	10.791.183 5	11.155,637	11.163.161	962'026'6 \$	3 11 215 132 3	10.714.795 \$	11.004.371
		Revised Adjustment	S (70,34	••	\$ 752,323	\$ 535,667	\$ 700,774	\$ 616,805	\$ 477,715 \$	449,831 \$			5 370,667 5	5 161,350 \$	171,864 \$	345,759
		RBA Adjustment Recorded	(70.389)	9) 281,320	751,495	534,826	699,946	015,986	476,963	449,015	410,709	131,027	369,870	160,564	171,041	384,930
		RBA Adjustment	~	•	5 626	5 841	\$ 828	5 619	52 4	616	911	503	817 4	616 \$	823 5	629

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Note [1] In connection with Decision and Order No. 31900 on Schedule A of the Decoupting Investigation, issued on February 7, 2014, the Campany received approval on April 24, 2014 form the Internal Revenue Service to change its tar treatment of RBA revenues form the book accutal method fortwerve based and service is recognition to a recognition method based on when rates are adjusted and revenues are collected, officitive January 1, 2014, Accordingly, starting with May 2014, interest is calculated on a net-of-forome tar RBA habance, and no of officient proceedingly, starting with May 2014, interest is calculated on a net-of-forome tar RBA habance, and the forme Tar Factor (1 / 14ar rate) 1536920121

Note [2] Totols may not add exactly due to rounding.

Note [3] A manual edustment was made June 2016 to increase the RBA by \$34,301. December 2015 the Company determined that the default power factor in SAP used to calculate the Schedule F customer rates was incorrect. Based on this, June 2016, the Company re-calculated the customer's billing from May 12, 2012 and adjusted the RBA accordingly.

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HELCO-WP-B-003 PAGE 1 OF 4

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

HELCO-MP-B-003 HAWAII ELECTRIC LIGHT COMANY, INC. MONTHLY FINANCIAL REPORT Juna 2016 - Schedule F Incarret Default Power Factor

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		-	Jun-13	Jui-12	Aug-13	<u>Sap-13</u>	Oct-13	<u>Nov-13</u>	Dec-13	Jan-14	F <u>9</u> b-14	Mar-14	Apr-14	May-14	ht-nut	<u>1-11</u>
22323	11-12 11-13	Manthy Target Ravenue Recorded Adjusted Revenue Target vs. Accural Ravenue Revesal of Perdous Year Accutal * Net REA Change		\$ 11,826,979 \$ 11,360,287 566,692 (372,772) 193,920	\$ 12,203,067 \$ 11,594,013 609,054 (376,158) 230,896	\$ 11,581,870 \$ 10,983,612 598,258 (360,428) 237,830	\$ 11.871.762 \$ 11.255.678 616.084 (369.003) 247.081	\$ 11,402,413 \$ 10,963,277 439,136 (359,349) (359,349) 787,87	\$ 11,733,718 \$ 11,249,484 484,234 (367,843) 116,291	\$ 11,457,630 \$ 11,096,751 360,679 (359,759) 1,120	\$ 10,449,911 \$ 10,146,316 301,595 (325,767) (24,172)	\$ 11.540,457 \$ 11.244,822 295,635 (359,086) (63,453)	\$ 11,043,499 \$ 10,876,320 167,179 (349,480) (182,301)	\$ 11,554,261 1 11,017,084 537,177 (357,105) 180,072	\$ 11,635,604 \$ 11,050,528 585,076 (605,866) (20,790)	12,304,971 11,612,492 492,479 (554,545) (152,168)
	en and an a surface of the surface o	Adustment(e) to Beginning Balance	6,243	(121)		1,505		14,590	(877,81)	16,077		5,265	(8,446)	(45,763)	016,1	
95995	L8 + L5 (L6 + L7) + 2 + [1] L8 x 3,25% + 12 L7 + L9	Beginning RBA Balance End Balance Defore Interest Balance Scolject to Interest Interest Ending RBA Balance	5,885,175 6,111,965 5,998,570 29,993 6,141,858	6,140,531 6,334,451 6,237,481 31,187 6,385,638	6,365,638 6,596,534 6,481,066 32,405 6,628,939	6,636,444 6,874,274 6,755,359 53,777 5,908,051	6,908,051 7,155,132 7,031,592 35,158 7,190,290	7,204,880 7,284,667 7,244,774 35,224 7,320,891	7,302,113 7,418,404 7,360,259 36,801 7,455,205	7,471,282 7,472,402 7,471, 9 42 37,359 7,509,761	7,509,781 7,485,589 7,497,675 37,486 7,523,077	7,528,342 7,464,889 7,496,815 20,303 7,485,192	7,475,746 7,293,444 7,284,595 20,000 7,013,444	7,267,681 7,447,753 4,494,829 12,173 7,459,926	7,461,636 7,441,045 4,552,085 12,329 7,453,374	7,453,374 7,291,208 4,503,733 12,198 7,303,406
		Principal Portion 18570301 Interest Portion 18870302 Total	\$ 5,894,273 \$. 247,685 \$ 6,141,958	5 6,088.766 5 5 278.672 5 5 6,365.638 5	\$ 6,317,662 \$ \$ 311,277 \$ \$ 6,626,939 \$	\$ 6,562,602 \$ \$ 345,449 \$ \$ 6,908,051 \$	6,609,663 5 380,607 5 7,190,290 1	\$ 6.904,025 \$ \$ 416,966 \$ \$ 7.320,691 \$	7,002,694 5 452,511 5 452,511 5 1 452,511 5	7,019,691 5 489,670 5 489,761 1	6,995,719 5 527,358 5 7,523,077 1	6,937,531 5 547,661 5 7,485,192	5 6745,703 5 5 567,661 5 5 7,313,444	5 6,924,943 5 5 534,983 5 5 7,459,928	6.906.062 \$ 547.312 \$ 5 7.453.374 \$	6,743,896 559,510 7,303,406
		revenues charged in incorrect period adjustment tar nois net of tax roverue tar adjustment	918 91,115% \$363 \$263 \$2	802 91,15% 71 5	918 91.115% 82.5%	918 91.115% 836 5	918 91,115% 83.6 \$	918 91,115% 838 5 82 5	925 91.115% 843 5 82 5	918 91.115% 837 \$ 82 \$	891 91.115% 812 3 79 5	885 91,115% 808 1 79 1	897 91.115% 818 5	897 91.115% 818 5	036 91.115% 5 762 5	914 91.115% 833 81
		Target va Actual Difference: Per original calculation Adjustment for billing error Revised Revenues	\$10,701,121 \$11,361,016 \$11,594,840 \$10,304,448 \$11,256,514 \$10,964,113 \$11,256,327 \$11,097,568 \$10,149,125 \$11,245,628 \$10,677,138 \$11,07,902 \$11,051,290 (339) (731) (731) (349) (349) (349) (349) (350) (341) (341) (342) (342) (342) (342) (342) (342) (342) (313) (313 \$10,700,255 \$11,304,013 \$10,303,612 \$11,255,678 \$10,003,277 \$11,249,444 \$11,046,316 \$11,244,622 \$10,875,320 \$11,017,064 \$11,056,328	.121 \$11,361,016 \$11,594,849 \$10,964,446 \$11,256,514 \$10,964,113 \$11,256,327 \$11,097,568 \$10,149,128 \$11,245,628 \$10,677,138 \$11,071,902 \$11,051,290 (839) (731) (839) (849) (819) (819) (810) (810) (812) (812) (812) (812) (812) (816) (818) (.11,594,848 \$	10.984,448 5 (836) 10,983,612 5	.11.256,514 5 (836) 11,255,878 5	10.964,113 5 (836) 10.963,277 5	11,250,327 (543) 11,249,484 \$	11,097,568 5 (637) 11,096,751 5	10,149,126 5 (812) 10,148,316 5	(11,245,628 5 (806) (11,244,822 5	10,877,138 5 (818) :10,876,320 5	6 11,017,902 1 (816) 6 11,017,084 1	6 11,051,290 \$ (762) 6 11,050,528 \$	\$ 11,813,325 (833) \$ 11,812,492
		Revised Adjustment RBA Adjustment Recorded RBA Adjustment	\$ 577,088 5 577,052 \$ 836 3	\$ 566,692 \$ 565,961 \$ 731 \$	609,054 \$ 608,215 636 \$	508,258 \$ 597,422 636 \$	616,084 \$ 615,248	439,136 5 439,300 5 836 5	484,234 \$ 483,391 843 \$	360,878 \$ 360,042 837 \$	301,595 3 300,783 812 5	295,635 3 294,829 806 5	167,179 5 168,361 5 18,361 5	\$ 537,177 5 536,359 \$ 818 3	585.078 \$ 584.314 5762 \$	492,479 491,646 833

Note [1] In concert with Decision and Order No. 31906 on Schedute A of the Decoupling Investigation, issued on February 7, 2014, the Campany screined approval on April 28, 2014 from the Internal Revenue Service to change IIS arx treatment of RBA revenues from the book accual In concert on electron with Decision and Order No. 31906 on Schedute A of the Decoupling Investigation, issued on February 7, 2014, the concert of the Approximation of a company service and the fourth of the Approximation of the Approxim

Note (2) Fotals may not add exactly due to rounding.

Note [3] A manual objustment was made June 2016 to increase the RBA by \$34,301. December 2015 the Company determined that the delault power factor in SAP used to calculate the Schedule F customer rates was incorrect. Based on this, June 2016, the Company re-calculated the customer's billing from May 12, 2012 and educated the RBA accordingly.

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HELCO-WP-B-003 PAGE 2 OF 4

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REVENUE BALANCING ACCOUNT - REVENUE TRACKER

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HELCO-WP-B-003 HANVAII ELECTRIC LIGHT COMPANY, INC. MONTHLY FILANDUAL REPORT JUNE 2016 - Schedule F Incorrect Detault Power Factor

			<u>Aug-14</u>	<u>Sep-14</u>	<u>0ct-14</u>	Nov-14	Dec-14	<u> 31-net</u>	<u>Feb-15</u>	<u>Mar-15</u>	Apr-15	May-15	<u>] 21-101</u>	<u>-115</u>	<u>Aug-15</u>
59		Monthly Target Rovenue	\$ 12,589,809 \$					**	\$ 10,761,092 \$		\$ 11,393,492 \$	11,920,441 \$	11,642,774 \$		5 12,716,008
33	c1.11	Recorded Adjusted Revenue Terretve, årdnel Revenue	11,773,174	11,244,058 704 867	11,753,218	11,161,464	11,407,157 698,428	10,995,496 825,252	10,403,199	11,425,627 480,572	203.446	11,149,495 770,946	11,064,279 578 495	215,622	12,403,449
13	;	Reversal of Previous Year Accrual *	(653,039)	(624,627)	(653,264)	(616.455)	(625,597)		(\$66,216)	(615,975)	(603,738)	(608,585)	(484,725)	(669,932)	(658,959)
5	L4 • L3	Net RBA Change	163,596	60,040	(156,479)	(14,138)	72,631	224,749	(188,323)	(135,403)	(400,292)	162,361	93,770	(474,310)	(386,400)
Ц		Adjustment(s) to Beginning Balanco	1.751		5,060	4,613		8,719		(100)			· · · · · · · · · · · · · · · · · · ·		
F.G		Beniming RBA Batance	7,305,157	7.480.974	7.578.510	7.437.060	7.435.215	7.529.127	7.766.518	7,589,780	7.466.822	7.078.553	7,252,760	7.358.607	030,030
5	16 + L5	End Balance Before Interest	7 455 752	7,561,014	7,420,039	7.422.922	7.508,048	7,753,875	7,578,195	7 454 377	7,066,530	7,240,914	7,346,530	6,684,297	6,509,680
2	(rs + rz) + 2 + [r]	Balance Subject to Interest	4,512,691	4,594,575	4,581,309	4,538,981	4,564,419	4,668,193	4,687,043	4,595,234	4,439,212	4,373,661	4,459,353	4,350,495	4,094,789
2	L0 x 3.25% - 12	Interest	12,222	12,444	12,406	L82,21	12,362	12,643	12,894	12,445	12,023	11,846	12,077	11,783	11,090
29	61 + 71	Ending RBA Balance	7 460 974	7,573,458	7,432,447	7,435,215	7,520,408	7,766,518	7,590,689	7.466.522	7,078,553	7,252,760	7,358,607	6,896,050	6,520,770
		Principal Portion 15570301	\$ 6,909,242	6.969.262 \$		6.026.330 \$	6.699.169 \$	*1	6.944.313 5	6.807,801	5.407.509 \$	6,569,070 \$	6.663.640 \$	6.189.330	5,802,930
		Interest Portion 18670302	\$ 571 732	584,176 \$	596,584 \$	\$ 608,877 \$	~	633,862 \$	646,576 \$		5 671,044 5	682,890 \$	694,967 \$	706,750	717,840
		Total	\$ 7,480,974	1,573,458		\$ 7,435,215 \$	*	*7	7,590,689 \$		1,078,553 \$	7,252,760 \$	7,358,607 \$	6.596,050	6.520.770
		revenues charged in incorrect period adjustment	921	849	849	822	550	39	495	919	60 8	616	818	198	657
		tax rata	91.115%	91.115%	91.115%	91.115%	81.115%	91.115%	91,115%	91,115%	91.115%	91.115W	91.115%	91.115%	91.115%
		net of tar	5 839 1	774 5	2 174 5	B40 \$	501 \$	40 \$	451 \$	817	026 \$	\$ 109	\$ 959	803 8	781
		revenue tax adjustment	\$ 52 3	75 \$	22 \$	82 \$	49 \$	43 24	47 S	82	81 \$	82 \$	82 \$	76 1	76
		Target vs Actual Difference:													
		Per original calculation	\$ 11.774.013	\$ 11,774,013 \$ 11,244,832 \$ 11,753,993 \$ 11,162,304 \$ 11,407,658 \$ 10,995,938 \$ 10,403,650 \$	\$ 066'092'11'	11.162.304 \$	11,407,658 \$1	0.995,936 \$	10,403,650 \$	11 426 464 5	11,426,464 \$11,190,874 \$	11,150,332 \$	11 065 115 5	12,214,270 \$ 12,404,230	12,404,230
		Adjustment for billing error	(839)	(114)	(174)	(0+0)	(501)	(440)	(451)	(837)	(828)	(202)	(836)		(181)
		Revised Revenues	\$11,773,174 \$11,244,056 \$11,753,219 \$11,161,464 \$11,407,157 \$10,895,496 \$10,403,199 \$	11,244,056 \$	11,753,219 \$	11,161,464 \$	11,407,157 \$1	5 967'568'0	0,403,199 5	11,425,627	11,425,627 \$ 11,190,046 \$	11,149,495 5	11,064,279 \$	12,213,467	12,403,449
		• Rea adjustment • Rea adjustment Recorded	415 796	109,801	10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	6 /1 7 7 9	697 977	C 767'670	C 160'110	479,215	203,446 3	770109	577 659	210,012	822,215
		RBA Adjustment	S 658 S	774 \$	774 5	840 5	501 \$	440 5	451 5	5 7 58	828 5	037.5	836 5	803 5	102
			•				Ì	•	Ì						
Note 11	8														

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Note [1] In connection with Decision and Order No. 31909 on Schedule A of the Decoupting Investigation, issued on February 7, 2014, the Company received approval on April 28, 2014 from the Internal Revenue Service to the approxement of RBA revenues from the book accural method overveue balancing account (RBA) revenue recognition to a recognition method based on when rates are adjusted and revenues are callected, effective January 1, 2014. Accordingly, starting with May 2014, interest is reladiated based on a net-of-income tax RBA balance. Into the following boome tax factor is used in the calculation.

Note [2] Totabis may not add exactly due to rounding.

Note [3] Note [3] catomer's billing from May 12, 2015 and adjusted the RBA by 54, 301. December 2015 the Company determined that the default power factor in SAP used to calculate the Schedule F cartomer rater was incorrect. Based on this, Juna 2016, the Company re-calculated the catomer's billing from May 12, 2012 and adjusted the RBA accordingly.

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HELCO-WP-B-003 PAGE 3 OF 4

HELCO-WP-B-003 HAWAII ELECTRICI UICHT CONRANY, INC. MONTHLY FINANCIAL REPORT June 2016 - Schedule Fincenred Default Power Factor

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

				- 10	5	419,924 419,283 661 \$ 34,301 JE #H000067714
			37,64	\$ 34,301 \$ 3,345	06,45)	34,30
<u>Jan-16</u>	5 11,939,793 11,519,669 419,924 (838,938) (219,014)	5,290,497 5,071,483 3,165,067 8,572 5,080,055	\$ 4,315,043 \$ 765,012 \$ 5,080,055 \$ 7,55 \$ 37,646 91,115%		\$ 11,520,530 (661) \$ \$ 11,519,869	5 419,924 419,263 5 661 5
<u>Dec-15</u>	112,227,848 11,716,967 510,801 (656,372) (145,491)	6,427,128 5,427,128 5,281,630 3,270,993 8,659 5,290,497	\$ 4,534,057 \$ 756,440 \$ 5,290,497 725 91,115%	59.56	.11,717,628 (661) .11,716,967	510,881 510,220 661 3
<u>Nov-15</u>	11.882,296 3 11.643,274 239,022 (651,916) (412,096)	1 1	4,672,971 5 747,561 5 5,420,552 1 769 91,115%	710 5	11,643,993 \$ (719) 11,643,274 \$	239,022 \$ 238,303 719 \$
<u> Oct-15</u>	12,371,592 \$ 12,074,481 297,101 (679,031) (361,930)	1,260 6,196,147 5,614,218 3,668,566 9,881 5,824,099	5 5.085,868 5 5 738,231 5 5 5,824,099 5 818 81 115%	745 5	12,075,236 5 (745) 12,074,491 5	297,101 \$ 296,356 745 \$
Sep-15	5 (2,069,162 \$ (2,2/),582 \$ (1,032,266 \$ (2,227,046 \$ (1,039,75) 11,739,693 (2,07,481 (1,1,4),274 (1,16,697 11,519,565 11,239,699 237,101 239,022 \$ (1,081 419,528 (25,561) (210,031) (65,1916) (656,372) (336,092 (336,352) (301,930) (412,096) (445,491) (219,014	1	5 5,466,537 5 5 728,350 5 5 6,194,887 5 623 91 115%	202 1 250 5	\$ 11,740,743 \$ 12,075,238 \$ 11,643,993 \$ 11,717,628 \$ 11,520,530 (750) (719) (749) (749) \$ 11,643,274 \$ 11,716,967 \$ 11,519,169 \$ 11,739,993 \$ 12,074,491 \$ 11,643,274 \$ 11,716,967 \$ 11,519,169	329,169 5 326,419 750 5
	Monthly Target Revenue Recorded Adjunkto (Revenue Reget va. Actual Revenue Revenato di Previdua Yeer Accuat Net RBA Change	Balance	Principal Portion 18870301 Interest Portion 18670302 Tata Tata Tervens charged in incorrect period adjustment tervens	net of tax revenue tax adjustment	Tagor va Actual Difference: Actionation Adjustment (sh bibing error Revised Revenues	Revised Adjustment REA Adjustment Recorded REA Adjustment
	ย-ม เ	LP L8+L5 L7 L8+L5 L8 L6+L7+2+(1) L9 L8+125%+12 L10 L7+L8				
	22323	20003				

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Note [1] In connection with Datation 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 Ib star betation of REA, reserves from the book accuration of revenue abancting account (FRAA) revenue recognition as a recognition method based on when rates are adjusted and revenues are obsciend, stretche January 1, 2014. Accounting with May 2014, interest is calculated based on a more area and the faltowing income tax factor is used in the froome Tax Factor (11/14ar rate) 11036828121

Note [2] Totals may not add exectly due to rounding.

Note (3) A manual adjustment was made June 2016 to increase the RBA by \$34,301. December 2015 the Company determined that the default power factor in SAP used to calculate the Schedule F custamer rates was incorrect. Based on bis, June 2016, the Campany re-catculated the custamer's billing from May 12. 2012 and softwed the RBA accordingly.

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

HELCO-WP-B-004 HAVWII ELECTRIC LIGHT COMPANY, INC. MONTHLY FINANCIAL REPORT August 2016 - Change of Rate Schedule from G to R

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	אבעבועטב מאנאוא	REVENUE BALANCING ACCOUNT - REVENUE TRACKER															
			Pro-Rated	Loc Loc													[
	-		Apr-12		May-12	<u>Jul-12</u>	<u>Jul-12</u>	Aug-12	<u>Sop-12</u>	<u>oct-13</u>	Nev-12	<u>Dec-12</u>	<u>180-13</u>	<u>Fob-13</u>	Mareij	<u>Apr-13</u>	May-13
:	-	Lineth, Toront December 1				10001011	301 360 136		11 117 PC	111 JUL 2010 11 JUL 2010 2010 11 JUL 2010 2010 2010 2010 2010 20		11 567 167	900 P00 11 9		C13 071 11 9		011001113
		wounty I arget Mayering	50	~	* 790'0CC	10001211	C71'8C/'II	111/000/21 6	100'71 • 11 •	100 m 11 t		101,100,110	DEC" 427'11 C		710 010 110		11, 130, 13U
2		Recorded Adjusted Revenue	9.170		11, 274, 735	10,458,507	11,223,264	Ę	10,601,840	=	10,791,964	11,156,413	11,163,934	9,931,578	11,215,914	10, 715, 543	11,0U5,165
3	2-1	Target vs. Actual Revenue	(896,07)	(697)	281,347	751,530	534,861	186,991	816,021	476,998	449,050	410.744	131,062	369,905	160,598	171,076	364,965
3		Reversal of Previous Year Accrual			•		•	•	•	•	•	•	•		•	•	•
2	1. 1	Net RBA Change	Ê	(696.0	201,347	751,530	534,861	196,963	818,021	476,998	449,050	410,744	131,062	369,905	160,598	171,076	304,965
		Adustment(s) to Beginning Batance								17 220		(0)2'5)	36,368	31.148	5.650		615
9		Beginning RBA Batance			(70,565)	211,133	965,597	1,506,623	2,215,067	3,062,255	3,555,757	4,017,998	4,456,227	4,671,196	5.071,040	5,257,395	5,456,101
5	L6 + L5	End Batance Setore Interest	5	(686.0	210 702	982,663	1,500,458	2,206,604	3,031,908	3,539,253	4,004,507	4 428,742	4,617,289	5,041,101	5, 231, 636	5,428,471	5,841,066
3	(TB+C7)+2+(1)	Batance Subject to Interest	55	5,195)	20.109	586.695	1,233.028	1.856.614	2,623,093	3.300.754	3.760.202	4 223.370	4.551.758	4.856.149	5,151,339	5.342.933	5,648,504
5	LB x 3.25% + 12	Internat		(176)	156	108.2	6.165	282.8	13,119	16.504	10.901	21.117	22,759	24.281	25.757	26.715	28,243
10		Ending RBA Batance	02	565)	211.133	965 597	1.508.623	2.215.687	3.045.027	3.555.757	4.023.708	4 449 859	4.640.048	5.065.382	5 257 395	5.455.186	5,669,309
2				lene's		100,000											
		Principal Portion 15670301	\$ (70	\$ (60()(2))	210,958 5	962,488	8 1,497,348	\$ 2,197,330	\$ 3,013,351	\$ 3,507,502		\$ 4,361,235	\$ 4,528,018 \$ 4,928,686	\$ 4,925,686	\$ 5,094,942	\$ 5,266,018	\$ 5,651,898
		Interest Portion 18670302		(178) \$	175 5	3,109	5 9.274	\$ 18,557	\$ 31,676	S 48 255	\$ 67,156	5 88,621	\$ 112,030	\$ 136,696	\$ 162,453	\$ 169,165	5 217,411
		Totał	2	1,565) \$	Z11,133 \$	965,597	\$ 1,506,623	\$ 2,215,667	\$ 3,045,027				\$ 4,640,048	\$ 5,065,382	\$ 5,257,395	\$ 5,455,186	\$ 5,069,309
		revenues charped in incarrect period a diustment			29	2	7	39	61	61	۶۲ ۲	98	51	6£	2	8	36
		tax rote	16	91.115%	91.115%	91.115%	91,115%	91.115%	91,115%	91.115%	91.115%	91.115%	91.115%	91.115%	91.115%	91.115%	81.115%
		net of tax	5	5	27 \$	5	35	35	235	\$ 35	SC 25	35	5	\$	2	5 35	35
		revenue tox adjustment	*	•		n	•	5 3	s.	•		•		3	•		-
		Tatoti va Actual Difference:															
		Per original calcutation	\$ 8,170.	11 \$ 162.0	274,762 \$	10,458,542	111,Z23,Z99	\$ 11,330,165	\$ 10,601,875	\$ 11,226	\$ 10,791,899	11,158,448	\$ 11,163,969	\$ 9,931,613	\$ 11,215,948	\$ 10,715,618	5 11,005,200
		Adjustment for bitting error			5	(35)	(35)	(35)	(35)	(35)	(35)	(35)	(35)	(35)	(140)	(35)	(35)
		Revised Revenues	\$ 8,170	115 1620	274,735 \$	10,458,507	11,223,264	\$ 11.330,130	\$ 10,601,840	8 81/2021 8 1/224 2/3 81/24920 81/225 281 2010 8 10/2010 8 11/228 628 810/2418 8 81/24 81/2	\$ 10,791,964	11,156,413	\$ 11,163,934	872,158,6 8	\$ 11,215,914	\$ 10,715,583	5 11,005,165
		Revised Adjustment	\$ (2)	\$ (695.0	281,347 \$	751,530	534,861	\$ 699,981 \$	\$ 816,021		\$ 449,050	\$ 410,744	\$ 131,062				\$ 384,965
		RBA Adjustment Recorded	6	(69)	201,320	751,495	534,826	699,946	015,986	476,963	449,015	410,709	131,027	369,870	160,564	171,041	304,930
		RBA Adjustment	~	•	27 \$	35	32	\$ 35	\$ 35	s	2 2 2	22	SE 35	SC 35	2	35	35

Note (1) In connection with Decision and Order No. 31904 on Scheddle 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 beatment of RBA revenues from the book accrual method of inversion Barbary Testing (1877) revenue recognition method based on when rates are adjusted and revenues are collected, effective January 1, 2014. Accordingly, starting with May 2014, interest its calculated on a net-of-income tax RBA balance. Internet tax tax based on a net-of-income tax RBA balance. Internet tax based on a net-of-income tax RBA balance. Internet tax taxes in a collected to a free tax tax tax balance in the tax tax balance in the tax tax balance. Income Tax Facture (11/14x rate) 1,536923121

Note [2] Totata may not add exactly due to rounding.

Note [3] A menual adjustment was made August 2016 to hore see the RBA by \$1,703. The customer's home was completed in January 2002: which is reflected on the Hawaii Courry completed building permit. The Company was notified by Hawaii Courry, but this customer's permit was completed dualed by Hawaii Courry, the transmost set of the second dualed by Hawaii Courry for the company re-calculated by Hawaii Courry for the castomer's permit was completed the second dualed by Hawaii Courry the transmost set of the second dualed by Hawaii Courry for the campany re-calculated by Hawaii Courry for the Company re-calculated by Hawaii Courry for January 2002 end adjusted the RRA accounded the second dualey.

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HELCO-WP-B-004 PAGE I OF 4

REVENUE BALANCING ACCOUNT - REVENUE TRACKER

HELCO-WP-B-004 HAWAII ELECTRIC LIGHT COMPANY, INC. MONTHLY FIXANCIAL REPORT August 2016 - Change of Rate Schedule from G to R

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			<u>[l-nut</u>	<u>141-13</u>	<u>Aug-13</u>	Sep-13	<u>0ct-13</u>	<u>Nov-13</u>	Dec-13	<u>Jan-14</u>	Feb-14	<u>Mar-14</u>	<u>Apr-14</u>	Mav-14	Jun-14	<u>Jul-14</u>
22223 2 2 2 2 2 3		Monthy Target Revenue Recorded Adjustes Revenue Reversue D Pendous Y des Accoust Net RBA Change	\$ 11,278,173 \$ 10,701,066 577,067 (351,098) 225,969	\$ 11,926,979 \$ 11,300,994 565,995 (372,772) 183,223	\$ 12,203,067 \$ 1 11,594,014 1 609,253 (378,158) 230,095	\$ 11,581,870 \$ 1 10,884,413 1 597,457 (360,428) 237,029	\$ 11,871,782 \$ 1 11,256,479 1 615,283 (369,003) (369,003) 246,280	\$ 11,402,413 \$ 1 10,964,078 1 435,335 (359,349) 78,986	\$ 11,733,718 \$ 1 11,250,292 1 483,426 (367,943) 115,483	\$ 11,457,630 \$ 1 11,087,553 1 360,077 (159,759) 318	\$ 10,449,911 \$ 1 10,149,093 1 300,818 (325,767) (325,767) (24,949)	\$ 11,540,457 \$ 1 11,245,593 1 294,664 (359,088) (64,224)	\$ 11,043,499 \$ 1 10,877,103 1 166,396 (349,480) (183,084)	\$11,554,261 \$1 11,017,667 1 536,394 (357,105) 179,289	\$ 11,635,604 \$ 1 11,051,255 584,349 (605,666) (21,517)	\$ 12.304.971 11.813.201 491.680 (654.645) (162.865)
		Adustments) to Beginning Balance	6,243	6,243 (1,427)		7,505		14,590	(15,776)	16.077	and the second	5,265	(10,776) (6,448) (5,276)	(45,763)	1,910	
L6 L9 L9 L9 L9 L9 L9 L1 L3 L3 L3 L3 L3 L3 L3 L3 L3 L3 L3 L3 L3	L6 + L5 (L6 + L7) + 2 + [1] L0 x 3.25% + 12 L7 + L9	Beginning RBA Bulance End Balance Betror Interest Balance Subject to Interest Interest Ending RBA Balanco	5,875,552 6,101,541 5,988,547 29,943 6,131,484	6,130,057 6,223,280 6,226,669 31,133 6,354,413	6,354,413 6,584,508 6,469,461 32,347 5,616,855	6,624,360 6,661,369 6,742,675 33,714 6,895,103	6,695,103 7,141, 363 7,018,243 35,091 7,176,474	7,191,084 7,270,050 7,230,557 36,153 7,306,203	7,287,425 7,402,908 7,345,167 36,726 7,439,634	7,455,711 7,456,029 7,455,870 77,455,870 77,455,870 77,455,870	7,493,308 7,468,359 7,480,834 37,404 7,505,763	7,511,028 7,448,804 7,478,916 20,255 7,467,059	7,457,613 7,274,529 7,366,071 19,950 7,294,479	7,248,716 7,428,004 4,483,004 12,141 7,440,145	7,442,055 7,420,538 4,539,779 12,295 7,432,833	7,432,633 7,269,660 4,490,940 12,163 7,282,031
		Principal Portion 18570301 Interest Portion 18670302 Total	\$ 5,884,130 \$ 247,354 \$ 6,131,484	6.075,926 \$ 278,487 \$ 5.6,354,413 \$	\$ 6,306,021 \$ \$ 310,834 \$ \$ 6,616,855 \$	\$ 6.550,160 \$ \$ 344,943 \$ \$ 6,895,103 \$	\$ 6,796,440 \$ \$ 380,034 \$ \$ 7,176,474 \$	\$ 6,786,440 \$ 6,889,981 \$ 6,937,342 \$ 340,034 \$ 416,222 \$ 451,792 \$ 7,176,474 \$ 7,306,203 \$ 7,439,634		5 7,004,237 5 5 469,071 5 5 7,493,308 5	\$ 8,979,288 \$ \$ 526,475 \$ \$ 7,505,763 \$	\$ 6,920,329 \$ \$ 546,730 \$ \$ 7,467,059 \$	\$ 6,727,799 \$ 5 \$ 566,680 \$ \$ 7,294,479 \$	\$ 6,908,175 \$ 4 \$ 533,970 \$ \$ 7,440,145 \$	\$ 6,066,560 \$ \$ 546,265 \$ \$ 7,432,833 \$	6,723,603 558,428 7,282,031
		revenues charged in incorrect period adjustment tar rate net of tax revenue tar adjustment	38 91.115% 5 35 3 5 3 3	91.115%	30 91.115% 35 5	39 91.115% 35 \$ 3 \$	19 115% 15 5 15 5	39 91.115% 35 5	39 91,115% 35 5 3 5	39 81.115% 35 \$	26 91,115% 35 5	39 91.115% 35 5 3 5	36 91.115% 35 5 3 \$	38 91.115% 35 \$	80 115/4 2015 18 2015 18	38 91.115 <u>%</u> 34
		Target ve Actual Officence: Per original cabdation Adjustment (re bällog error Revised Revenues	\$ 10,701,121 \$ (35) \$ 10,701,086 \$	\$ 810,186,111 (46) \$ M80,080,111	. 11,594,849 \$1 (35) . 11,594,814 \$1	10,984,448 \$ (35) 10,984,413 \$ 1	11,256,514 \$1 (35) 11,256,479 \$1	10,964,113 \$1 (35) 10,964,078 \$1	1,250,327 \$1 (35) 1,250,282 \$1	11,097,588 51 (35) 11,097,553 51	0,149,128 \$1 (35) 0,149,093 \$1	.1,245,628 3 (1,245,593 3 1,245,593 3	\$10,701,121 \$11,301,018 \$11,594,848 \$11,286,514 \$10,984,013 \$11,250,327 \$11,097,508 \$10,61245,628 \$10,677,138 \$11,017,902 \$11,250 \$10,81,232 (13) (13) (13) (13) (13) (13) (13) (13)	11,017,902 \$1 (35) 11,017,867 \$1	1,051,290 \$ 1 (35) 1,051,255 \$ 1	11,813,325 (34) 11,813,291
		Revised Adjustment RBA Adjustment Recorded RBA Adjustment	\$ 577,087 \$ 577,0 5 2 \$ 35 \$	1 565,985 \$ 565,981 1 34 \$	608,253 \$ 608,215 \$ 35 \$	597,457 \$ 597,457 \$ 597,422 \$	615,283 \$ 615,248 35 \$	438,335 \$ 438,300 35	483,426 \$ 483,391 \$35	360,077 \$ 360,042 \$35	200,818 S 200,718 S 535	294,864 \$ 294,829 \$35	166,396 \$ 166,361 \$35	536,394 \$ 536,359 \$ 535,359	584,349 \$ 584,314 \$35	491,680 491,648 \$34
Note [1] In connection with method of revenu and the following income Tar Fact	Note [1] connection with Decision and Order No. 31900 method of revenue balancing account (R&A) re and the following income tax factor is used in Im noome Tax Factor (111-14x rate) 1.636929121	Note [1] In concretion with Decksion and Over No. 31908 on Schedule A of the Decoupting Investigation, itsued on February 7, 2014, the Company received approval on April 28, 2014 from the Internal Revenue Service to change its tar treatment of RBA revenues from the book accrual method of revenue balancing account (RBA) revenue to recognition the account of the Decouption that are adjusted and revenues are adjusted approval on April 28, 2014, them the Internal Revenue Service to change its tar treatment of RBA revenues from the book accrual and the following income tar factor (TRA) revenue to account (RBA) revenue to a second (RBA) revenues the adjusted and revenues are adjusted affective January 1, 2014. Accordingly, starting with May 2014, Interest is calculated based on a net-of-income tar RBA balance. Into the tar table of the target based on a net-of-income tar RBA balance. Into the tar table of the target based on a net-of-income tar RBA balance.	estigation, issuec trod based on w	l on February 7. Ion rates are ad	2014, the Com justed and rever	oany received a nues are collect	pproval on Apri ted, effective Ja	ll 28, 2014 trom muary 1, 2014,	the Internel Re Accordingly, st	verue Service arting with May	io change its ta: 2014, Interest f	r breatment of f	RBA revenues fr Ised on a net-of-	rom the book ac income tax RBV	cruel A balance,	
					,											

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Note (2) Totals may not add exactly due to rounding.

Note [3] Manual education was made August 2016 to increase the RBA by \$1,703. The castamer's home was completed in January 2002; which is reflected on the Hawaii County completed building permit. The Company was notified by Hawaii County, that this customer's permit was compared dated dated dated daters 2002. When a permit is doeed due to completed the castamer's billing from January 2002 and aduated the RBA accordingly. , HELCO-WP-B-004 PAGE 2 OF 4

HAWAII ELECTRIC URHT COMPANY, INC. HAWAII ELECTRIC UGHT COMPANY, INC. MONTHLY FINANCIAL REPORT August 2016 - Change of Rate Schedule from G to R

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REVENUE BALANCING ACCOUNT - REVENUE TRACKER

			Aug-14	Sop-14	<u>0ct-14</u>	Nov-14	Dec-14	<u>Jan-15</u>	Feb-15	<u>Mar-15</u>	Apr-15	<u>May-15</u>	<u>Jun-15</u>	Jui-15	<u>Aug-15</u>
5			\$ 12,589,609					-	\$ 10,781,092 \$		\$ 11,393,492 \$	-	11,642,774 \$		\$ 12,716,008
2 2	. 11-17	Recorded Adjusted Revenue Turnet vs. Actural Revenue	11,773,976 115,8318	11,244,707 704,178	11,753,958	11,162,269	11,407,623 697 962	10,995,901 824,647	10,403,615	11,426,429	202.652	770.143	11,065,050	214,235	12,404,195 311,813
		Reversal of Previous Year Accrual	(653,039)	(624,827)	(653.264)	(616,455)	(625,597)	(600,503)	(566.216)	(615,975)	(603.738)	(608,585)	(484,725)	(569,932)	(656,959)
	L4 • L3	Nei RBA Change	162, 792	79,301	(159.218)	(14,943)	72,365	224,344	(188,739)	(138,205)	(401,056)	161,558	92,969	(475,078)	(387,145)
		Adustment(s) to Begining Balance	1,751		5,060	4,613		8,719		(01:0)					
5									110 012 2			1 000 1		001 MAR 1	
5 5		Begmung KBA Batance	7 446 474	09/'969''	120,000,1	167 614 /	1.410,601	100,400,1	108,041,1	CC/ TOC' /	108'85'8' L	5 10 0 0 0 0 1	07, 21, 7	641'675'/	100,000,0
5 5	L0 7 L3 0 6 4 7) 4 7 4 (1)	End Balance Berote Interest	100 101	100,050,1	505'045'1	1,030,540	106'205'1	VCL 07.1 /	CI2,2CC,1	421 D41	500'0fn'y	105,212,401	1 11 10	121, MC0,0 -	0,476,700 4,078,007
		beimte subjet to mercer Interet		BUF CI	10.260	C17'52'51	101 01	109 21	128.01	17.407	828 11	10 JOC 11	800.01	11 733	11.039
~	01 • LD	Ending RBA Balance	7,450,760	7,550,467	7,408,678	7,410,601	7,495,200	7,740,951	7,564,664	7,439,951	7,050,843	7,224,200	7,328,199	6,855,854	6,489,747
		Definitional Devices 16 2010 (¢ 6 838 1 1 0 0	2 007 447	A 010 100 1	\$ 020 CUE 3	9 961 948 8	7 1.00 E07 6	. 6010410	4 711 M	3 876 191 7 3	3 300 CF5 8	0 611 778 0	102.021.0	6 773 663
		ster Fortion 18670302	570,614 5		585,349	607,642	619,963	632,564	645,215 \$				-	105,156	716,195
		Total	\$ 7,458,760 \$	7,550,487	\$ 7,408,678	\$ 7,410,601 \$	\$ 7,495,206 \$	\$ 7,740,951	\$ 7.564.664 \$	7.439,951	\$ 7.050.843 \$	7.224,200	7,329,199 \$	6,865,654	6.489.747
		revenues charged in Incorrect period adjustment	2	8	39	*	39	8	93	2	36	37	39	39	39
		tax rote	91.115%	91.115%	91.115%	91.115%	91.115%	91.115%	91.115%	91.115%	91.115%	91,115%	91.115%	91.115%	91.115%
		net of tax	3 35 3	35 3	35 5	33 \$6	3 32	S 50 .	35 \$	8	5 92 5	\$ 10	32 5	32	35
		fevenue tax adjustment	.	~	•	•	n	-	•	-	s r .	•		.	•
		Ferget vs Actual Difference;												•	
				\$ 11,244,832 \$	\$11,753,993 \$11,162,304	11,162,304 \$	\$ 11,407,658 \$	\$10,995,936 \$10,403,650	10,403,650 \$	11,426,464	\$ 11,190,874 \$	\$ 266,061,11	11,065,115 \$	12,214,270	5 12,404,230
		ng error	(35)	_		(35)	(35)		(35)	8	(94)	(m)	-	(cc)	(c)
		Revised Revenues	\$ 926'022'11 \$	1,978 \$ 11,244,797 \$	\$ 11,753,850 \$	\$11,162,269 \$11,407,623 \$10,995,001	11,407,623 5		\$ 10,403,615 \$	11,426,429	\$ 11,190,840 \$	11,150,298 \$	11,065,080 \$	12,214,235	12,404,195
		Rovised Adjustment DBA Adjustment Decorded	5 815,831 5 815,766	704,126 \$ 704,093	494,046 \$	601,512 \$	697,962 \$	824,847 \$ 824,847 \$	377,477 \$	479,770	\$ 202,652 \$ 202,652 \$	770,143 \$	577,694 \$	214,854 \$	C18/11E 1
			5 35 5	35 3	32 32	35 5	35 \$	35 5	15 51	35	34 \$	3 10	35 5	35 1	32
In conne	cetion with Declaion and Or.	Note [1] In connection with Decision and Order No. 31909 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 its change its har treatment of RBA revenues from the book because	stigation, issued	on February 7.	2014, the Com	pany received a	pproval on Apr	1 28, 2014 from	n the Internal Re	venue Service to	change its tax tr	eatment of RBA rev	enues trom the boo	k accrual	
and the	memore of revenue balancing account (Nork) revenue record and the following income tax factor is used in the calculation.	memore or revenue estimation way could be explored on the response of which release and revenues are collected, enterine January 1, 2014. Accounty, starting with may could be calculated based on a net or income by risk basines,	10d DASOC ON WI	ien rates are ad	justed and reve	nues are collect	ied, enective Ja	, 2014, 2014,	Accordingly, BI	aring with May 2	014, mieresi is c	alcuared based on	a net-ot-moome tax	KBA batance,	
Income	Income Tar Factor (1/1-tar rote) 1.636929121	1.636929121													
Note [2] Totals r	Note (2) Totals may not add execty due to rounding.	<u>ດເມດີກິດ.</u>													
Note [3] A manut completi odjusted	Note [3] A manual adjustment was mode Au complete and dosed January 2002, odjusted the RBA accordingly.	Note [3] A manual adjustment was mode August 2016 to increase the RBA by 51,703. The customer's t complete and dased Januery 2002, When a permit is dosed due to completion the customer is odjusted the RBA, accordingly.	omer's home wa tomer is changed	s completed in . I to riste Schedt	January 2002; v de R instead of	rhich is reflecter rote Schedule (d on the Hawaii 3. resulting in Ic	i County compl	eted building per sed on this, Aug	irrit. The Compa ust 2016, the Cor	ny was noùñad t rpany re-calcula	y Hawnii County, th ted the customer'a I	some was completed in January 2002; which is reflected on the Hawaï County completed building perrit). The Company was notified by Hawaï County, that this customer's perrit was changed to rete Schedule R instead of reto Schedule G, resuting in lower rotes. Based on this, August 2016, the Company re-calculated the customer's billing from January 2002 and	tsmit was 2002 and	

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HELCO-WP-B-004 PAGE 3 OF 4

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HELCO-WP-B-004 HAWAII ELECTRIC LIGHT COMPANY, INC. MONTHLY FINANCIAL REPORT August 2016 - Change af Rate Schedule from G to R

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REVENUE BALANCING ACCOUNT - REVENUE TRACKER

							.898 .964 .34 \$ 1,703 JE #H000068873
				د	1,568 1,703 165	(1,703)	E07,1
<u>May-16</u>	12,040,414 11,611,416 428,995 (639,573) (210,575)		3,505,359 3,294,784 2,077,104 5,625 3,300,409	2,510,635 789,774 3,300,409	37 \$ 1,868 91,115% 34 \$ 1,703 3 \$ 165	11,611,450 (1,703) (1,611,416	428,898 428,964 34 \$
<u>Aer-16</u>	11.508.563 \$ 12.040.414 11.431.860 11.611.416 76.603 428.893 (632.139) (639.573 (535.536) (519.573		4,054,646 3,499,110 2,307,295 6,249 3,505,359	2,721,210 \$ 784,149 \$ 3,505,359 \$	17 81,115% 34 5 24 5 2 5	11.431,994 \$ (34) 5 030,154,11	76,603 \$ 76,563 \$ 76,569 \$
<u>Mar-16</u>	12,171,502 11,802,266 12,227,848 11,037,803 12,026,039 512,026,036 12,223,845 12,075,001 11,643,864 11,717,502 11,520,645 10,230,865 11,725,85 266,391 12,520,863 11,570,855 11,520,855 11,570,855 10,500,855 266,391 10,520,810 16,520,810 16,520,810 16,512 10,516 1362,460 (413,167) (219,640) (447,459) (254,101) (10,531,102)	ويتعاريبها والمحافظة والمحافظ	4,405,754 4,047,653 2,582,093 6,993 4,054,648	\$ 3,278,745 \$ \$ 777,900 \$ \$ 4,054,646 \$	76 76 78511,19 8 25 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8	\$ 11,740,743 \$ 12,075,236 \$ 11,643,993 \$ 11,71,628 \$ 11,520,530 \$ 10,930,100 \$ 11,736,019 \$ 11,431,994 \$ 11,611,450 (35) (35) (35) (35) (35) (35) (35) (35)	5 290,054 5 290,024 5
Fab-16	\$ 10,809,090 10,938,065 (45,167) (599,292) (647,459)		5,045,401 4,397,942 2,884,469 7,812 4,405,754	4,641,465 \$ 4,501,946 \$ 4,202,306 \$ 3,634,847 745,777 \$ 754,580 \$ 783,095 \$ 770,907 5,307,263 \$ 5,266,526 \$ 5,045,401 \$ 4,405,754	30 1,115 3 35 35 35 35	\$ 10.938,100 (35) \$ 10.938,065	\$ (48,167) \$ (48,202) \$ (48,202)
Jan-16	\$ 11.839.783 11.520.495 419.298 (538.998) (538.998) (219.640)		5,256,526 5,036,886 3,144,123 8,515 5,045,401	\$ 4,282,306 \$ 763,095 \$ 5,045,401	38 91,115% 5 35 5 35	\$ 11,520,530 (35) \$ 11,520,495	\$ 419,298 \$ 419,263 \$ 5 35 \$
Dec-15	\$ 12,227,848 11,717,593 510,255 (656,372) (146,117)	6.577	5,393,840 5,247,723 3,250,465 8,803 5,256,528	4,641,466 \$ 4,501,946 745,777 \$ 754,580 5,387,263 \$ 5,256,526	90 11/10 20 20 20 20 20 20 20 20 20 20 20 20 20	\$ 11,717,626 (35) \$ 11,717,593	\$ 510,255 \$ 510,220 \$ 315 \$
<u>Nov-15</u>	11,882,296 11,643,956 238,338 (651,915) (413,580)	55 6.577	5,791,603 5,378,023 3,411,762 9,240 5,367,263		86 91,119 35 35	11,643,993 (35) 11,643,958	238,338 \$ 238,303 35 \$
<u>Oct-15</u>	\$ 12,075,202 12,075,201 296,391 (679,031) (382,640)	1,260	8,164,359 5,781,720 3,648,930 9,828 5,791,548	\$ 5,055,066 \$ \$ 736,482 \$ \$ 5,791,548 \$	391,115% 91,115% 355 355	12.075,236 5 (35) 12.075,201 5	296,391 \$ 296,356 35 \$
Sep-15	\$ 12,069,162 11,740,708 328,454 (665,561) (337,107)		6,488,747 6,152,640 3,861,617 10,459 6,163,099	5 5,436,445 3 7 726,654 3 5 6,163,099 3	8511.19 81.115 <u>%</u> 1 35 1	5 11 740 743 9 (35) 5 11 740 708 9	5 320,454 5 326,419 5 35 5 5 5
	Manthy Target Rovervo Target vs. Actuated Revenue Target vs. Actual Recenue Reversal of Perdust Year Accrust " Net RBA Change	Adjustment(s) to Beginning Balance	Beginning RBA Batance End Balance Bečurc Interest Batnee Subject to Interest Interest Ending RBA Balance	Principal Portion 18670301 Interest Portion 18670302 Total	revenues charged in incorrect period adjustment la via net of has revenue tax adjustment	Tarigat va Actual Difference: Per orginal calcutation Adjustment for obling error Revised Rovenues	Revised Adjustment RBA Adjustment Recorded RBA Adjustment
	ព• អ ព		L8 + L5 L8 + L5 L8 × 3.25% + 12 L7 + L9				
	22228		27225				

Nate [1]

In connection with Decision and Order No. 31908 on Schedule A of the Decoupling Investigation, issued on February 7, 2014, the Company received sparvation April 28, 2014 from the Internal Revenue Service to change its tar teatment of RBA revenues from the book accuult method of revenue based on Service to change its tar teatment of RBA revenues from the book tactual providence of revenue based operations are contented based on when rates are adjusted and revenues are collected, effective January 1, 2014. Accordingly, tariting with May 2014, interest is calculated based on a net-of-income tactar Revenues are collected, effective January 1, 2014. Accordingly, tariting with May 2014, interest is calculated based on a net-of-income tactar Revenues are collected, effective January 1, 2014. Accordingly, tariting with May 2014, interest is calculated based on a net-of-income tactar Revenues are collected, effective January 1, 2014. Accordingly, tariting with May 2014, interest is calculated based on a net-of-income free and a factor in 1.4 factor is 1, 5329372.

Note [2] Totats may not add exactly due to rounding.

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Note [3] A manual adjustment was made August 2016 to Increase the RBA by \$1,703. The castome's home was completed in January 2002, which is reflected on the Hawaii County completed building permit. The Company was notified by Hawaii County, that this customer's permit was completed in January 2002, which is reflected on the Hawaii County completed building permit. The Company was notified by Hawaii County, that this customer's permit was completed in January 2002, which is reflected on the Hawaii County completed building permit. The Company was notified by Hawaii County, that this customer's permit was completed building to the company and closed the to company and the to complete the customer's billing from January 2002 and adjusted the RBA according).

HELCO-WP-B-004 PAGE 4 OF 4

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HELCO-WP-8-005 HAWAII ELECTRIC LIGHT COMPANY, INC. MONTHLY FINANCIAL REPORT Schedule J Incorrect Consumptive Value

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REVENUE BALANCING ACCOUNT - REVENUE TRACKER

														ŀ		[
				Aug-13	Sep-13	0ct-13	Nov-13	Dec-13	Jan-14	Fob-14	Mar-14	Apr-14	May-14	F-Inf	<u>11-14</u>	Aug-14
55		Monthly Target Revenue Deveded Advised Devenue	%	12,203,067 \$	11,561,870 \$	11,671,762	5 11,402,413 40.063.000	817,233,718	\$ 11,457,630	\$10,449,911 \$11,540,457 10147 860 11 244 170		\$ 11,043,499 \$ 10,475,786	\$ 11,554,261 \$	\$ 11,635,604 \$	5 12,304,971 5 11 611 698	\$ 12,569,809 11 777 587
בנ	1-12	Target ve. Actual Revenue	-	000,000	598,751	16.3319	019'508'n1	484,571	361.220	302,051	296,007	167,713		565,792	493,273	017,217
3		Reversal of Previous Year Accrual		(378,158)	(360,426)	(369,003)	(359,349)	(5167,943)	(359,759)	(325,767)	(359,068)	(349,480)	(337,105)	(605,868)	(654,645)	(653,039)
5	[4+[3	Nei RBA Change		230,642	238,323	247,328	60,084	116,628	1,461	(23.716)	(83,001)	(181,767)	180,399	(20,074)	(161,372)	164,175
		Adaginents) to Begining Balance			1,505		14,550	(18,7,78)	16,077		5,265	(9,446)	(45,763)	1,910		167.1
9		Beainning RBA Batance	-	6,353,076	6.624.371	6.896.412	064,691,7	7,290,643	7,460,334	7,499,100	7,518,085	7,465,014	7,250.350	7,452,825	7,445,065	7,297,629
5	16+15	End Balance Before Interest	-	6,584,520	6,662,694	7,143,740	7,273,494	7,407,511	7,461,795	7,475,384	7,455,084	7,264,147	7.438,757	7,432,751	7,283,693	7,461,807
5	(1) + 5 + (1)	Balance Subject to Interest	Ī	6,469,199	6,743,533	7,020,076	7,233,462	7,349,197	7,461,065	7,487,242	7,486,565	7, 375, 031	4,489,234	4,546,799	4 498 899	4,508,270
5	L8 x 3,25% + 12	Inter eat		32,346	33.718	35,100	36,167	36,746	37,305	37.438	20,278	19.974	12,156	12,314	12,185	12,210
5	U+U	Ending RBA Balance	-	6,616,066	6,696,412	7,178,840	7,309,661	7,444,257	7,499,100	7,512,620	7,475,360	7,304,121	7,450,915	7,445,065	7,295,878	7.474,017
		Principal Portion 18670301	•	6,306,053 \$	6,551,486 5	6.798.814	5 6.893.433	\$ 6,992,439	\$ 7,009,977	\$ 6,936,261	6,928,525	6,737,312 \$	8 6,916,799 \$	6,898,635 \$	6,737,263	6,903,192
		Interest Portion 18670302	•	310,013 \$	344,926	360,026	5 418,228	\$ 451,818	\$ 489,123	\$ 526,559 1	546,835	_	5 311,116 \$	546,430 \$		570,825
		Total	*	6,616,665 \$	6,896,412	7,178,840	199'605'1 \$	\$ 7,444,257	\$ 7,499,100	\$ 7,512,820	1,475,360	121 101 121	\$ 7,450,915 \$	7,445,065 \$	7,295,878	5 7,474,017
		revenues charged in incorrect period adjustment		639	1,459	1,189	1.222	1,295	1,293	29C, 1	196,1	1,484	1,257	1,622	1.786	1,560
		tax rato		91.115%	91.115 %	91.115%	91.115%	91,115%	91,115%	91.115%	91 115%	01.115%	91.15%	91,115%	91.115%	91,115%
		net of tax	*	502 \$	1,329 3	1,083	\$ 1,113	5 1,160	1,178	\$ 1,268 4	1,256	1,352 \$	1,145 5	5 829'1	1,627	1,421
		revenue tax adjustment	•	21 \$	021	8	501	s 115	SII 5	2 124 3	121	132 3	112 5	2		67L 9
		Target vs Actual Difference:							,		:					
		Per original calculation	-	11,594,849 S	10,954,445	5 11,256,514 5	\$ 10,964,113 \$		5 11.097.548 /1 174	11,250,227 \$11,097,568 \$10,149,128 \$11,245,628 \$10,877,138 24 - 40 - 24 - 74 - 74 - 74 - 74 - 74 - 74 - 74	11,245,628 1 /1 245,628 1		\$11,017,902 \$11,051,290 \$ 11,013,325 \$11,774,013 21,1457 (1428) 71,051,290 \$ 11,013,325	11,051,290 5	11.013.325	511,774,013 /1 4211
		Revised Revenues	5	11,594,267 \$	10,963,119 5	11,255,431	\$ 10.963,000	10.001/102 11.254201 2 10.002000 2 11.2041/12 2010 2101/1200 2112/1200 2101/1200 2112/1200 2112/1200 2112/1200 10.001/112 11.254201 2 10.002000 2 11.2041/12 012/1200 2112/1200 2112/1200 2100/1200 2112/1200 2000/1200 2112/12	5 11 096 410	\$ 10,147,850 \$	11,244,370	10.675.768 \$	11.016.757 \$	11.049.812 \$	11,011,650	11,772,592
		Revised Adjustment	S	608,800 \$	598,751 \$	618,331	519,413	\$ 484,571	361,220	\$ 302,051 \$	296.067	167.713 5	5 37,504 5	585,792 \$	493,273	117,217
		RBA Adjustment Recorded		606,218	597,422	615,248	438,300	483,391	360,042	300,783	294,829	166,361	536,359	584,314	491,646	815,796
		RBA Adjustment	**	582 \$	1,329 \$	C90'I	511.1	1,160	8/1'1 S	2 1,268 3	62.1	1,352 5	1,145 5	5 9/9'1	124'1	17471
			•				;	,	1	5					39, 6,	016 67 8
		revised mieresi Interesi Recorded	•	32,345	11/22	35,088	36,149	36,722	37,276	37,400	20,253	19,947	12,140	12,294		
		Interest Adjustment	••	5 1	\$	12	5 10	\$ 24	R S	36 3	23 5	27 \$	18 5	20 \$	54 3	26
Note [1]																•
	and the second se	the store is Saturd to Battation A of the Battation Second							ametal and and	Contraction Canada	di anondo of es	the the thread	at DDA to the	a tran the beel		
method .	repon wan Decasion and C of revenue balancing acc	in conversion with Destandance of the recording investigation is also in the recently of the recording intervent of the recording in the recording intervent of the recording intervent	noungurer	, issued on re id on when rat	toruary /, zuis,	the Company re- and revenues of	o collected, effec	the January 1, 20	zom ure interna 114. Accordingi	y, starting with !	kay 2014, inter-	s lax vecunent. ssi is calculated	di ricki revenue I based on a net	e Juli de uou	RBA	
belance	belance, and the following income tax factor is use	belance, and the following income tax factor is used in the calculation.														

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Income Tax Factor (1/1-tax rate) 1.636929121

Note [2] Totals may not add exectly due to rounding.

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Note [3] A manual adjustment was made September 2016 to increase the RBA by 554,574. In compliance with Transmittal 13-10 Modified Revenue Balancing Account Provision Tarlif, Interest in the emount of 51,682 was also calculated on this adjuatment as corrections to the RBA balance ecceeded 550,000. Three maters adjuated to the automore in automore in July 2013 but billing instructions were not updated for how we have made september 2016 to increase the RBA by 554,574. In compliance with Transmittal 13-10 Modified Revenue Balancing Account Provision Tarlif, Interest in the emount of 51,682 was also calculated on this adjuatment as corrections to the RBA balance ecceeded 550,000. Three maters adjaced to the customer. As a result, the Billing Instructions were not updated to the Mature at the adjuatment is account: Invever the customer were not by 2013 but by the MM usage of the free meters. Based on bis, September 2016, the Company re-calculated the customer's billing thom JN 2013 and adjusted the RBA eccentries account: Invever the customer who owns the main meter was overbilled by the MM usage of the free meters. Based on bis, September 2016, the Company re-calculated the customer's bulked from JN 2013 and adjusted the RBA eccentrical parts and the scalard shown and the customer's bulked the customer's bulked the customer's bulked the customer's bulked to an JN 2013 and adjusted the RBA eccentrical parts and the customer's balance account of the company re-calculated the customer's balance account to the customer's bulked from JN 2013 and adjusted the RBA eccentrical parts and the customer's account: Invever the customer who owns the main meter was overbulked by the MM usage of the there meters. Based on bis, September 2016, the Company re-calculated the customer's bulked from JN 2013 and adjusted the RBA eccentrical parts and the scalard stated and the customer's balance account of the customer's balance account of the customer's balance account of the customere's account account of the customere's balance acco

HELCO-WP-B-005 PAGE I OF 3

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HELCO-WP-8-005 HAWAJI ELECTRIC LIGHT COMPANY, INC. MONTHLY FINANCIAL REPORT Scheduls J Incorrect Consumptive Vabue

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REVENUE BALANCING ACCOUNT - REVENUE TRACKER

			Sep-14	<u>0ct-14</u>	Nov-14	Doc-14	<u>Jan-15</u>	Feb-15	<u>Mar-15</u>	Apr-15	<u>Mav-15</u>	<u>Jun-15</u>	<u>51-inf</u>	<u>Aun-15</u>	<u>Sep-15</u>
53		Monthly Target Revenue Recorded Adjusted Revenue	\$ 11,948,925 11,243,306	\$ 12,248,004 \$	\$ 11.763.781 \$	\$ 12,105,565 \$	5 847,028,113 COC,499,01	\$ 10,781,092 \$ 10,402,046	11,906,199	\$ 11,393,492 \$ 11,189,507	11,920,441 S 11,148,850	11,642,774 \$ 11,063,536	12,429,089	\$ 12,716,008 \$ 12,402,478	\$ 12,069,162 11,739,169
3:	t1-L2	Target ve. Actual Revenue	705,619	495,554	602,998	699,563	026,445	379,046	431,156	203,905	771,591	579,236	218,474	313,530	129,923
33	L1 • L1	Reverses of Previous Tear Accual . Net RBA Change	(724/02) 90,792	(017,721) (017,721)	(13,457) (13,457)	(/65°670)	225,942	(187,170) (187,170)	(618'7CIO)	(1399,753)	(cocioco) 163,000	(404,/23) 84,513	(754'528) (754'528)	(385,429)	(195,568) (195,568)
		Adjustment(s) to Beginning Balance		5,060	4,613		3.719		(i) 109)		·····				
9		Bedinning RBA Balance	7.474.017	7.572.302	7,431,603	169,069,7	7.525.471	7.764.051	7.568.463	7.456.088	7.070.357	7,253,209	7.359,801	6,858,128	6,523,793
5	L6 + L5	End Balance Before Interest	7,554,809	7 414 592	7,418,146	7.504,397	7,751,413	7,576,881	7,453,644	7,066,335	7,241,363	227,742,7	6,656,343	6,512,699	6,188,225
9 :	(L8 + L7) + 2 + [1]	Balance Subject to Interest	4,590,555	4 577 747	4,535,856	4,561,843	4,686,324	4,665,888	4, 594, 612	4,438,929	4, 373, 958	4,459,854	4.351.465	4,096,337	3,882,886
25	L7 + L9	interest Ending RBA Balance	7,567,242	7,426,990	7,430,431	7,516,752	12,011	7,589,572	7,466,088	720,21	7,253,209	8/0/71 108'85E'2	6,690,125	6,523,793	6,193,741
		Principal Portion 18670301	5 0.903.934	\$ 6,031,334 \$	6.822.490 \$	\$ 6,696,456 \$	211,161,7	6.943,947 \$	6,008,019	1 6.408,266 \$	6,571,272 \$	6,665,785 \$	6,192,327	5,806,893 \$	5,471,330
		Interest Portion 16670302	\$ 583,258	\$ 595,656 \$			632,934	645,625 \$		\$ 670,091 \$	681,837 \$	694,016 \$	705,801	2 716,095 5	114'121
		Total	\$ 7,567,242	\$ 7,426,990	11110111	\$ 7.516.752	\$ 7,764,051	\$ 7,509,572 \$	7,466,088	\$ 7.078,357 \$	7,253,209 \$	7,359,801 \$	6,698,128	6,523,793	6,123,741
		revenues charged in incorrect period adjustment	1,675	1,693	1,669	1,795	1,792	1,760	1.560	1,500	1,627	1,733	1,016	1,923	1,726
		tax rate	91,115%	91.115%	91,115%	B1 115%	91.115%	91,115%	91.115%	B1.115%	91.115W	91.115%	91.115%	91.115%	91.115%
		net of tax	S 1,526	\$ 1,543 \$	1.521 \$	1,636 \$	1,633	1,604 5	1.421	\$ 196.1 \$	1,482 \$	1,579 5	1.655 1	1,752 5	1,574
		revenue tax adjustment	\$ 149	5 50 0	148 5	159 3	159	: 156 \$	139	133 \$	145 \$	154 \$	161	171 3	151
		Ternel ve Artual Difference.					•								
		Per original calculation	\$ 11,244,832	\$ 11,244,832 \$ 11,753,993 \$ 11,162,304 \$ 11,407,655 \$ 10,995,938 \$ 10,403,650 \$	11,162,304 \$	11,407,658 \$	10,995,936	10,403,650 \$	11,426,464	11,426,464 \$ 11,190,674 \$	11,150,332 \$	11,065,115 \$	12,214,270 \$ 12,404,230		\$ 11,740,743
		Adjustment for billing error	(1,526)	(1,543)	(1,521)	(1,636)	(1.633)	(1,604)	(1.421)	(1,367)	(1,482)	(1,579)	(1,655)	(1,752)	(1,574)
		Revised Revenues	\$ 11,243,306 \$ 11,752,450 \$ 11,160,783 \$ 11,406,022 \$ 10,894,303 \$ 10,402,046 \$	\$ 11,752,450	11,160,783 \$	11,406,022 \$	10,994,303	10,402,045 \$	11,425,043 511,189,507	11,189,507 \$	11 145 550 \$	11,063,538 \$	12,212,615	\$ 12,402,476 \$	11,739,169
		Revised Adjustment RBA Adjustment Recorded	5 705,619 704,093	5 495,554 3 494.011	602,598 \$ 601,477	699,563 \$	526,445 5 524,512	379,046 \$	481,156	5 203,985 5 202,616	771,591 5	579,230 \$	216,474 5	313,530 \$	329,993 320,419
		RBA Adjustment	526	2 1,543 5	1,521 \$	1,636 \$	1,633 1	1,604 5	1,421	1,367 \$	1,482 \$	1,579 \$	1,655 5	1,752 \$	1,574
-		Revised interest	Ę	* AOL C1 *	1 20C CI	\$ 335 CI	3 NU9 CI	109 (1		1 100 11	11 146 5	3 920 21	11 205 0	5 760 11	10 5 I B
		Interest Recorded		12,367	12,251		12,589	12,649	12,400		10,797	12.027	2	11,037	10,456
		Interest Adjustment	\$ 20	\$ 16 \$	ž	\$ \$	39 3	42 \$	**	\$ 1 8	48 \$	52 \$	5	57 \$	60
Note [1]															
th conne method	xction with Decision and (of revenue balancing acc	to an event of the second of the second 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 teatment of RBA tevenues from the book accural method based on the second of tevenue based of tevenue based on the second of tevenue based of teven	stigation, issued vod based on wh	an February 7, 2 en rates ara adj	014, the Comp isted and reven	any received ap ness are collecte	oproval on Apri ad, affective Ja	128, 2014 from th	ie Internal Rever coordingly, starti	ue Service to cha ng with May 2014	mge its tax treatmer , interest is calculat	tt of RBA revenues ed based on a net-o	from the book ac si-income tax RB/	crual A batance.	
and the Income	and the following income tax factor is used in the c income Tox Factor (1/1+tax rate) 1.636929121	and the following income lax factor is used in the calculation. (Income Tex Fector (1/1.1ax rate) 1.636329121	-												

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Note [2] Totals may not add exactly due to rounding.

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HELCO-WP-B-005 PAGE 2 OF 3

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REVENUE BALANCING ACCOUNT - REVENUE TRACKER REVENUE BALANCING ACCOUNT - REVENUE TRACKER UL2 Rented Again Revenue UL2 Reverse lot Perioda Terrana Reverse lot Perioda Stanca Reverse lot Perioda Stanca Reverse lot be herest UL2 Revenue Batance Balance Balance Balance Balance Balance Balance Balance Balance Balance Balance Dhobal Perioda 18570301 Interest Dhobal Perioda 18570301 Interest Revenue In 18770301 Interest Revenue In 18770301 Interest Revenue In 18770301 Interest Revenue Interest Revenue In 18770301 Interest Revenue Interest Revenue Interest Re	Oct-15 Oct-15 237,553 527,553 72,371,552 527,553 72,071,552 527,553 72,071,552 527,353 9,818 5,628,511 9,818 5,528,511 9,818 5,528,511 9,828 5,1235 9,137 53 9,137 53 9,135 5 9,135 5 9,135 5 9,135 5 9,135 5 9,135 5 9,135 5 9,135 5 9,135 5 9,135 5 9,135 5 9,156 5 9,156 5 9,156 5 9,156 5 13,157 5 13,153 5 13,153 5 13,153 5 14,153 5 15,155 5	Nov-15 Dec-15 Jan-16 Fob-16 11.882.206 11.2272.848 511.039.793 510.893.686 11.882.206 11.21.997 11.21.0973 10.304.566 11.882.206 11.21.19 10.304.566 500.456 11.892.206 11.21.997 10.304.301 10.304.303 11.892.206 11.21.19 10.304.301 10.304.301 5.507.103 55.87.30 50.304.301 59.80.303 5.410.37 65.977 51.91.91 (64.504) 5.410.37 5.307.103 50.904 441.557 5.420.213 5.307.103 5.007.529 4.40.552 5.420.213 5.307.103 5.007.529 4.40.552 5.420.213 5.307.103 5.007.529 4.40.552 5.420.213 5.307.103 5.007.529 4.40.555 7.46.657 7.527.525 7.61.93 5.007.529 6.43.520 11.64.11.54 11.54 11.54 1.64.307.529 4.11.56 5.11.556 1.1554 1.1434	Dec-15 T 212.277.848 5.112.277.848 117.15.972 5.12.277.848 117.15.972 5.12.277.848 5.11.277.848 5.11.875 5.268.294 3.274.755 5.268.294 3.274.755 5.268.294 3.274.755 5.275.355 5.91.153 5.269.7.163 5.91.157 5.269.7.163 5.91.157 5.11.77528 5.11.77528 5.11.77528 5.11.77528 5.11.77528 5.11.77528 5.11.77528 5.11.77528 5.11.77528 5.11.2775 5.11.77528 5.11.77528 5.11.77528 5.11.2795 5.11.77528 5.11.2795 5.11.77528 5.11.6590 5.11.6590 5.51.0575 5.11.77528 5.51.0575 5.11.77528 5.51.0575 5.11.77528 5.51.0575 5.11.77528 5.51.0575 5.11.77528 5.51.0575 5.11.77528 5.51.0575 5.11.77528 <t< th=""><th>Jan-16 Fab-16 Mat-16 Jan-16 Fab-16 Mat-16 11,319,33 10,309,568 11,74,316 11,319,33 10,309,568 12,74,316 11,319,33 10,309,568 12,74,316 11,319,33 10,309,568 12,74,316 12,313,13 (549,582) (361,155) (531,313) (549,582) (330,415) 3,304 4,41,568 4,03,030 3,304 4,41,563 4,100,132 3,305,529 4,449,552 4,100,132 3,41,105 3,171,935 3,171,935 7,1003 3,507,529 5,449,552 3,100,132 1,031,00 5,617,539 3,171,935 3,173,950 1,133,00 5,11,516 3,171,935 3,173,950 1,133,00 5,11,516 3,173,935 3,100 3,1135,00 5,11,516 3,173,935 3,103 3,1135,00 5,11,515 3,103,936,100 1,1134 1,133,00 5,11,516 3,153,35 3,100 3,1</th><th>Feb-16 Feb-16 10,859,898 10,859,898 10,856,560 (845,560) (841,660) (841,660) 2,10,724 7,853 4,441,660 (842,552) 3,677,559 5,3677,559 4,441,660 1,554 4,441,660 1,554 5,367,556 1,554 5,17,559 1,554 5,17,559 5,1554 5,17,559 5,1554 5,17,559 5,1554 5,1,193 5,1554 5,1,193 5,1554 5,1,193 5,1554 5,1,193 5,1556 5,1,1,193 5,1556 5,1,1,1,1,1,1,193 5,1556 5,1,1,1,1,1,1,1,1,154 5,1534 5,1,1,1,1,1,1,1,1,1,154 5,1534 5,1,1,1,1,1,1,1,1,153 5,1,1534 5,1,1,1,1,1,1,1,1,153 5,1,154 5,1,1,1,1,1,1,1,1,1,154 5,1,1544 5,1,1,1,1,1,1,1,154 5,1,154 5,1,1,1,1,1,1,1,153 5,1,1544 5,1,1,1,1,1,1,11,14 <t< th=""><th>Schedule J Incorrect Consumptive Value <u>197-16</u> Feb-15 Mar-15 Mar-15 (1392/33 510,039,039 512,025,033 5 (1393/33) (939,539 512,056,033 5 (1391,31) (939,539 512,056,03 5 (338,339) (545,660) (356,467) (349,562 4,441,563 (339,348 5 5,078,043 5,711,93 1,716,013 5 5,078,043 5,711,93 1,716,013 5 1,109 5,711,93 1,711,93 1,716,019 5 1,109 1,709 1,1054 1,1154 1,109 1,109 1,109 1,1154 1,109 1,109 1,109 1,1154 1,109 1,109 1,109 1,1108 1,1108 1,109 1,109 1,109 1,109 1,1108 1,109 1,109 1,109 1,109 1,100 1,103 1,109 1,109 1,109 1,1108 1,1108 1,109 1,109 1,109 1,109 1,109 1 1,109 1,109 1,109 1,109 1,100 1,103 1,109 1,109 1,109 1,109 1,100 1 1,109 1,109 1,109 1,109 1,100 1 1,109 1,109 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<u>Mav-16</u> 1:000,414 1:000,057 1:000,057 1:000,057 1:000,057 1:000,057 1:000,057 1:000,057 1:000,057 1:000,051 1:001,051 3:343,056 1:001,051 3:143,056 1:001,051 5:705 1:153 1:153 1:11,055 3:440,557 5 1:600,557 5 1:532 6 1:1532 6 1:1532 6 420,557 5 1:532 6 420,557 5 1:532 6 420,557 5 1:532 6 1:532 7 420,557 8 420,557 5 1:532 6 1:532 7 5:055 8 4:0557 9 1:532 1 5 1 5 1</th><th>Jun-16 Jun-16 Jun-16 11,45,194 11,45,5194 11,45,509 (457,530) (457,530) 203,96 (457,530) 203,96 (457,530) 203,96 (457,530) 30,156 3,415,000 3,415,000 5,517 3,411,000 5,314,000 5,311,438,668 1,1138,668 9,11,438,668 5,11,438,668 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,537 5,537 5,537 5,537 6,532 5,537 6,532 5,537 7,6,705 5,536 1,6,11,1438,148 5,537</th></t<><th>Juli-16 Juli-16 Juli-16 Juli-16 12,500,646 12,501,053 12,51,053 12,51,006 3,411,006 3,412,094 3,512,024 1,933 3,512,024 1,933 3,512,034 1,933 3,512,034 1,193 3,1716 5,175 3,1716 5,175 3,1716 5,170 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 5,175 5,105 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,177</th><th>Aug.16 Aug.16 2.82.327 12.856.441 2.855.888 5.94.602 (3.94.602) 3.235.886 3.235.886 3.235.885 3.156.071 5.115.0710000000000000000000000000000000</th><th>Static J Month Common Via Colspan="6">Operation of the static stat</th><th>JE #H000069504 JE #H000069504 KBA for for % Le #H000069505 A balance, A balance, A balance, A balance,</th></th></t<>	Jan-16 Fab-16 Mat-16 Jan-16 Fab-16 Mat-16 11,319,33 10,309,568 11,74,316 11,319,33 10,309,568 12,74,316 11,319,33 10,309,568 12,74,316 11,319,33 10,309,568 12,74,316 12,313,13 (549,582) (361,155) (531,313) (549,582) (330,415) 3,304 4,41,568 4,03,030 3,304 4,41,563 4,100,132 3,305,529 4,449,552 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(1393/33) (939,539 512,056,033 5 (1391,31) (939,539 512,056,03 5 (338,339) (545,660) (356,467) (349,562 4,441,563 (339,348 5 5,078,043 5,711,93 1,716,013 5 5,078,043 5,711,93 1,716,013 5 1,109 5,711,93 1,711,93 1,716,019 5 1,109 1,709 1,1054 1,1154 1,109 1,109 1,109 1,1154 1,109 1,109 1,109 1,1154 1,109 1,109 1,109 1,1108 1,1108 1,109 1,109 1,109 1,109 1,1108 1,109 1,109 1,109 1,109 1,100 1,103 1,109 1,109 1,109 1,1108 1,1108 1,109 1,109 1,109 1,109 1,109 1 1,109 1,109 1,109 1,109 1,100 1,103 1,109 1,109 1,109 1,109 1,100 1 1,109 1,109 1,109 1,109 1,100 1 1,109 1,109 1,109 1,109 1,100 1 1,109 1,109 1,109 1,100 1,103 1 1,109 1,109 1,109 1,100 1,103 1 1,109 1,109 1,109 1,100 1,103 1 1,108 1,100 1,109 1,100 1,103 1 1,108 1,100 1,109 1,100 1,103 1 1,108 1,100 1,109 1,100 1,100 1 1,109 1,109 1,109 1,1,104 1,100 1 1,109 1,109 1,109 1,1,104 1,100 1 1,109 1,109 1,100 1,100 1,100 1 1,109 1,100 1,100 1,100 1,100 1 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1 1,100 10 10 10 10 10 10 10 10 10 10 10 10</th><th>Atr-16 Atr-16 1 1,400,232 11,400,232 1 1,400,232 1331 (532,133) (532,133) (532,136) (532,136) (532,136) (532,136) (532,136) (532,136) (1,135, 236) 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,552,136 3,523,136 3,552,136 3,523,137 3,523,136 3,523,136 3,552,136 3,523,136 3,1,1430,233 4,1,140,128 4,1,1430,233 5,1,156 5,1,126 5,1,156 5,126 5,176 5,172 5,176 5,172 5,1,140 5,172 5,11,1</th><th><u>Mav-16</u> <u>Mav-16</u> 1:000,414 1:000,057 1:000,057 1:000,057 1:000,057 1:000,057 1:000,057 1:000,057 1:000,057 1:000,051 1:001,051 3:343,056 1:001,051 3:143,056 1:001,051 5:705 1:153 1:153 1:11,055 3:440,557 5 1:600,557 5 1:532 6 1:1532 6 1:1532 6 420,557 5 1:532 6 420,557 5 1:532 6 420,557 5 1:532 6 1:532 7 420,557 8 420,557 5 1:532 6 1:532 7 5:055 8 4:0557 9 1:532 1 5 1 5 1</th><th>Jun-16 Jun-16 Jun-16 11,45,194 11,45,5194 11,45,509 (457,530) (457,530) 203,96 (457,530) 203,96 (457,530) 203,96 (457,530) 30,156 3,415,000 3,415,000 5,517 3,411,000 5,314,000 5,311,438,668 1,1138,668 9,11,438,668 5,11,438,668 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,537 5,537 5,537 5,537 6,532 5,537 6,532 5,537 7,6,705 5,536 1,6,11,1438,148 5,537</th></t<> <th>Juli-16 Juli-16 Juli-16 Juli-16 12,500,646 12,501,053 12,51,053 12,51,006 3,411,006 3,412,094 3,512,024 1,933 3,512,024 1,933 3,512,034 1,933 3,512,034 1,193 3,1716 5,175 3,1716 5,175 3,1716 5,170 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 5,175 5,105 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,177</th> <th>Aug.16 Aug.16 2.82.327 12.856.441 2.855.888 5.94.602 (3.94.602) 3.235.886 3.235.886 3.235.885 3.156.071 5.115.0710000000000000000000000000000000</th> <th>Static J Month Common Via Colspan="6">Operation of the static stat</th> <th>JE #H000069504 JE #H000069504 KBA for for % Le #H000069505 A balance, A balance, A balance, A balance,</th>	Schedule J Incorrect Consumptive Value <u>197-16</u> Feb-15 Mar-15 Mar-15 (1392/33 510,039,039 512,025,033 5 (1393/33) (939,539 512,056,033 5 (1391,31) (939,539 512,056,03 5 (338,339) (545,660) (356,467) (349,562 4,441,563 (339,348 5 5,078,043 5,711,93 1,716,013 5 5,078,043 5,711,93 1,716,013 5 1,109 5,711,93 1,711,93 1,716,019 5 1,109 1,709 1,1054 1,1154 1,109 1,109 1,109 1,1154 1,109 1,109 1,109 1,1154 1,109 1,109 1,109 1,1108 1,1108 1,109 1,109 1,109 1,109 1,1108 1,109 1,109 1,109 1,109 1,100 1,103 1,109 1,109 1,109 1,1108 1,1108 1,109 1,109 1,109 1,109 1,109 1 1,109 1,109 1,109 1,109 1,100 1,103 1,109 1,109 1,109 1,109 1,100 1 1,109 1,109 1,109 1,109 1,100 1 1,109 1,109 1,109 1,109 1,100 1 1,109 1,109 1,109 1,100 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1:000,057 1:000,057 1:000,057 1:000,057 1:000,057 1:000,051 1:001,051 3:343,056 1:001,051 3:143,056 1:001,051 5:705 1:153 1:153 1:11,055 3:440,557 5 1:600,557 5 1:532 6 1:1532 6 1:1532 6 420,557 5 1:532 6 420,557 5 1:532 6 420,557 5 1:532 6 1:532 7 420,557 8 420,557 5 1:532 6 1:532 7 5:055 8 4:0557 9 1:532 1 5 1 5 1	Jun-16 Jun-16 Jun-16 11,45,194 11,45,5194 11,45,509 (457,530) (457,530) 203,96 (457,530) 203,96 (457,530) 203,96 (457,530) 30,156 3,415,000 3,415,000 5,517 3,411,000 5,314,000 5,311,438,668 1,1138,668 9,11,438,668 5,11,438,668 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,11,438,668 5,178 5,537 5,537 5,537 5,537 6,532 5,537 6,532 5,537 7,6,705 5,536 1,6,11,1438,148 5,537	Juli-16 Juli-16 Juli-16 Juli-16 12,500,646 12,501,053 12,51,053 12,51,006 3,411,006 3,412,094 3,512,024 1,933 3,512,024 1,933 3,512,034 1,933 3,512,034 1,193 3,1716 5,175 3,1716 5,175 3,1716 5,170 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 3,1716 5,175 5,175 5,105 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,176 5,177	Aug.16 Aug.16 2.82.327 12.856.441 2.855.888 5.94.602 (3.94.602) 3.235.886 3.235.886 3.235.885 3.156.071 5.115.0710000000000000000000000000000000	Static J Month Common Via Colspan="6">Operation of the static stat	JE #H000069504 JE #H000069504 KBA for for % Le #H000069505 A balance, A balance, A balance, A balance,

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HELCO-WP-B-005 PAGE 3 OF 3

DRAFT – PENDING RESPONSE FROM THE CONSUMER ADVOCATE Treatment of Billing Adjustments Going Forward

The Hawaiian Electric Companies have agreed to implement the recommendation in the Consumer Advocate's statement of position on Transmittal Nos. 15-03, 15-04 and 15-05 to discontinue the presentation of customer billing adjustments in Schedule B of the decoupling RAM template in the Companies' annual decoupling tariff transmittals and the subsequent analyses by the Consumer Advocate of these adjustments.

In its statement of position, filed on May 15, 2015, the Consumer Advocate stated the following:

Through collaborative discussions with the Hawaiian Electric Companies and after review of information request responses, the Consumer Advocate has concluded and is recommending to the Commission that the extensive manual analyses of out-of-period customer billing adjustments, which [have] historically been undertaken by the Hawaiian Electric Companies, should be discontinued effective in 2015. Examples of customer billing adjustments and the analytic work performed can be observed in the "Adjustment" column of Schedule B, the footnotes on Schedule B and the multiple "WP-B-xx" documents supportive of these entries. Customer billing adjustments may involve movement of individual customers to a more appropriate rate schedule, with retroactive bill credits for applicable prior periods when an inappropriate schedule was employed or the identification and correction of meter reading or other billing errors. At the inception of decoupling, it was necessary to analyze the prior periods affected by such changes to allow only the prior billings months after decoupling inception to impact RBA balances. Now that several years have passed with decoupling in place, there is minimal risk of significant billing adjustments reaching back far enough to precede the inception of decoupling. Moreover, since the Hawaiian Electric Companies do not pay interest to individual customers who are found to have been charged under an inappropriate rate schedule in prior months, it is not necessary to analyze and add RBA interest to such billing corrections. Customer billing adjustments will flow naturally through the billed revenue accounts feeding into the calculation of recorded, adjusted revenues on Schedule B2 and the proposed elimination of the manual analysis of each adjustment to determine prior period months affected will significantly simplify RBA accounting efforts for the Hawaiian Electric Companies and corresponding review efforts for the Consumer Advocate and the Commission. The Hawaiian Electric Companies should continue to report each customer billing adjustment within its standard data responses prepared and submitted with each monthly RBA packet, so that individual adjustments can be selected for review by the Consumer Advocate, as necessary.

In response to the Consumer Advocate's recommendation, Order No. 32866, issued on May 28, 2015, stated the following:

The Consumer Advocate and the HECO Companies agree that accounting for billing adjustments in the RBA could be simplified by changes made on a prospective basis. The commission notes that this matter does not have to be resolved prior to any timely approval of the 2015 transmittals and proposed RBA Rate Adjustments. The HECO Companies may file proposed implementing RBA tariff amendments based on language reviewed by and agreed to by the Consumer Advocate.

Thus, the Company proposes to delete the provision on billing adjustments in the RBA Provision tariff as shown on Attachment 1. Billing adjustments will not be reflected in the RBA filing prospectively effective upon agreement with the Consumer Advocate.

Regarding the Consumer Advocate's recommendation on reporting, the Companies propose to report customer billing adjustments of \$50,000 or more in the monthly RBA packets, as \$50,000 is the current threshold to trigger interest recalculation.

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Hawaii Electric Light Company, Inc.

Bargaining Unit Wage Increase per Collective Bargaining Agreements - Effective January 1, 2011 and July 1, 2013

	Wage Increases:	1/1/2011	1.75%	(Note 1)	
	(non-compounded)	1/1/2012	2.50%	(Note 1)	
		1/1/2013	3.00%	(Note 1)	
		1/1/2014	2.000/	(1)-1- 2)	
			3.00%	(Note 2)	
		1/1/2015	3.00%	(Note 2)	
		1/1/2016	3.25%	(Note 2)	
		1/1/2017	3.00%	(Note 2)	
		Increase	Wage Rate	Labor (Cost
	Increase effective	Amount	With Increase	Escalation	+ +
-		(a)	(b)	(c)	
			prev (b) + (a)	(b) / prev	(b) -1
				(2) · p. c.	(-)
1.00	1.75% 1/1/2011	0.0175		(2) / p. c.	
1.00	1.75% 1/1/2011 2.50% 1/1/2012	0.0175 0.0250	1.0175 1.0425	0.0246	2.46%
1.00			1.0175		
1.00	2.50% 1/1/2012	0.0250	1.0175 1.0425	0.0246	2.46%
1.00	2.50% 1/1/2012	0.0250	1.0175 1.0425	0.0246	2.46%
	2.50% 1/1/2012 3.00% 1/1/2013	0.0250 0.0300 0.0300	1.0175 1.0425 1.0725 1.0300	0.0246 0.0288	2.46% 2.88%
	2.50% 1/1/2012 3.00% 1/1/2013 3.00% 1/1/2014 3.00% 1/1/2015	0.0250 0.0300 0.0300 0.0300	1.0175 1.0425 1.0725 1.0300 1.0600	0.0246 0.0288 0.0291	2.46% 2.88% 2.91%
	2.50% 1/1/2012 3.00% 1/1/2013 3.00% 1/1/2014	0.0250 0.0300 0.0300	1.0175 1.0425 1.0725 1.0300	0.0246 0.0288	2.46% 2.88%

- (1) Agreement ratified by the IBEW, Local 1260 on March 11, 2011, reflects a 1.75% increase effective 1/1/2011, 2.50% increase effective 1/1/2012, and 3.00% increase effective 1/1/2013. See HECO's Form 8-K dated March 11, 2011 filed with Securities and Exchange Commission at www.hei.com, under SEC filings.
- (2) Agreement ratified by the IBEW, Local 1260 on November 1, 2012, reflects a 3.00% increase effective 1/1/2014, 1/1/2015 and 1/1/2017 and a 3.25% increase effective 1/1/2016, based on 1/1/2013 rates. See HECO's Form 10-Q dated November 8, 2012 filed with Securities and Exchange Commission at www.hei.com, under SEC filings. See also HELCO-WP-C003.

Blue Chip Economic Indicators[®]

Top Analysts' Forecasts of the U.S. Economic Outlook for the Year Ahead Vol. 42, No. 2, February 10, 2017

Wolters Kluwer

2 ■ BLUE CHIP ECONOMIC INDICATORS ■ FEBRUARY 10, 2017

2017 Real GDP Forecast Unchanged At 2.3% for A Third Month

FEBRUARY 2017				From 2016 (- Average			- Total Unit	s-2017	2017
Forecast For 2017	1	2	3	4	5	6	7	8	9	10	H	12	13	14	15
	Real GDP	GDP		Consumer	Indust.	Dis. Pers,	Personal	Non-Res.	Carp.	Treas.	Treas.	Unempl.	Housing	Auto&Light	Net
SOURCE:	(Chained) (2009\$)	Price Index	GDP (Cur.\$)	Price Index	Prod. (Total)	(2009\$)	Cons, Exp. (2009\$)	Fir, Inv. (20095)	Profits (Cur.\$)	80s	Notes 10 Year	Rate	Starts	Truck Sales	Exports
Moody's Analytics	2.6 H	1.6 L	4,6	2.8	1.3	2.0	3.2 H	3.6	3.6	3-mo. 0.6 L	10-Year 2.9	(Civ.) 4,7	(Md.) 1.41	(Mil.) 17.5	(2009\$) -672.6 L
Naroff Economic Advisors*	2.6 H	2.5 H		2.7	2.0	2.1	2.7	4.5 H	6.7	1.0	2.8	4.5	1.33	17.4	-651.0
RBC Capital Markets	2.6 H	1,8	4.4	2.1 L	na	па	2.7	2.7	na	na	2.6	4.4 L	1.23	17.5	-603.0
SOM Economics, Inc.	2.6 H	2.1	4,7	2.2	1.6	2.2	2.6	2.8	6.0	0.7	2.7	4.5	1.26	17.6	-586.0
Turning Points (Micrometrics)	2.6 H	2.2	4,8	2.8	1.4	2.2	2.7	2.8	8.7	0.7	2.7	4.9	1.22	18.0 H	
ACT Research AIG	2.5 2.5	2.1 1.9	4.7 4.5	2.5 2.6	1,3 1,5	2.2 2.3	2.6 2.9	4.5 H 3.4	na 7,0	1.0	2.6	4.4 L	1.29	17.3	-652.4
Amberst Pierpont Securities	2.5	2.1	4.6	2.0 2.9 H	1.3	2.3	2.9	3.4	6.0	0.7 1.1	2.5 2.9	4.6 4.6	1.23	17.5 17.4	-613.8 -616.0
Econoclast	2.5	2.1	4,6	2.5	1.8	2,4	2.8	3.0	5.1	0,8	2.8	4.6	1.20	17.3	-625.0
MUFG Union Bank	2.5	1.9	4.4	2.9 H	2.1	na	2,7	4.0	7.0	1.0	2.7	4.6	1.35	17,7	-590.0
Wells Capital Management	2.5	1.9	4.4	2.2	1.9	2.4	3.0	3.2	3.6	0.8	2.7	4.6	1.18	17,4	-634.0
Action Economics	2.4	2.0	4,4	2.6	1.5	2.2	2.6	3.3	7.6	0.8	2,6	4.7	1.27	17,8	-621.3
BMO Capital Markets* Comerica*	2.4 2,4	1.9 1.9	4.4 4.4	2.7	1.7	2.3	2.9	2.7	6.3	0.7	2.6	4.4 1.	1.32	17.2	-635.3
High Frequency Economics	2,4	2.3	4,4	2.6 2.6	0.9 1.6	1,9 L 2.3	2.2 L 2.7	3.9 3.6	na 3.0	0.7	2.7 2.7	4.7 4.5	1.23	17.2 17.7	-605.0 -616.3
Inforum - Univ. of Maryland	2.4	2.0	4.4	2.4	1.5	2.4	2.6	2.7	4.8	0.9	2,7	4.7	1.23	17.4	-596.0
National Assn. of Home Builders	2.4	2.1	4.6	2.3	0.9	2.0	2.7	3.1	na	0.8	2.7	4.7	1.24	17.5	-615.0
PNC Financial Services Group	2.4	2.0	4.5	2.3	1.8	2.7	2,7	2.3	na	0.8	2,7	4.5	1.20	17.5	-580.0
Standard & Poors Corp.*	2.4	2.2	4.7	2.4	2.6	2.1	2.5	3.2	3.6	0.7	2.5	4.6	1.29	17.5	-548.1
UBS	2.4	1.9	4.3	2.3	1.2	3.1	2.7	3.2	na	1.0	na	4.6	1.30	na	-634.0
UCLA Business Forecasting Proj.* BNP Paribas North America	2.4 2.3	2.3 1.9	5.0 H 4.2	2,5 2,4	0.8 4.5 Н	3.9 H	3.0 2.5	4.2 3.0	5.0	1.6 H	2.7	4.7	1.21	17,4	-633.7
Conference Board*	2.3	2.0	4.2 4.4	2.4	4.5 H -1.0 L	ла 2,1	2.5	3.0 2.8	na 2.6	0.7 0.9	2.8 2.6	4.6 4.6	na 1,28	na 17.2	-643.0 -630.4
Credit Suisse	2.3	1.9	4.2	2.2	1.2	กล	2.3	2.7	na 2.0	0.9 na	2.8	4.6	1.20 na	17.2 na	-603.7
Daiwa Capital Markets America	2.3	2.0	4.3	2.4	1.7	2.1	2.6	3.3	2.9	1.0	2.8	4.7	1.20	17.3	-634.0
DS Economics	2,3	1.9	4.2	2.4	1.2	2.2	2.7	3.5	6.2	0.7	2.5	4.5	1.30	17.3	-636.0
Economist Intelligence Unit	2.3	2.0	4.3	2.4	1.7	2.2	2.7	1.9	na	0.7	2.8	4.5	1.27	17.3	-580.0
FedEx Corporation	2.3	2.0	4.6	2.5	1.5	2.3	2.7	3.0	5.4	0.8	2.6	4.7	1.27	17.6	-624.9
General Motors Georgia State University*	2.3 2.3	2.0 2.1	4.3 4.4	2.6 2.4	1.2 2.0	2.4 2.4	2.6 2.7	3.0 2.7	\$.6 6.5	0.8	2.5	4.5	1.30	na 14 e	-622.4
IHS Markit Economics	2.3	2.1	4.4	2.4	1.4	2.4	2.7	4.3	0.5 8.9	0.7 0.9	3.1 H 2.6	5.0 H 4.6	1.13 1.24	16.8 17,4	-654.9 -629.6
Macroeconomic Advisers, LLC**	2.3	1.9	4.2	2.4	1.2	2.2	2.7	3.6	6.3	0.7	2.5	4.5	1.33	17.4	-639.5
National Assn. of Realtors	2.3	2.0	4.4	2,5	1.4	2.3	2.4	3.6	6.3	0.9	2.7	4.6	1.26	17.4	-610.0
Point72 Asset Management*	2.3	2.0	4.4	2.6	2.2	2.1	2.4	3.9	4.7	0.9	2,6	4.4 1.	1.25	17,6	-620.1
Societe Generale	2.3	2,0	4.3	2.1 L	na	2.3	2.7	3.5	9.1 H	0.7	2.7	4.6	1.22	17.7	-644,0
Oxford Economics Ford Motor Company*	2.3	2.0	4.3	2.5	1.2	2.2	2.7	2.9	1.2 L	0.8	2.6	4.6	1,28	17.9	-611.3
Goldman Sachs & Co.**	2.2 2.2	1,9 2.2	4.1 4.5	2.3 2.8	0.9 1.2	2.1 2.0	2.9 2.5	3.2 3.3	na	na 1,3	2.6	4.6	1.32	na	-654.0
MacroFin Analytics	2.2	2.0	4.2	2.8	1.5	2.2	2.6	2.2	na 5,9	1.0	3.0 2.7	4.5 4.6	1,28 1.20	na 17,3	-632.9 -592.0
Moody's Capital Markets*	2.2	1.9	4,1	2.2	2.1	1.9 L	2.5	1.5	4.0	0.7	2.5	4.6	1.22	17.4	-607.0
NatWest Markets	2.2	2.0	4.3	2.4	1.2	1.9 L	2.6	2.6	6.0	0,8	2.6	4.6	1,33	17.0	-625.0
Regions Financial Corporation	2.2	2.1	4.4	2.6	1.4	2.2	2.5	2.9	2.6	0.8	2,6	4.6	1.19	17.1	-596.1
Swiss Re	2.2	1.8	4.0	2.5	1.9	2.7	2.7	2.9	6.7	0.7	2,5	4.6	1.27	16.2 L	-662.2
U.S. Chamber of Commerce Wells Fargo	2.2	1.9	4.1	2.1 L	1.2	2.2	2,6	2.2	4.0	0.9	2.6	4.8	1.26	na	-642.2
Bank of America Merrill Lynch	2.2 2.1 L	2.1 1.9	4.2 4.1	2.5 2.5	1.5 1.3	2.2 na	2.7 2.6	3.4 3.5	2.5	0.8 0.7	2.5	4.7	1.22	17.1	-653,3
Barclays*	2.1 L	2.1	4.3	2.4			2.6	1.3 L	na		2.6 2.3 L	4.6 4.6	1.23	17.6	-638.5
Eaton Corporation	2.1 L		4.1	2.5	na 1.2	na 2,5	2.7	2.3	na na	na 0.7	2.3 L	4.0	1.29	na 17.1	-610.0 -614.7
Fannie Mae	2.1 L	1.8	3.9	2.4	1.1	2.2	2.7	2.5	4.9	0,9	2.6	4.6	1.24	17.2	-634.6
J P MorganChase	2.1 L		4.1	2.5	1.2	2.5	2.5	1.3 L	4.9	na	2.5	4.6	1.25	17.3	-641.9
Morgan Stanley* Nomura Securities	2.1 L		3.8 L	2.5	2.7	2.4	2.6	3.2	na	0.7	2.6	4.7	1.31	na	-624.1
Northern Trust Company*	2.1 L		3.8 L	2.7	1,4	2.2	2.4	3.4	na	na	2.6	4.7	1.35	17.2	-634.2
RDQ Economics	2.1 L 2.1 L	2.1	4.3 4.2	2.4 2.6	1,9 1,3	па 2.6	2.5 2.6	2.6 2.9	ла 3.1	0.8 1,1	2.8 2.8	4.7 4.5	1,28 1,20	17.5	-561.7
2017 Consensus: February Avg.		(2.0)	4.4	2.5	1.5	2.0	2.0	3.0	5.3	0.8	2.8	4.5	1.20	18.0	-644.9 -620.5
Top 10 Avg			4.8	2.8	2.4	2,7	2.9	4.0	7.5	1.1	2.9	4.8	1.34	17.8	-575.6
Bottom 10 Avg		1.8	4.0	2.2	0.8	2.0	2.4	2.0	3.2	0.7	2,5	4.5	1.20	17.0	-653,2
January Avg.	2.3	2.0	4.4	2.4	1.5	2.4	2.6	2.9	5.0	0.9	2.7	4.6	1.26	17.3	-599.0
Historical data 2013	1.7	1.6	3.3	1.5	1.9	-1.4	1.5	3.5	1.7	0,1	2.4	7.4	0.92	15.5	-404,9
2014	2.4	1.8	4.2	1.6	2.9	3.5	2.9	6.0	5.9	0.0	2.5	6.2	1.00	16.4	-425.7
2015		1.1	3.7	0.1	0.3	3.5	3.2	2.1	-3.0	0.1	2.2	5.3	1.11	17.4	-540.0
2016	1.6	1,3	2.9	1.3	-1.0	2.7	2.7	-0.4.	na	0.3	1.8	4.9	1.17	17.5	-561.6
Number Of Forecasts Changed From A M	onth Ago:														
Down	17	17	26	15	16	20	14	14	10	12	e	7		.	<u>,</u>
Same		25	16	20	18	15	14	8	14	12 32	8 32	7 37	8 32	4 25	41 9
Up		12	12	19	16	12	21	32	12	4	13	10	12	25 16	4
February Median		2.0	4.4	2.5	1.4	2.2	2.7								
February Diffusion Index			37 %	2.5 54 %	50 %			3.1 67%	5.4 53 %	0.8 42 %	2.6 55 %	4.6 53 %	1.27 54 %	17.4 63 %	-625.0 16 %
								Forecast A						۵% د ن	16 %

HAWAII ELECTRIC LIGHT COMPANY, INC. EXHIBIT A

JOB CC	DE	JOB TITLE	/1/2013	7/1/2013 1	/1/2014 7/1/2	014 1/1/2015 7/1/201	<u>5 1/1/2016 7/1/20</u>	16 1/1/2017 7/1/201	7 1/1/2018 7/1/2018
					3%	3%	3.25%	3%	
CL5		CASHER							
CL49		DISTRICT CLERK I			REASE	INCREASE	INCREASE	INCREASE	
		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 mps.	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
-	101	BOILER OPERATOR TRAINEE							
Т8 Т55	(S)	COMBUSTION TURBINE OPERATOR TR							
100	(S)		23.44		24.14	24.84	25.60	26.30	27.00
		1st 12 mos. Thereafter	26.38		27.17	24.84	28.82	29.61	30.40
		Thereader	20.00		61.11	21.50	20.02	23.01	30.40
CL39		PLANNER AID							
		1st 3 mos.	18.92		19.49	20.06	20.67	21,24	21.81
		Next 3 mos	19.85		20.45	21.05	21.70	22.30	22.90
		Next 3 mos	20.83		21.45	22.07	22.75	23.37	23.99
		Next 6 mos	22.91		23.60	24.29	25.03	25.72	26.41
		Next 6 mos	24.06		24.78	25.50	26.28	27.00	27.72
		Next 6 mos	25.26		26.02	26.78	27.60	28.36	29.12
		Thereafter	26.47		27.26	28.05	28.91	29.70	30.49
		112100-101				20100			00.00
CL7		METER READER							
CL21		METER READER		X 1.03=	X 1.	0291= X 1.03	307= X1.0	275=	
		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.	24.06		24.78	25.50	26.28	27.00	27.72
		Next 6 mos.	25.26		26.02	26.78	27.60	28.35	29.12
		Next 6 mos.	26.47		27.26	28.05	28.91	29.70	30.49
		Therealter	27.81		28.64	29.47	30.37	31.20	32.03
.									
CL38		SURVEY AIDE				a. ee	25.00	DC 70	
		1st 3 mos.	22.91		23.60	24.29	25.03	25.72	26.41
		Next 3 mos.	24.06		24.78	25.50	26.28	27.00	27.72
		Next 6 mos.	25.26		26.02	26.78	27.60	28.36	29.12
		Next 6 mos.	26.44		27.23	28.02	28.88	29.67	30.46
		Next 6 mos.	27.91		28.75	29.59	30.50	31.34	32.18
		Therealter	29.36		30.24	31.12	32.07	32.95	33.83
CL9		FIELD REPRESENTATIVE							
CL22		FIELD REPRESENTATIVE							
CL78		MATERIAL & RECORDS KEEPER		X 1.03=	V 1	.0291= X 1.0	207- XI)275=	
0270		1st 6 mos.	25.26	A 1.00-	26.02	26.78	27.60	28.36	29.12
			28.44		27.23	28.02	28.88	29.67	30.46
		Next 6 mos. Next 6 mos.	27.91		28.75	29.59	30.50	31.34	32.18
		Thereafter	29.39		30.27	31.15	32.11	32.99	33.87
		1)Bleaker	23.33		50.21	31.13	52.11	JE.33	33.07
C33		STOCK & PRICE CLERK TYPIST							
		1st 9 mos.	26.44		27.23	28.02	28.88	29.67	30.46
		Next 6 mos.	27.91		28.75	29.59	30.50	31.34	32.18
		Thereafter	29.39		30.27	31.15	32.11	32.99	33. 87 ·
T1 4 0									
TL10		WAREHOUSE ATTENDANT	10.77		17.07		10.00	10.00	10.00
		1st 3 mos.	16.77		17.27	17.77	18.32	18.82	19.32
		Next 3 mos.	18.46		19.01	19.56	20.16	20.71	21.26
		Next 6 mos.	20.31		20.92	21.53	22.19	22.80	23.41
		Next 6 mos.	22.42		23.09	23.78	24.49	25.16	25.83
		Next 6 mos.	24,65		25.39	26.13	26.93	27.67	28.41
		Next 6 mos.	27.17		27.99	28.81	29.69	30.51	31.33
		Therealter	29.92		30.82	31.72	32.69	33.59	34.49
T25		TRUCK DRIVER	29.92		30.82	31.72	32.69	33.59	34.49
T26		TOOL ROOM ATTENDANT & REPAIRER							
		1st 12 mos.	29.25		30.13	31.01	31.96	32.84	33.72
		Therealter	30.80		31.72	32.64	33.64	34.56	35.48
Τ27		WAREHOUSE ATTENDANT/DRIVER	30.80	1	31.72	32.64	33.64	34,56	35.48
						was197			WW, 1W

HELCO-WP-D1-001 PAGE 1 OF 5

Hawaii Electric Light Company, Inc. CIS in 2017 RAM Calculations HELCO Summary (\$ in 000's)

		CIS	Rate Base Deferred Costs	`	:	2017	Activities			CI	Rate Base IS Deferred Costs
Line	Description (Note 1)		Recoverable at 12/31/16 (Note 2)		Additions (12 months)		Amortization (12 months) (Note 3)	N	let Change		Recoverable at 12/31/17
1	CIS Deferred Cost	\$	5,596	\$		\$, , , , , , , , , , , , , , , , ,	5	665)	s	4,931
2	CIS Deferred O&M Reclass		•		-		- '		` - '		-
3	Carrying charges		60		-		(7)		(7)		53
4	Write-Off (Note 2)		(3,859)		-		458		458		(3,401)
5 = sum 1 - 4	CIS deferred costs recoverable	\$	1,797	\$	-	\$	(214)	5	6 (214)	\$	
			To Sch D1, K1				To Sch E	1	To Sch D1, K1		To Sch D1, K1

(1) 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 ("2013 Stipulation"), for the treatment of costs relating to the Customer Information System ("CIS").

(2) See Transmittal No. 16-02 (Decoupling) - Hawaii Electric Light RBA Rate Adjustment, HELCO-WP-D1-001, filed on May 19, 2018.

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(3) Amortized over 12 years, per Exhibit 1, page 2 of 3, footnote 2 of the 2013 Stipulation referenced in note (1) above. Refer to CIS Amortization schedule included in pages 2 to 5 of this workpaper.

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HELCO-WP-D1-001 PAGE 2 OF 5

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Hawaii Electric Light Company, Inc. CIS in 2017 RAM Calculations CIS Amortization Schedule

Amort. Period 144 months	
Deel Asset Balance	
Reg Asset Balance	
Bal. 5/2013 \$ 2,561,551	
1 Jun-13 \$ (17,788.55) \$ 2,543,762.45	
2 Jul-13 (17,788.55) 2,525,973.90	
3 Aug-13 (17,788.55) 2,508,185.35	
4 Sep-13 (17,788.55) 2,490,396.81	
5 Oct-13 (17,788.55) 2,472,608.26	
6 Nov-13 (17,788.55) 2,454,819.71	
7 Dec-13 (17,788.55) 2,437,031.16 \$ (18) \$	2,437
8 Jan-14 (17,788.55) 2,419,242.61	
9 Feb-14 (17,788.55) 2,401,454.06	
10 Mar-14 (17,788.55) 2,383,665.51	
11 Apr-14 (17,788.55) 2,365,876.97 Yearly Amorti:	zation
12 May-14 (17,788.55) 2,348,088.42 \$	(213)
13 Jun-14 (17,788.55) 2,330,299.87	()
14 Jul-14 (17,788.55) 2,312,511.32	
15 Aug-14 (17,788.55) 2,294,722.77	
16 Sep-14 (17,788.55) 2,276,934.22	
17 Oct-14 (17,788.55) 2,259,145.67	
18 Nov-14 (17,788.55) 2,241,357.13	
19 Dec-14 (17,788.55) 2,223,568.58 \$ (18) \$	2,224
20 Jan-15 (17,788.55) 2,205,780.03	2,227
21 Feb-15 (17,788.55) 2,187,991.48	
22 Mar-15 (17,788.55) 2,170,202.93	
23 Apr-15 (17,788.55) 2,152,414.38	
24 May-15 (17,788.55) 2,134,625.83 Yearly Amortia	zation
25 Jun-15 (17,788.55) 2,116,837.28 \$	(214)
26 Jul-15 (17,788.55) 2,099,048.74	(214)
27 Aug-15 (17,788.55) 2,081,260.19	
28 Sep-15 (17,788.55) 2,063,471.64	
29 Oct-15 (17,788.55) 2,045,683.09	
30 Nov-15 (17,788.55) 2,027,894.54	
31 Dec-15 (17,788.55) 2,010,105.99	2.010
32 Jan-16 (17,788.55) 1,992,317.44	2,010
33 Feb-16 (17,788.55) 1,992,317,44	
36 May-16 (17,788.55) 1,921,163.25	

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Hawaii Electric Light Company, Inc. CIS in 2017 RAM Calculations CIS Amortization Schedule (continued)

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HELCO-WP-D1-001 PAGE 3 OF 5

			Cost - Amort		
		(Rate Bas	se Impact)	Rounded (\$ in	
				Yearly A	mortization
37	Jun-16	(17,788.55)	1,903,374.70	\$. (213)
38	Jul-16	(17,788.55)	1,885,586.15		
39	Aug-16	(17,788.55)	1,867,797.60		
40	Sep-16	(17,788.55)	1,850,009.06		
41	Oct-16	(17,788.55)	1,832,220.51		
42	Nov-16	(17,788.55)	1,814,431.96		
43	Dec-16	(17,788.55)	1,796,643.41	(18)	1,797
44	Jan-17	(17,788.55)	1,778,854.86		
45	Feb-17	(17,788.55)	1,761,066.31		
46	Mar-17	(17,788.55)	1,743,277.76	Yearly A	mortization
47	Apr-17	(17,788.55)	1,725,489.22	[(214)
48	May-17	(17,788.55)	1,707,700.67	······································	
49	Jun-17	(17,788.55)	1,689,912.12		
50	Jul-17	(17,788.55)	1,672,123.57		
51	Aug-17	(17,788.55)	1,654,335.02		
52	Sep-17	(17,788.55)	1,636,546.47		
53	Oct-17	(17,788.55)	1,618,757.92		
54	Nov-17	(17,788.55)	1,600,969.38		•
55	Dec-17	(17,788.55)	1,583,180.83	(18)	1,583]
56	Jan-18	(17,788.55)	1,565,392.28		
57	Feb-18	(17,788.55)	1,547,603.73		
58	Mar-18	(17,788.55)	1,529,815.18		
59	Apr-18	(17,788.55)	1,512,026.63		
60	May-18	(17,788.55)	1,494,238.08		
61	Jun-18	(17,788.55)	1,476,449.53		
62	Jul-18	(17,788.55)	1,458,660.99		
63	Aug-18	(17,788.55)	1,440,872.44		
64	Sep-18	(17,788.55)	1,423,083.89	•	
65	Oct-18	(17,788.55)	1,405,295.34		
66	Nov-18	(17,788.55)	1,387,506.79		
67	Dec-18	(17,788.55)	1,369,718.24		
68	Jan-19	(17,788.55)	1,351,929.69		
69	Féb-19	(17,788.55)	1,334,141.15		
70	Mar-19	(17,788.55)	1,316,352.60		
71	Apr-19	(17,788.55)	1,298,564.05		
72	May-19	(17,788.55)	1,280,775.50		
73	Jun-19	(17,788.55)	1,262,986.95	•	
74	Jul-19	(17,788.55)	1,245,198.40		
75	Aug-19	(17,788.55)	1,227,409.85		
76	Sep-19	(17,788.55)	1,209,621.31		
77	Oct-19	(17,788.55)	1,191,832.76		
78	Nov-19	(17,788.55)	1,174,044.21		
79	Dec-19	(17,788.55)	1,156,255.66		
80	Jan-20	(17,788.55)	1,138,467.11		
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Hawaii Electric Light Company, Inc. CIS in 2017 RAM Calculations CIS Amortization Schedule (continued)

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HELCO-WP-D1-001 PAGE 4 OF 5

		CIS I	Final Cost - Amort	
		(Ra	te Base Impact)	Rounded (\$ in 000's)
81	Feb-20	(17,788.55)	1,120,678.56	
82	Mar-20	(17,788.55)	1,102,890.01	
83	Apr-20	(17,788.55)	1,085,101.47	
84	May-20	(17,788.55)	1,067,312.92	
85	Jun-20	(17,788.55)	1,049,524.37	
86	Jul-20	(17,788.55)	1,031,735.82	
87	Aug-20	(17,788.55)	1,013,947.27	
88	Sep-20	(17,788.55)	996,158.72	
89	Oct-20	(17,788.55)	978,370.17	
90	Nov-20	(17,788.55)	960,581.63	
91	Dec-20	(17,788.55)	942,793.08	
92	Jan-21	(17,788.55)	925,004.53	
93	Feb-21	(17,788.55)	907,215.98	
94	Mar-21	(17,788.55)	889,427.43	
95	Apr-21	(17,788.55)	871,638.88	
96	May-21	(17,788.55)	853,850.33	
97	Jun-21	(17,788.55)	836,061.78	
98	Jul-21	(17,788.55)	818,273.24	
99	Aug-21	(17,788.55)	800,484.69	
100	Sep-21	(17,788.55)	782,696.14	
101	Oct-21	(17,788.55)	764,907.59	
102	Nov-21	(17,788.55)	747,119.04	
103	Dec-21	(17,788.55)	729,330.49	
104	Jan-22	(17,788.55)	711,541.94	
105	Feb-22	(17,788.55)	693,753.40	
106	Mar-22	(17,788.55)	675,964.85	•
107	Apr-22	(17,788.55)	658,176.30	
108	May-22	(17,788.55)	640,387.75	
109	Jun-22	(17,788.55)	622,599.20	
110	Jul-22	(17,788.55)	604,810.65	
111	Aug-22	(17,788.55)	587,022.10	
112	Sep-22	(17,788.55)	569,233.56	
113	Oct-22	(17,788.55)	551,445.01	
114	Nov-22	(17,788.55)	533,656.46	
115	Dec-22	(17,788.55)	515,867.91	
116	Jan-23	(17,788.55)	498,079.36	
117	Feb-23	(17,788.55)	480,290.81	
118	Mar-23	(17,788.55)	462,502.26	
119	Apr-23	(17,788.55)	444,713.72	
120	May-23	(17,788.55)	426,925.17	
121	Jun-23	(17,788.55)	409,136.62	
122	Jul-23	(17,788.55)	391,348.07	
123	Aug-23	(17,788.55)	373,559.52	
124	Sep-23	(17,788.55)	355,770.97	

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Hawaii Electric Light Company, Inc. CIS in 2017 RAM Calculations CIS Amortization Schedule (continued)

HELCO-WP-D1-001 PAGE 5 OF 5

			al Cost - Amort Base Impact)	Rounded (\$ in 000's)
125	Oct-23	(17,788.55)	337,982.42	
126	Nov-23	(17,788.55)	320,193.88	
127	Dec-23	(17,788.55)	302,405.33	
128	Jan-24	(17,788.55)	284,616.78	
129	Feb-24	(17,788.55)	266,828.23	
130	Mar-24	(17,788.55)	249,039.68	
131	Apr-24	(17,788.55)	231,251,13	
132	May-24	(17,788.55)	213,462.58	
133	Jun-24	(17,788.55)	195,674.03	
134	Jul-24	(17,788.55)	177,885.49	
135	Aug-24	(17,788.55)	160,096.94	
136	Sep-24	(17,788.55)	142,308.39	
137	Oct-24	(17,788.55)	124,519.84	
138	Nov-24	(17,788.55)	106,731.29	
139	Dec-24	(17,788.55)	88,942.74	
140	Jan-25	(17,788.55)	71,154.19	
141	Feb-25	(17,788.55)	53,365.65	
142	Mar-25	(17,788.55)	35,577.10	
143	Apr-25	(17,788.55)	17,788.55	
144	May-25	(17,788.55)	0.00	

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Hawaii Electric Light Company, Inc. Accumulated Deferred Income Taxes by Activity FEDERAL DR(CR)

		HEP as IPP-		
		Owned		
		<u> </u>		
<u> </u>	Description	12/31/16	Т	
	Accelerated Depreciation	(67,009,728)	┫	
2	Excess AccDep	6,743	-	
3	Deficit AccDep	(63,253)	f	
4	Subtotal Utility Depreciation	(67,066,239)	-	
5	TOTAL ACCOUNT 282,01 UTILITY	(67,066,239)	-	
P	TOTAL ACCOUNT 202,01 OTILITT	(07,000,237)		· ··· · ·
	ACCOUNT 283.01:			
6	ACRS Retirements Gain/(Loss)	(5,439,333)		
7	Bad Debts	529,369		
8	Bonuses - Non-executives (fka Rewards Program)	52,162		
9	Cap to Construction	(243,867)		
10	Capital Loss Carryforward	487		
11	Capitalized Interest	2,796,561		
12	Capitalized Interest §481(a) D&T Adj	(136,618)	-	
13	CIAC Cost of Removal	16,244,396	+	<u> </u>
14 15	Cost of Removal Customer Advances	(19,325,658) 2,155,812		
16	Customer Advances CWIP Debt / (AFUDC Debt Incurred)	(2,594,694)	╞	
17	CWIP Debt Transition	24,613		
18	Exec Comp - Deferred Comp (Rest Stock, RSU)	25,813	H	
19	EICP, LTIP	97,691		
20	Emissions Fees	118,634	Π	
21	Energy Services	(0)	٦	
22	FIN 48 - Tax Component	262,822		
23	FIN 48 - Interest Component	10,970		
24	Franchise Taxes	355,654		
25	General/Legal Liability	39,901		
26	HMSA Prem Adj			
27	Interest - CIS	(13,621)		To Scheduke K1, Note 3
28	Interest - Nondeductible (RAR)	(583)		
29	Legal/Consulting Fees (PPA)	521,466		
30	OPEB & Trackers	935,838		
31	OPEB Executive Life	425,879	-	
32	Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified)	(8,860,700) 18,913	_	
33	Percentage Repair Allowance (D&T)	(726,403)	-	·
35	Prepaid Expenses	(18,407)	Η	·
36	Project Costs - Geothermal RFP	(36,928)		
37	Rate Case	(222,517)	-	└───── ─ ─┤
38	Repairs	(11,924,634)		····
39	RBA Revenues - §481(a) Adjustment	(2,447,009)		
40	RBA Revenues	1,454,175	Γ	
41	R&D Expense	•		
42	Rev Bond Differential	(70,133)		
43	Rev Bond Redemption Prem/Amort	(342,115)		
44	Rewards Programs (merit; fka TIP)	(0)	Ц	
45	Software - CIS	(236,157)		
46	Software - ERP	19,944	L	
47	Software - HR Suites	44,423	Ц	
48	Software - IVR	(162,599)	-	<u> </u>
49	Software - UI Planner	10,152	H	
50	Software - Other	(366,559)	Η	
51	Solar Saver	243,952	-	
53	State ITC	2,534	Η	
54	Vacation Accrual	(82,931)	Η	·····
55	Workers Compensation	84,344	Η	
55			μ	

Hawaii Electric Light Company, Inc. Accumulated Deferred Income Taxes by Activity FEDERAL DR(CR)

		Owned	
	Description	12/31/16	
	FAS 109: Regulatory Assets/Liabilities	-	· · · ·
56	Reg Asset - SFAS 109 Flow Through	(305,278)	
57	Reg Asset - Plant Transition (AFUDC)	(704,386)	· · · · · · · · · · · · · · · · · · ·
58	Reg Asset - CWIP Equily Transition	(46,615)	
59	Reg Assset - CWIP Eqty Gr Up/(AFUDC Eqty Gr U	(3,376,162)	
60	Reg Asset - CWIP Equity Net/(AFUDC Eqty Incur-	(5,298,085)	
61	Fed ITC amort	(915,056)	
62	Fed ITC - Reg Liability	1,022,563	
63	Fed Energy Credit - Reg Liability	38,769	
64	Reg Asset - Deficit Def - Oth	(24,430)	
65	Reg Liab - Excess Def - Oth	11,455	
66	Reg Asset - RAR 88-89	2,921	
\square			
67	TOTAL ACCOUNT 283.01 UTILITY	(31,197,214)	
	1017/27/2000111283.01 0112111	(21,17,214)	· · · · · ·
68	TOTAL FEDERAL ADIT BEFORE RATE BASE AI	(98,263,453)	
H		(20,200,1027	·
		· · ·	
\vdash	RATE BASE ADJUSTMENTS:		
69	TOTAL ACCOUNT 283.01	(31,197,214)	
70	Bad Debis	529,369	
71	Bonuses - Non-executives (fka Rewards)	52,162	
72	Exec Comp - Deferred Comp (Rest Stock, RSU)	25,813	
73	EICP	97,691	
74	Energy Services	(0)	
75	FIN48 Tax and Interest	273,792	
76	Franchise Taxes	355,654	
	General/Legal Liability Reserve	39,901	· · · · · ·
78	HMSA Prem Adj	-	
	Interest - CIS (Full Debt Portion)	(7,938)	HELCO-WP-D4-002
	Interest - Nondeductible (RAR)	(583)	
81	OPEB - Exec Life	425,879	
82	Pension (Supplemental - Non-qualified)	18,913	
83	Rate Case Costs (included in rate base beginning 2009	-	
84	RBA Revenues - §481(a) Adjustment	(2,447,009)	
85	RBA Revenues	1,454,175	
86	Rewards Program (merit; fka TIP)	(0)	
87	Software - ERP	19,944	
88	Software - IVR (included in rate base as of Aug 2015)	-	
89	Solar Saver	243,952	
90	Vacation Accrual	(82,931)	
91	Workers Comp Reserve	84,344	
92	Total Adjustments Account 283	1,083,126	
93	TOTAL ACC 283.01 AFTER ADJUSTMENTS	(32,280,340)	To Schedule D4
		(04,00,040)	
94	TOTAL ACC 282.01 - UTIL	(67,066,239)	To Schedule D4
95	TOTAL FEDERAL ADIT AFTER RATE BASE AD.	(99,346,579)	To Schedule D4

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Hawaii Electric Light Company, Inc. Accumulated Deferred Income Taxes by Activity STATE DR(CR)

		HEP as IPP-	
		Owned	
	Description	12/31/16	
	ACCOUNT 282,01:		
1	Accelerated Depreciation	(3,617,905)	
2	Excess AccDep	1,319	
3	Deficit AccDep	(11,606)	
4	TOTAL ACCOUNT 282,01 UTILITY	(3,628,192)	
	ACCOUNT 283.01:		
5	ACRS Retirements Gain/(Loss)	(1,137,095)	
6	Bad Debts	96,798	
7	Bonuses - Non-executives (fka Rewards)	9,538	[]
8	Cap to Construction	(44,462)	
9	Capital Loss Carryforwards	54	
10	Capitalized Interest	577,076	
Ш	Capitalized Interest §481(a) D&T Adj	(49,881)	
12	CIAC	3,409,791	
13	Cost of Removal	(3,534,211)	
14	Customer Advances	394,206	
15	CWIP Debt / (AFUDC Debt Incurred)	(474,458)	
16	CWIP Debt Transition	4,500	
17	Exec Comp - Deferred Comp (Rest Stock, RSU)	4,720	
18	EICP, LTIP	17,863	
19	Emissions Fees	21,693	
20	Energy Services	(0)	
21	FIN 48 - Tax Component	86,458	
22	F1N 48 - Interest Component	2,006	
23	Franchise Taxes	65,033	
24	General/Legal Liability	7,296	
25	HMSA Prem Adj	(0)	
25 26	Interest - CIS	(0) (2,491)	To Scheduke K1, Note 3
			To Scheduke K1, Note 3
26	Interest - CIS	(2,491)	To Scheduke K1 , Note 3
26 27	Interest - CIS Interest - Nondeductible (RAR)	(2,491) (107)	To Scheduke K1 , Note 3
26 27 28	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB Executive Life	(2,491) (107) 95,354	To Scheduke K1 , Note 3
26 27 28 29	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers	(2,491) (107) 95,354 171,125	To Scheduke K1 , Note 3
26 27 28 29 30 31 32	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified)	(2,491) (107) 95,354 171,125 77,875	To Scheduke K1 , Note 3
26 27 28 29 30 31	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker	(2,491) (107) 95,354 171,125 77,875 (1,620,243)	To Scheduke K1. Note 3
26 27 28 29 30 31 32	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458	To Scheduke K1, Note 3
26 27 28 29 30 31 32 33	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T)	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642)	To Scheduke K1, Note 3
26 27 28 29 30 31 32 33 34	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257)	To Scheduke K1. Note 3
26 27 28 29 30 31 32 33 34 35 36 37	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothermal RFP Rate Case Repairs	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4,117,054)	To Scheduke K1. Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothermal RFP Rate Case Repairs RBA Revenues - \$481(a) Adjustment	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4,117,054) (447,453)	To Scheduke K1. Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38 39	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothermal RFP Rate Case Repairs RBA Revenues - §481(a) Adjustment RBA Revenues	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4,117,054)	To Scheduke K1. Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothermal RFP Rate Case Repairs RBA Revenues - \$481(a) Adjustment RBA Revenues R&D Expense	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4,117,054) (447,453) 265,906	To Scheduke K1. Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38 39	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothermal RFP Rate Case Repairs RBA Revenues - §481(a) Adjustment RBA Revenues	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4,117,054) (447,453)	To Scheduke K1. Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 40 41	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothermal RFP Rate Case Repairs RBA Revenues - \$481(a) Adjustment RBA Revenues R&D Expense	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4,117,054) (447,453) 265,906	To Scheduke K1. Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 40 41 42	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothennal RFP Rate Case Repairs RBA Revenues - §481(a) Adjustment RBA Revenues R&D Expense Rev Bond Differential Rev Bond Redemption Prem/Amort Rewards Programs (merit; fka TIP)	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4,117,054) (447,453) 265,906 (12,823)	To Scheduke K1. Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 40 41 42 43	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothermal RFP Rate Case Repairs RBA Revenues - §481(a) Adjustment RBA Revenues R&D Expense Rev Bond Differential Rev Bond Redemption Prem/Amort Rewards Programs (merit; fka TIP) Software - CIS	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4,117,054) (447,453) 265,906 - - (12,823) (62,557) (0) (43,183)	To Scheduke K1. Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 40 41 42 43 44	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothermal RFP Rate Case Repairs RBA Revenues - \$481(a) Adjustment RBA Revenues R&D Expense Rev Bond Redemption Prent/Amort Rewards Programs (merit; fka TIP) Software - CIS Software - ERP	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4,117,054) (447,453) 265,906 (12,823) (62,557) (0) (43,183) 3,647	To Scheduke K1 , Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 40 41 42 43 44 44 45	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothermal RFP Rate Case Repairs RBA Revenues - §481(a) Adjustment RBA Revenues R&D Expense Rev Bond Redemption Prem/Amort Rewards Programs (merit: fka TIP) Software - CIS Software - ERP Software - HR Suites	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4,117,054) (447,453) 265,906 - - (12,823) (62,557) (0) (43,183)	To Scheduke K1 , Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 40 41 42 43 44 44 45 46	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothermal RFP Rate Case Repairs RBA Revenues - §481(a) Adjustment RBA Revenues R&D Expense Rev Bond Differential Rev Bond Redemption Prem/Amort Rewards Programs (merit; fka TIP) Software - ERP Software - HR Suites Software - IVR	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4,117,054) (447,453) 265,906 (12,823) (62,557) (0) (43,183) 3,647	To Scheduke K1 , Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 40 41 42 43 44 44 45	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothermal RFP Rate Case Repairs RBA Revenues - §481(a) Adjustment RBA Revenues R&D Expense Rev Bond Redemption Prem/Amort Rewards Programs (merit: fka TIP) Software - CIS Software - ERP Software - HR Suites	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4,117,054) (447,453) 265,906 - (12,823) (62,557) (0) (43,183) 3,647 (1,856)	To Scheduke K1 . Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 40 41 42 43 44 44 45 46	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothermal RFP Rate Case Repairs RBA Revenues - §481(a) Adjustment RBA Revenues R&D Expense Rev Bond Differential Rev Bond Redemption Prem/Amort Rewards Programs (merit; fka TIP) Software - ERP Software - HR Suites Software - IVR	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4,117,054) (447,453) 265,906 - (12,823) (62,557) (0) (43,183) 3,647 (1,856) (27,197)	To Scheduke K1 . Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 40 41 42 43 44 44 45 46 47	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothermal RFP Rate Case Repairs RBA Revenues - §481(a) Adjustment RBA Revenues R&D Expense Rev Bond Differential Rev Bond Redemption Prem/Amort Rewards Programs (merit; fka TIP) Software - CIS Software - HR Suites Software - IVR Software - UI Planner	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4,117,054) (447,453) 265,906 - (12,823) (62,557) (0) (43,183) 3,647 (1,856) (27,197) 1,856	To Scheduke K1 . Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 40 41 42 43 44 44 45 46 47 48	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothermal RFP Rate Case Repairs RBA Revenues - \$481(a) Adjustment RBA Revenues R&D Expense Rev Bond Differential Rev Bond Redemption Prem/Amort Rewards Programs (merit; fka TIP) Software - CIS Software - HR Suites Software - IVR Software - UI Planner Software - Other	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (40,798) (4,117,054) (447,453) 265,906 - (12,823) (62,557) (0) (43,183) 3,647 (1,856) (27,197) 1,856 (78,280)	To Scheduke K1 . Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 40 41 41 42 43 44 44 45 46 47 48 49	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothermal RFP Rate Case Repairs RBA Revenues - §481(a) Adjustment RBA Revenues R&D Expense Rev Bond Differential Rev Bond Redemption Prem/Amort Rewards Programs (merit; fka TIP) Software - CIS Software - HR Suites Software - UP Planner Software - Other Solar Saver	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4117,054) (447,453) 265,906 - (12,823) (62,557) (0) (43,183) 3,647 (1,856) (27,197) 1,856 (78,280) 44,608	To Scheduke K1 . Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothermal RFP Rate Case Repairs RBA Revenues - §481(a) Adjustment RBA Revenues R&D Expense Rev Bond Differential Rev Bond Redemption Prem/Amort Rewards Programs (merit: fka TIP) Software - CIS Software - HR Suites Software - UI Planner Software - Other Solar Saver State ITC	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4,117,054) (447,453) 265,906 (12,823) (62,557) (0) (43,183) 3,647 (1,856) (27,197) 1,856 (78,280) 44,608 945,747	To Scheduke K1 , Note 3
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	Interest - CIS Interest - Nondeductible (RAR) Legal/Consulting Fees (PPA) OPEB & Trackers OPEB & Trackers OPEB Executive Life Pension, Pension Asset, and Tracker Pension (Supplemental - Non-qualified) Percentage Repair Allowance (D&T) Prepaid Expenses Project Costs - Geothernnal RFP Rate Case Repairs RBA Revenues - \$481(a) Adjustment RBA Revenues R&D Expense Rev Bond Differential Rev Bond Redemption Prem/Amort Rewards Programs (merit: fka TIP) Software - CIS Software - HR Suites Software - IVR Software - UP Planner Software - Other Solar Saver State ITC SunPower for Schools	(2,491) (107) 95,354 171,125 77,875 (1,620,243) 3,458 (191,642) (3,257) (6,753) (40,798) (4,117,054) (447,453) 265,906 - (12,823) (62,557) (0) (43,183) 3,647 (1,856) (27,197) 1,856 (78,280) 44,608 945,747 463	To Scheduke K1 , Note 3

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Hawaii Electric Light Company, Inc. Accumulated Deferred Income Taxes by Activity STATE DR(CR)

		HEP as IPP-	
		Owned	
	Description	12/31/16	·
	FAS 109: Regulatory Assets/Liabilities		
54	Reg Asset - CWIP Equity Transition	(8,524)	· · · · · · · · · · · · · · · · · · ·
55	Reg Asset - SFAS 109 Flow Through	(55,823)	
56	Reg Asset - Plant Transition (AFUDC)	(128,802)	
57	CWIP Equity Net / (AFUDC Eqty Incurred)	(964,469)	
58	Reg Assset - CWIP Eqty Gr Up / (AFUDC Eqty Gr U	(621,679)	· · · · · · · · · · · · · · · · · · ·
59	Fed ITC amort	(167,324)	
60	Fed ITC - Reg Liability	186,983	
61	Fed Energy Credit - Reg Liability	7,090	
62	Reg Asset - Deficit Def - Oth	(607)	
63	Reg Liab - Excess Def - Oth	2,106	·
64	Reg Assel - RAR 88-89	534	
65	TOTAL ACCOUNT 283.01	(7,338,985)	
66	TOTAL STATE ADIT BEFORE RATE BASE ADJ	(10,967,177)	
	RATE BASE ADJUSTMENTS:		
67	TOTAL ACCOUNT 283.01	(7,338,985)	
68	Bad Debts	96,798	
69	Bonuses - Non-executives (fka Rewards)	9,538	
70	Exec Comp - Deferred Comp (Rest Stock, RSU)	4,720	
71	EICP	17,863	
72	Energy Services	(0)	
73	FIN48 Tax and Interest	88,464	
74	Franchise Taxes	65,033	
75	General/Legal Liability Reserve	7,296	
76	HMSA Prem Adj	(0)	
77	Interest - CIS (Full Debt Portion)	(1,452)	HELCO-WP-D4-002
78	Interest - Nondeductible (RAR)	(107)	
79	OPEB - Exec Life	77,875	
80	Pension (Supplemental - Non-qualified)	3,458	
81	Rate Case Costs (included in rate base beginning 2009)		
82	RBA Revenues - §481(a) Adjustment	(447,453)	
83	RBA Revenues	265,906	
84	Rewards Program (merit; fka TIP)	(0)	
85	Software - ERP	3,647	
86	Software - IVR (included in rate base as of Aug 2015)		
87	Solar Saver	44,608	
88	Vacation Accrual	(15,165)	
89	Workers Comp Reserve	15,423	
	Tetel Adventure	226.162	· · · · · · · · · · · · · · · · · · ·
88	Total Adjustments Account 283	236,453	
89	TOTAL ACC 283.01 AFTER ADJUSTMENTS	(7,\$75,439)	To Schedule D4
90	TOTAL ACC 282.01 - UTIL	(3,628,192)	To Schedule D4
91	TOTAL STATE ADIT AFTER RATE BASE ADJ	(11,203,630)	To Schedule D4

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HAWAI'I ELECTRIC LIGHT CO., INC. ADIT RATE BASE ADJUSTMENT FOR ADDITIONAL CIS INTEREST

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				DR	! / (CR)	DR	/ (CR)	DI	R / (CR)	
	Interest on CIS Deferred Costs	Ad	d'i Debt		8947% Def Fed		0150% Def State	Accu	Total m Def Tax	
1 2	CIS Interest (1/13/- 5/13) CIS Interest Amort beg 6/13	\$	34,408 (1,673)	\$	11,318 (550 <u>)</u>	\$	2,070 (101)	\$	13,388 (651)	
3	Balance as of 12/31/13	\$	32,735	\$	10,768	\$	1,969	\$	12,737	
4 5	2014 CIS Interest Amortization Balance as of 12/31/14	S	(2,867) 29,868	\$	(943) 9,825	\$	(172) 1,797	\$	(1,115) 11,622	
6 7	2015 CIS Interest Amortization Balance as of 12/31/2015	\$	(2,867) 27,001	\$	(943) 8,882	\$	(173) 1,624	\$	(1,116) 10,506	
8 9	2016 CIS Interest Amortization Balance as of 12/31/2016	\$	(2,867) 24,133	\$	(943) 7,939	\$	(173) 1,451	5	(1,116) 9,390	To Sch K1
10 11	2017 CIS Interest Amortization Balance as of 12/31/2017	5	(2,867) 21,266	\$	WP-D4-001a (943) 6,996	S	WP-D4-001b (173) 1,278	\$		To Sch K1 To Sch K1

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

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HAWAII ELECTRIC LIGHT COMPANY, INC. CALCULATION OF COMPOSITE EFFECTIVE INCOME TAX RATES FEDERAL AND STATE

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COMPOSITE FEDERAL AND STATE EFFECTIVE INCOME TAX RATE

Federal Effective Income Tax Rate	32.8947368%
State Effective Income Tax Rate	6.0150376%
	38.9097744%

CALCULATION OF EFFECTIVE RATES

Assumptions: ST = State Income Tax Expense FT = Federal Income Tax Expense Pre-Tax Income = \$1.00 State Statutory Income Tax Rate = 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 x (1 - ST)
ST	=	.064064(ST)
1.064(ST)	=	.064
ST	=	.060150376 or 6.0150376% of Pre-Tax Income

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Calculation of Federal Effective Income Tax Rate

Federal Income Tax Expense	=	Statutory Rate x (Pre-Tax Income - State Income Tax Expense)
FT	=	.35 x (1 - ST)
FT	=	.35 x (1060150376)
FT	=	.350210526316
FT	=	.328947368 or 32.8947368% of Pre-Tax Income

HAWAII ELECTRIC LIGHT COMPANY, INC. TAX REPAIRS ADJUSTMENT 2017

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				A	В	C = A x B	D = A - C
		HE	ELCO-WP-F1- 002		HELCO-WP-F1- 001, pg. 2		
	Life		5-Year Average	Allocated Plant Adds	Repairs Allocation	Repairs Deduction	Depreciable Basis
Information Systems/Data Handling	5	\$	417,209				
Communication	20		1,949,549				
Office Furniture	7		562,218				
Distribution	20		34,904,449	34,904,449	16.68%	5,822,673	29,081,776
Land	-		146,167				
Other Production	15		2,544,933	2,544,933	15.22%	387,228	2,157,705
Steam & Hydraulic Production	20		99,337	99,337	50.77%	50,436	48,901
Structural	39		2,312,848				
Transmission	15		4,154,685	4,154,685	22.58%	938,043	3,216,642
Transmission	20		276,198	276,198	22.58%	62,360	213,838
Vehicles	-		2,177,529			• *	
TOTAL		\$	49,545,123	\$ 41,979,602			<u>\$34,718,862</u>
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To Sch F1

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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 HELCO-WP-F1-001, page 2.

HAWAII ELECTRIC LIGHT COMPANY, INC. REPAIRS DEDUCTION 5-Year Average 2012-2016

		-	Distribution		Non Steam	Steam & Hydro	Transmission
Repairs %:							
	Total Bo	ok Basis Repairs					
1	2012		7,290,491		757,239	473,162	868,286
2	2013		5,858,939		727,153	381,488	1,728,539
3	2014		4,749,772		451,747	237,001	1,011,680
4	2015		4,648,361		_	1,543,043	1,251,849
5	2016		6,565,803		-	143 772	2,005,269
6	Total	•	\$ 29,113,366	\$	1,936,138	\$ 2,778,467	\$ 6,865,623
7 8 9 10 11 12	2012 2013 2014 2015 2016	ok Additions HELCO·WP-F1-002 HELCO·WP-F1-002 HELCO·WP-F1-002 HELCO·WP-F1-002 HELCO·WP-F1-002	29,207,699 38,092,777 35,487,268 30,082,060 41,652,441 \$ 174,522,245	S	761,331 5,742,083 2,841,126 2,253,685 1,126,439	1,319,240 1,744,506 685,561 1,689,649 33,463 \$ 5,472,419	8,701,432 5,903,639 7,086,972 4,336,494 <u>4,379,968</u>
AVERAGE	Total % (Line 6 /	/ Line 12)	\$ 174,522,245 16.68% to HELCO-WP-F 1-001. pg. 1		12,724,664 15.22% IELCO-WP-F1-001. pg. 1	\$ 5,472,419 50.77% to HELCO-WP-F 1-001. pg. 1	\$ 30,408,505 22.58% to HELCO-WP-F 1-001, pg. 1

NOTE 1> Price Waterhouse Coopers assisted HELCO in its analysis of identifying deductible repairs for tax accounting purposes. The repairs percentage for each functional group represents the five year weighted average of repairs costs included in book additions.

NOTE 2> 2016 amounts are estimates. A complete analysis identifying deductible repairs for for 2016 has not yet been completed.

HAWAI! ELECTRIC LIGHT COMPANY, INC 2012-2016 PLANT ADDITIONS 5-YEAR AVERAGE

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LIFE 2012 2013 2014 2015 2016 Maii 5 622,056 544,157 599,976 288,951 30,904 7 7 1,156,157 89,410 35,123 30,5681 1,224,720 30,904 6 7 1,156,157 89,410 35,123 30,5681 1,224,720 30,904 655,441 2,247,200 4,580,511 2,248,612 30,904 6 761,331 5,742,083 30,902,777 35,487,268 30,082,060 41,652,441 1,224,720 3463,541 1,224,720 31,4126 2,100 2,320,084 33,463 31,463 33,463 31,463 33,463 33,463 33,463 31,463 33,463 31,463 31,463 33,463 31,463 31,463 31,463 31,463 31,463 33,463 31,463 31,463 31,463 31,463 31,463 31,463 31,463 31,463 31,463 31,463 31,463 31,463 31,463 31,463 31,463 31,463 31,463<	Z012 Z013 Z014 Z015 Z016 Major Projects Total 5-Year Average 622.056 544.157 599.976 288.951 30.904 From D2 2.066.043 417.209 1,142.345 590.647 949.629 4,580,511 2,444.612 2,066.043 417.209 1,142.345 590.647 949.629 4,580,511 2,444.612 2,811.092 562.218 1,165,157 89,410 35,123 30,082.060 41,652,441 17,522.246 34,904.449 29,207,699 38,092.777 35,487.268 30,082.060 41,652,441 17,522.246 34,904.449 761,331 5,742,083 2,841,126 2,530.84 33,904.449 75,522.246 34,904.449 761,331 5,742,083 1,176,433 12,724,664 2,544.333 761,332 5,742,083 1,126,434 1,724,664 2,544.333 1,222,905 3,380,393 1,680,649 3,3463 (4,975,732) 496,667 2,312,848 8,701,432 5,903,639								Less:			
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20 29,207,699 38,092,777 35,487,268 30,082,060 41,652,441 174,522,246 3 15 761,331 5,742,083 2,400 232,084 17,523,246 3 15 761,331 5,742,083 2,841,126 2,253,685 1,126,439 12,724,664 730,837 20 1,319,240 1,744,506 6,85,561 1,689,649 33,463 (4,975,732) 495,667 39 1,222,905 3,380,393 1,920,479 4,627,515 4,12,950 11,564,242 15 8,701,432 5,903,639 7,086,972 2,993,419 4,342,052 (8,254,091) 20,773,424 20 1,380,826 2,438,782 2,003,232 3,497,083 1,097,722 10,887,645 45,963,990 59,016,572 51,615,842 51,663,728 52,675,304 10,887,645 45,983,990 59,016,572 51,615,842 1,097,722 10,887,645 20 1,860,826 2,436,722 51,615,842 1,097,722 10,887,645 21 <td>20 29,207,699 38,092,777 35,487,268 30,082,060 41,652,441 174,522,246 3 15 761,331 5,742,083 2,100 232,084 17,730,837 730,856,856 71,756,439 71,756,439 71,756,434 730,207,732 10,186</td> <td>urniture</td> <td>7</td> <td>1,156,157</td> <td>89,410</td> <td>35,123</td> <td>305,681</td> <td>1,224,720</td> <td></td> <td>2,811,092</td> <td>562,218</td> <td></td>	20 29,207,699 38,092,777 35,487,268 30,082,060 41,652,441 174,522,246 3 15 761,331 5,742,083 2,100 232,084 17,730,837 730,856,856 71,756,439 71,756,439 71,756,434 730,207,732 10,186	urniture	7	1,156,157	89,410	35,123	305,681	1,224,720		2,811,092	562,218	
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15 761,331 5,742,083 2,841,126 2,253,685 1,126,439 12,724,664 20 1,319,240 1,744,506 685,561 1,689,649 33,453 (4,975,732) 496,687 39 1,222,905 3,380,393 1,920,479 4,627,515 412,950 11,564,242 15 8,701,432 5,903,639 7,086,972 2,993,419 4,342,052 (8,254,091) 20,773,424 20 1,860,826 2,438,782 7,0086,972 3,497,003 1,343,073 37,916 1,380,991 1,860,826 2,438,782 2,003,232 3,497,003 1,097,722 10,887,645 20 1,860,826 2,438,782 2,003,232 3,497,003 1,097,722 10,887,645 45,963,990 59,016,572 51,615,842 51,663,728 52,675,304 10,887,645 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02	15 761,331 5,742,083 2,841,126 2,253,685 1,126,439 12,724,664 20 1,319,240 1,744,506 685,561 1,689,649 33,453 (4,975,732) 496,687 39 1,222,905 3,380,393 1,920,479 4,627,515 412,950 11,564,242 15 8,701,432 5,903,639 7,086,972 2,993,419 4,342,052 (8,254,091) 20,773,424 20 1,860,826 2,438,782 2,003,232 3,497,083 1,097,722 10,887,645 45,983,990 59,016,572 51,615,842 51,663,728 52,675,304 (13,229,823) 247,725,614 4 D2		,		490,177	6,476	2,100	232,084		730,837	146,167	
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39 1,222.905 3,380,393 1,920,479 4,627,515 412,950 11,564,242 ion 15 8,701,432 5,903,639 7,086,972 2,993,419 4,342,052 (8,254,091) 20,773,424 ion 20 1,860,826 2,438,782 2,003,232 3,497,083 1,097,722 10,887,645 45,983,990 59,016,572 51,615,842 51,663,728 52,675,304 (13,229,823) 247,725,614 4 D2 D2	39 1,222.905 3,380,393 1,920,479 4,627,515 412,950 11,564,242 15 8,701,432 5,903,639 7,086,972 2,993,419 4,342,052 (8,254,091) 20,773,424 20 1,860,826 2,438,782 7,086,972 2,993,419 4,342,052 (8,254,091) 20,773,424 1 1,860,826 2,438,782 2,003,232 3,497,083 1,097,722 10,887,645 1 1,860,826 2,438,782 2,003,232 3,497,083 1,097,722 10,887,645 1 1,860,826 2,916,572 51,615,842 51,663,728 52,675,304 (13,229,823) 247,725,614 4 1 02 <td>3 Hydraulic Production</td> <td>20</td> <td>1,319,240</td> <td>1,744,506</td> <td>685,561</td> <td>1,689,649</td> <td>33,463</td> <td>(4,975,732)</td> <td>496,687</td> <td>99,337</td> <td></td>	3 Hydraulic Production	20	1,319,240	1,744,506	685,561	1,689,649	33,463	(4,975,732)	496,687	99,337	
sion 15 8,701,432 5,903,639 7,086,972 2,993,419 4,342,052 (8,254,091) 20,773,424 sion 20 1,343,075 37,916 1,380,991 - 1,850,826 2,438,782 2,003,232 3,497,083 1,097,722 10,887,645 - 45,983,990 59,016,572 51,615,842 51,663,728 52,675,304 (13,229,823) 247,725,614 4 D2 D2	sion 15 8,701,432 5,903,639 7,086,972 2,993,419 4,342,052 (8,254,091) 20,773,424 1,343,075 37,916 1,380,991 1,380,992 1,087,645 10,8		39	1,222,905	3,380,393	1,920,479	4,627,515	412,950		11,564,242	2,312,848	
sion 20 1,380,991 1,343,075 37,916 1,380,991 - 1,343,075 37,916 1,380,991 - 1,380,991 - 1,380,991 - 1,340,992 2,003,232 3,497,083 1,097,722 10,887,645 2, 45,983,990 59,016,572 51,615,842 51,663,728 52,675,304 (13,229,823) 247,725,614 49 02 D2 D	sion 20 1,380,991 1,343,075 37,916 1,380,991 1,343,075 37,916 1,380,991 2, - 1,850,826 2,438,782 2,003,232 3,497,083 1,097,722 10,887,645 2, 	ssion	15	8,701,432	5,903,639	7,086,972	2,993,419	4,342,052	(8,254,091)	20,773,424	4,154,685	
- 1,850,826 2,438,782 2,003,232 3,497,083 1,097,722 10,887,645 2 45,983,990 59,016,572 51,615,842 51,663,728 52,675,304 (13,229,823) 247,725,614 49 D2 D2 D2 D2 D2 C T D2 D2 D2 D2 D2 D2 T	- 1,850,826 2,438,782 2,003,232 3,497,083 1,097,722 10,887,645 2 45,983,990 59,016,572 51,615,842 51,663,728 52,675,304 (13,229,823) 247,725,614 49 D2 D2 D2 D2 C T	ssion	20				1,343,075	37,916		1,380,991	276,198	
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02 02 02 02 02	02 02 02 02 02		1	45,983,990		51,615,842	51,663,728	52,675,304	(13,229,823)	247,725,614	49,545,123	⇒
			IJ	D2	02	02	D2	D2	02		D2	

HELCO-WP-F1-002 · PAGE 1 of 1

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

(\$ Thous	sanos)		
	_	Month E	nd
RATE BASE	REFERENCE	<u>Dec-16</u>	Dec-15
TOTAL UTILITY PLANT	Note 2	766,222	743,842
Adjustments:			
Construction Work in Progress		(12,510)	(11,455)
Retirement Work in Progress		(2,170)	(2,535)
Asset Retirement Obligation	\checkmark	(226)	(215)
Regulatory Liability for Cost of Removal		(89,306)	(81,917)
DEPRECIATED COST OF UTILITY PLANT IN SERVICE	Note 1	662,010	647,720
REGULATORY ASSETS - SFAS 109	Note 2	11,476	11,462
REG ASSET- CONTRIB vs. NPPC	GL#18676030	3,047	3,047
REGULATORY ASSET - PENSION NPPC vs. Rates	GL#18676040	24,937	22,911
REGULATORY ASSET - PREPAID PENSION	GL#18676010	0	0
REGULATORY ASSET - OPEB NPBC vs. Rates	GL#18677040	ů 0	2
REGULATORY ASSET - Asset Retirement Obligation	Note 2	226	215
MATERIALS & SUPPLIES (Excluding Stores Expense)	Note 2	7,251	7,570
MATERIALS & SUPPLIES ADJUSTMENT	HELCO-WP-H-006	(461)	(291)
FUEL STOCK	Note 2	8,229	8,310
UNAMORTIZED DEFERRED HR SUITE-PHASE 1	GL#186060	877	978
UNAMORTIZED DEFERRED HR SUITE-PHASE 2	GL#186061	(236)	(202)
UNAMORTIZED DEFERRED BUDGET SYSTEM PROJECT	GL#186077	219	249
UNAMORTIZED DEFERRED IVR COSTS	GL#18670400	531	586
UNAMORTIZED DEFERRED CIS COSTS	HELCO-WP-D1-001	1,797	2,010
WORKING CASH:	HELCO-WP-H-007	3,721	4,735
DEDUCTIONS:			
Unamortized Contributions in Aid of Construction	Note 2	97,211	95,298
Customer Advances for Construction	Note 2	11,259	11,172
Deferred Income Taxes	Schedule D4	110,550	102,336
Unamortized Investment Tax Cr - 1962 Revenue Act & STC	GL#255200, #255030	15,651	15,184
Customer Deposits	GL#235	2,975	3,352
Regulatory Liability OPEB True-up	OPEB Recon	1,882	1,548
TOTAL DEDUCTIONS		239,528	228,890
MONTH ENDED RATE BASE	I	484,096	480,412
SIMPLE AVERAGE RATE BASE	ĺ	482,254	

Footnotes:

1 Includes Property Held for Future Use balance of \$755,042 for 2016 and \$986,923 for 2015.

2 See Hawaii Electric Light Company Inc. Monthly Financial Report - December 2016, page 8, 9 & 10, filed February 24, 2017.

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* Amounts may not add up due to rounding.

Earnings Sharing Mechanism Interest on Customer Deposit Correction

Background

Under Rule No. 6, the Company may require customers to provide a deposit intended to guarantee payment of bills for electric service. Cash deposits accrue simple annual interest at a rate of 6%. The interest is a company expense.

In July 2016, the Companies found that the interest expense being accrued for financial statement purposes had erroneously been overstated since May 2012. The overstatement resulted from incorrect programing of a report developed when the Customer Information System was implemented. The report miscalculated accrued interest on released deposits and for deposits that had been transferred to the new Customer Information System.

The following table summarizes the interest expense overstatement by year and by company:

Company	2012	2013	2014	2015	2016	Total
Hawaiian Electric	52,794	172,284	328,193	531,054	304,398	1,388,723
Hawaii Electric Light	15,744	42,584	73,925	113,423	56,596	302,272
Maui Electric	20,365	51,289	89,131	117,396	52,652	330,833
Total	88,904	266,158	491,249	761,873	413,645	2,021,828

Impact of Error

No customers were directly impacted by the error. Internal financial controls for this area have been reviewed and strengthened.

The error resulted in an immaterial overstatement of interest expense for financial reporting purposes. The misstatement was deemed immaterial and no prior period adjustment was warranted, as the adjustment was not material, individually or in the aggregate, to previously issued financial statements. The correction was reflected as a reduction in interest expense in 2016.

The immaterial overstatement of interest expense in the period 2012-2015 resulted in immaterial understatements of the Earnings Sharing Mechanism ("ESM"). Adjusting for the interest expense did not impact the ESM in the years which the ESM was not triggered; however, in the years that the ESM was previously triggered [2012 for Hawaiian Electric and 2013 and 2014 for Maui Electric], the amount of the ESM would have been slightly higher. The following summarizes the return on equity for ESM purposes with the adjustment to interest expense reflected in the respective year and company:

Company	ROE Trigger	2012	2013	2014	2015
Hawaiian Electric	10.0	10.70	8.96	9.87	9.23
Hawaii Electric Light	10.0	7.79	7.47	6.67	7.51
Maui Electric	9.0	6.70	9.36	9.50	8.79

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The adjustments to the ESM are summarized below:

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Company (\$000)	2012	2013	2014 ·	2015	Total
Hawaiian Electric	14	-	-	-	14
Hawaii Electric Light	-	-	-	-	-
Maui Electric	-	14	24	-	38

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HAWAII ELECTRIC LIGHT COMPANY, INC. Ratemaking Adjustments for Incentive Compensation and Other Non-Recoverable Expenses . 2016

Account/Activity No.	Description	 YTD	N	et of Tax	Ro	unded 000s		
H9P 723 HEL NE NHAPRESI 900	LTIP expense (credit)	\$ 81,555						
H9P 723 HEL NE NHAPRESI 900	EICP expense (credit)	116,418						
H9P 723 HEL NË NHAPRESI 900	Manager Award	114,943						
H9P 700 HEL NE NHAPRESI 901	LTIP share expense	35,731						
H9P 700 HEL NE NHAPRESI 901	Other incentive awards	84,704				•		
PWO AD 0000024	SPOT Awards	4,065						
40804100	Payroll Taxes related to incentive compensation	11,883				Incentive		
Provided by HEI	HEI charges for incentive compensation	70,839	\$	317,753	\$	318	s	Line 2A
P#R0001202 & HECO P#R0005162	Executive life insurance (COLI) expense (credit) not tax deduct	(43,811)						
Dues Schedule	Company memberships not tax deduct (portion of EEI dues related to EEI's Government Affairs group, Communication, Marketing, Customer, and Employee Relations group)	8,375						
Provided by HEI	HEI charges for outside services (plan admin, legal fees, audit							
	fees) - Executives	24,152						
AD001026	HEIRS 401K	25,618						
HR000146	Service awards	11,253						
HNP 779 HEL NE NHNZZZZZ 501	Non-qual pension	8,525						
HNP 779 HEL NE NHNZZZZZ 501	OPEB (Executive life portion only)	50,132				Other		
Docket 2009-0164 - T-11, Att 3	Management Increase	 291,000	\$	215,449	\$	215	•••	Line 2B
	Total adjustment to operating income	895,382						
	Tax on adjustments	(362,179)						
	Net adjustment to operating income	\$ 533,203	\$	533,203	\$	533		

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HAWAII ELECTRIC LIGHT COMPANY, INC. Income Tax On Items To Be Replaced By Synchronized Interest 2016

	Source	2016	Roune 0	ded 100s		
Total Interest Charges	PUC report, p. 1	\$11,634,419				
Less: Int on Customer Deposits	Account 43105000	55,397				
AFUDC-Debt	NARUC 420030	(293,986)				
Amort of Inv Inc Differential	NARUC 403030	\$23,536	\$	24	⇔	Line 2c
	Tax rate	\$ 11,419,366 38.9097744% \$ 4,443,250	\$	(4,443)	⇔	Line 2d

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HAWAII ELECTRIC LIGHT COMPANY, INC. Ratemaking Capitalization 2016 (\$ in Thousands)

	Simple Average <u>Balance*</u>	<u>Ratios</u>	Cost <u>Rate</u>	Weighted Cost of Debt
Short-Term Debt	-	0.00%	0.00%	0.00%
Long-Term Debt	202,362	39.63%	5.40%	2.14%
Hybrid Securities	9,515	1.86%	7.21%	0.13%
Preferred Stock	6,713	1.31%	8.17%	0.11%
Common Equity	292,003	57.19%	10.00%	5.72%
	510,593	100.00%	-	8.10%
		YTD		
	NARUC/	Dec 2016	Cost	
	GL Code	<u>(\$000s)</u>	<u>Rate</u>	
Short-Term Debt:				
Interest on Debt Assoc Co	430	650		
Less: Interest on QUIDS	43006000	(650)		
Int Exp-Commercial Paper	43100000	-		
Int Exp-SCF Loans	43108000	-		
Int Inc-Assoc Cos.	419300	(61)		
		(61)	0.00%	
Long-Term Debt:				
Amort of Debt Disc & Exp	428	420		
Less: Hybrid Sec Amort of Iss Exp	428QUID1-3 (see below)	(36)		
Interest on Long-Term Debt	427	10,513		
Amort Inv Inc Differential	403030	24	r	
		10,920	5.40%	
Hybrid Securities:				
Interest on QUIDS	43006000	650		
Amort Exp-QUID1 Iss Exp	428QUID1	13		
Amort Exp-QUID2 Iss Exp	428QUID2	13		
Amort Exp-QUID3 Iss Exp	428QUID3	10		
Equity in Net Inc of Trust	421070 _	-		
		686	7.21%	
Preferred Stock:				
Amort of Pfd Stk Iss Exp	42501000	15		
Preferred Stock dividends	437	534		
	-	549	8.17%	

Common Equity: D&O 30168 in Dkt No. 2009-0164 filed February 8, 2012

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

HELCO-WP-H-005 PAGE 1 OF 1

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HAWAII ELECTRIC LIGHT COMPANY, INC. Earning Sharing Credits Recorded (net of tax) 2016

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Earnings Sharing Credits Recorded	\$ -
Revenue Taxes @ 8.885%	\$ -
	\$ -
Income Taxes @38.9097744%	\$ -
Reduction to operating income	\$ -

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

Beg Balance at November 30, 2016 Additions Issues Adjustments Ending Balance at December 31, 2016	Note (1)	a -	7,311 472 (532)
# of Days in December		ъ	31
Average Daily Additions to Inventory Purchase Payment Lag Days	Note (2)	c=a/b d	15.23 30.3
Estimated Unpaid Inventory at December 31, 2016	Note (3)	e=cxd	461

Footnotes:

1 Source: Hawaii Electric Light Company Inc. Combined Inventory Report for December 2016.

2 See Hawaii Electric Light Company Inc. Docket No. 2009-0164 Hawaii Electric Light Company

Inc.'s 2010 test year rate case, HELCO-WP-1603, pages 1 - 3.

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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 11, 1995, in Docket No. 7766.

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HAWAII ELECTRIC LIGHT COMPANY, INC. WORKING CASH 2016

Line No.	Description	Reference	2016		Net Collection Lag (Days)	Amount
	(a)	(b)		(C)	(d) Note (1)	(e)=(c)/365x(d)
1	Fuel Oil	Trial Balance: 820		55,094	24.4	3,683
2	Purchased Power	GL #555		81,018	1,5	333
3	Current Income Taxes					
		Dec. 2016 PUC Monthly				
4	Income Tax	Report, Page 2	5,308			
5	Income Tax related to Disallowed Items	HECO WP-H-002	362			
6	Reversal of Tax Related to Int Synch Replacement	Sch H-Line 2d	4,443			
7	Tax Related to Int Synch	Sch H-line 13 - 13a	(4,265)			
8	Total	Sum of Line 4-7	<u>, , , , , , , , , , , , , , , , , ,</u>	5,648	1.2	19
9	Revenue Taxes					
10	Franchise	GL #408010	7,723			
11	PSC	GL #408020	18,436			
12	PUC Fee	GL #408030	1,566			
13	Total	Sum of Line 10-12		27,726	-29.3	(2,226)
14	O&M Labor					
15	O&M tabor	Acct. Dept. O&M report	17,691	17,691	27.6	1,338
16	O&M Non-Labor					
17	O&M Expense	Trial Balance: G30	63,839			
18	O&M Labor Excl Fuel Labor	(see O&M Labor above)	(17,691)			
19	Bad Debt Expense	GL #904	(992)			
20	Pension Reg Asset/Liab Amon	HECO WP-H-007 pg. 2	(1,072)			
21	OPEB Reg Asset/Liab Amort	HECO WP-H-007 pg. 2	50			
22	Payroll Tax	GL #408050	1,239			
23	Sys Develop Amortization	HECO WP-H-007 pg. 2	(135)			
24	Regulatory Asset - Rate Case	HECO WP-H-007 pg. 2	(675)			
25	Total	Sum of Line 17-24		44,563	4.7	574
		Sum of Line 1, 2, 8, 13, 15,				
26	Working Cash	25				3,721

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Footnotes: 1 See Docket No. 2009-0164, Order No. 30301, Exhibit B, page 2, filed April 4, 2012

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HAWAII ELECTRIC LIGHT COMPANY, INC. O&M Non-Labor 2016

Pension Regulatory Asset Amortization

Pension Regulatory Asset Antonization	<u>2016</u>	O&M % Portion Rounded 74.88% <u>000s</u> Note 1
HNP 779 HEL NE NHN ZZZZZ 501		1,071,670 1,072
OPEB Regulatory Asset Amortization		O&M % Portion Rounded
	<u>2016</u>	74.88% 000s Note 1
HNP 779 HEL NE NHN ZZZZZ 501	(66,271)	(49,624) (50)
		Rounded
System Development Amortization	<u>2016</u>	<u>000s</u>
GL # 186060 & 186061 Regulatory Asset - Rate Case	135,046	135
GL # 186720	675,577	676

Footnote:

1 See Docket No. 2009-0164, Parties' Stipulated Settlement Letter, HELCO T-10 Attachment 3, filed September 16, 2010.

Earnings Sharing Mechanism Cost of Capital

Cost of capital methodology consistently used in Earnings Sharing Mechanism actual filings and reviewed by Office of Consumer Advocacy and reviewed and approved by the Public Utilities Commission have been based on the actual cost of capital

In 2010, the PUC issued an order approving decoupling, which was implemented by Hawaiian Electric on March 1, 2011, by Hawaii Electric Light on April 9, 2012 and by Maui Electric on May 4, 2012. The Earnings Sharing Mechanism ("ESM") calculations became applicable for each of the respective companies, in the year following decoupling implementation. Therefore, the first ESM filings were in the 2012 Annual Filing for Hawaiian Electric and 2013 Annual Filings for Hawaii Electric Light and Maui Electric. ESM calculations in the Annual Filing are for the preceding calendar year.

All ESM calculations filed have incorporated the actual recorded cost of capital for ratemaking purposes. The treatment is thought to be based on discussions held in the 2011 timeframe; however the Companies are unable to locate any documentation of this approach.

Use of the actual cost of capital has resulted in capital cost savings being passed to customers via the ESM

Customers have paid lower rates as a result of lower interest rates which have been passed through the ESM. In most cases, the return on equity calculated using the last test year would have been lower than the return on equity which was filed based on actual financing rates and weights. If the rate case cost of capital had been used in the ESM calculation:

- The Hawaiian Electric 2012 ESM would have been \$1.8 million lower.
- Maui Electric would not have triggered the 2013 ESM (as opposed to the ESM of \$0.4 million).

i	Summary	- Ratemaking Rate	i oj retum joj	Earnings Shan	ing mechanis	<u>m</u>	
	· · · ·	¦	गाः म्			• • •	:
	HE	co	HEI	LCO	ME	co	
	Filed	Revised	Filed	Revised	Filed	Revised	
Dec 2011	8.03%	7.71%.		-	- · · ·	-	
Dec 2012	10.70%	10.21% (A) 7.79%ີ	7.75%	6.69%	6.73%	5
Dec 2013	8.95%	8.59%	7.46%	7.39%	9.35%	8.92%	(B)
Dec 2014	9.85%	9.52%	6.65%	6.59%	9.47%	9.26%	
Dec 2015	9.20%	8.89%	7.49%	7.22%	8.76%	8.77%	
	ESM - filed	ESM - revised	Diff		·		
(A) - HE	2,586.19	814.27	1,771.92	···.	ан тинет а -	1 1 . I- + re Asses	
(B) - ME	366.71		366.71				-
(C) - ME	520.522	285.937	234.59			· •	•
Total	3,473,42	1,100.21	2,373.22	· #	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		

The Maui Electric 2014 ESM would have been \$0.2 million lower.

Only the MECO 2012 and 2015 ROE calculations would be slightly higher using actual financing rates and weights. In both years, the higher ROE rates using the rate case cost of capital (6.73% in 2012 and 8.77% in 2015) are still lower than the 9.0% ROE allowed and still would not have triggered an ESM credit.

See attached back-up calculations.

Proposed clarification within the tariff

In researching, the basis for the cost of capital for the ESM calculations, the Companies found that the Commission decision in Final Decision and Order filed August 31, 2010 in Docket No. 2008-0274, the Order states:

"Capital ratios and costs rates will be retained as authorized in either the most recently issued rate case interim or final decision, and synchronized interest will be updated using methods employed in that last rate case for purposes of the earnings sharing mechanism."

The methodology was adopted as proposed in the Joint Final Statement of Position of the HECO Companies and Consumer Advocate filed May 11, 2009 in Docket No. 2008-0274. The identical statement can be found in the Joint Final Statement of Position p. 19.

As discussed above, however, the practice has been to use the actual cost of capital in calculating the ESM. This practice has resulted in greater savings to customers than using the cost of capital from the last rate case.

In order to clarify that actual cost of capital should be used in the ESM calculation, the Companies propose to add clarifying language in the tariff. Please see the redline version of the tariff in Attachment 1A which specifies that the cost of capital for the ESM calculation is based on actuals.

¹ Final Decision and Order and Dissenting Opinion of Leslie H. Kondo, Commissioner filed August 31, 2010 in Docket No. 2008-0274 Instituting a Proceeding to Investigate Implementing a Decoupling Mechanism for Hawaiian Electric Company, Inc., Hawaii Electric Light Company, Inc. and Maui Electric Company, Limited p. 61.

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HELCO-WP-H-008 PAGE 3 OF 7

Hawaii Electric Light Co Inc. ROE based on 2010 TY RC Final D&O Cost of Capital

		Rate Case	
	Actual	Cost of	
	(Filed)	Capital	Reference
Dec 2012	7.79%	7.75%	page 4
Dec 2013	7.46%	7.39%	page 5
Dec 2014	6.65%	6.59%	page 6
Dec 2015	7.49%	7.22%	page 7

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HELCO-WP-H-008 PAGE 4 OF 7

	HAWAIIAN E DECOUPLING CA E <u>ARNINGS SH</u> , All Amoun	LCULATIO	COMPANY N WORKBOOM	s		L			
Line					Ratem	aking	Basis Return on Eq	uity	
No.	(a)	R	(b)	Qр	erating Income (c)		Rate Base (d)	Rate	of Return (e)
1	Recorded Calendar Year Amounts - 2012	PUC rep	ort, pg. 2A	\$	31,140	\$	(u) 454,471		(=)
2	Reternaking Adjustments to Line 1:								
2a	Incentive Compensation Expenses (net of tax)				234				
25 2c	Discretionary and Other Expenses Not Recoverable (net of tax) Amortization of investment income differential				602 (9)				
2d	Income tax on items to be replaced by synchronized interest				(4,527)				
3	Ratemaking Basis Amounts - Post Tax	Sum Lines	182	\$	27,440	s	454,471		
4	Ratemaking Capitalization	В	alances		Ratios		Cost Rate	Weig	hted Cost
5	Short-Term Debt (12 mo, Avg)	\$	7,040		1.41%		3.25%		0.05%
6	Long-Term Debt (Simple Avg)		196,838		39,48%		6.15%		2,43%
7 8	Hybrid Securities (Simple Avg) Brategrad Stack (Simple Avg)		9,297		1.86%		7,38%		0.14%
9	Preferred Stock (Simple Avg) Common Equity (Simple Avg)		6,623 278,722		1,33% 55,91%		8.29% 10.00%		0,11% 5,59%
10	Total Capitalization	_5	498,520		100.00%				8,31%
11	Line 3 Rate Base Amount					\$	454,471		
12	Weighted Cost of Debt						2.61%		
13	Synchronized Interest Expense Income Tax Factor					\$	11,870 1,636929121		
13a	Synchronized Interest Expense, net of tax					\$	7,251		
14	Post Tax Income Available for Preferred & Common (Line 3 - Line 1	32)						5	20,188
17	Less: Preterred Income Requirement (Line & Weighted Cost times F	Rate Base)							501
18 19	Income Available for Common Stock							\$	19,688
	Ratemaking Equity Investment (Line 9 Ratio times Rate Base)								254,094
20	Return on Equity for Decoupling Earnings Sharing								7.75%
21	Earnings Sharing Revenue Credits:	Ba	sis Points						
22	Achieved ROE (basis points)		775						
23 24	Authorized Return (basis points) ROE for sharing (basis points)		1,000						
25	Sharing Grid per RAM Provision	Fir	st 100 bp		Next 200 bp	,	All over 300 bp	Ratepay	er Total
26	Distribution of Excess ROE (basis points)		0		0		0		
27	Ratepayer Share of Excess Earnings		25%		_50%		90%		
28	Ratepayer Earnings Share - Basis Points		-		•		-		•
29	Revenue Credit per Basis Point (Note 2)							<u> </u>	46
30	Earnings Sharing Revenue Credits (thousands)							<u> </u>	
Footnote: 1	s: Composite Federal & State Income Tax Rate Income Tax Factor (1 / 1-tax rate)				38.91% 1.636929121				
2	Ratemaking Equity Investment (line 19) Basis Point = 1/100 of a percent Earnings Required per Basis Point (thousands) Times: Income Tax Conversion Factor Pretax Income Required per Basis Point (thousands) Times: Revenue Tax Conversion Factor Revenue Requirement per Basis Point (thousands)		7	\$ \$ \$ \$	254,094 0.01% 25.41 1.636929121 42 1.0975 46				

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HELCO-WP-H-008	
PAGE 5 OF 7	

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Reference HAWAIIAN ELECTRIC COMPANY DECOUPLING CALCULATION WORKBOOK EARNINGS SHARING CALCULATIONS All Amounts \$000 (Except %) Line Ratemaking Basis Return on Equity No. Reference Rate of Return Description Operating Income Rate Base (a) (0) (d) 1 Recorded Calendar Year Amounts - 2012 PUC report, pg. 2A \$ 31,089 \$ 464,232 **Batemaking Adjustments to Line 1:** 2 Incentive Companisation Expenses (net of tax) 201 193 29 Discretionary and Other Expenses Not Recoverable (net of tax) Amortization of investment income differential 2b 2c (8) Income tax on items to be replaced by synchronized interest (4,370) 24 3 Ratemaking Basis Amounts - Post Tax Sum Lines 1 & 2 \$ 27,105 S 464,232 Retemaking Capitalization Cost Rate 4 Weighted Cost Balances Ratios Short-Term Debt (12 mo. Avg) 5 5 7,040 1.41% 3.25% 0.05% Long-Term Debt (Simple Avg) 39.48% 6 198,838 8,15% 2.43% 2 Hybrid Securities (Simple Avg) 9,297 1.86% 7.38% 0.14% 8 Preferred Stock (Simple Avg) 6.623 1.33% 8.29% 0.11% 9 Common Equity (Simple Avg) 276,722 55.91% 10.00% 5.59% 10 Total Capitalization 498,520 100.00% 8,31% 11 Line 3 Rate Base Amount \$ 464,232 Weighted Cost of Debt 12 2,61% 13 Synchronized Interest Expense 12,125 \$ 1.636929121 7.407 Income Tax Factor Synchronized Interest Expense, net of tax 13a s 14 Post Tax Income Available for Preferred & Common (Line 3 - Line 13a) 19,698 \$ 17 Less: Preferred income Requirement (Line 8 Weighted Cost times Rate Base) 511 18 Income Available for Common Stock s 19,186 Ratemaking Equity Investment (Line 9 Ratio times Rate Base) 19 259,552 20 Return on Equity for Decoupling Earnings Sharing 7.39% 21 Earnings Sharing Revenue Credits: **Basis Points** 22 Achieved ROE (basis points) 739 Authorized Return (basis points) ROE for sharing (basis points) 1,000 23 24 25 Sharing Grid per RAM Provision First 100 bp All over 300 bp Ratepayer Total Next 200 bp 26 Distribution of Excess ROE (basis points) Q 0 0 27 Ratepayer Share of Excess Earnings 25% 90% 50% 28 Ratepayer Earnings Share - Basis Points . 29 Revenue Credit per Basis Point (Note 2) 47 \$ 30 Earnings Sharing Revenue Credits (Ihousands) \$ Footnotes: Composite Federal & State Income Tax Rate Income Tax Factor (1 / 1-tax rate) 38.91% 1.636929121 Ratemaking Equity Investment (line 19) Basis Point = 1/100 of a percent Earnings Required per Basis Point (thousands) 2 259,552 0.01% Times: Income Tax Conversion Factor Pretax Income Required per Basis Point (thousands) • 1.636929121 Times: Revenue Tax Conversion Factor Revenue Requirement per Basis Point (thousands) 3

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	PAGE 6 OF 7

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	HAWAIIAN E								
	DECOUPLING CA			ĸ					
	EARNINGS SHA								
	All Amoun	18 5000 (E	xcept %)						
Une					Roter	nakin	g Basis Return on E	- mitu	
No.	Description	R	eference	Ope	arating Income	10.11	Rate Base		Return
	(8)		(b)		(c)		(4)		6)
								-	-
1	Recorded Calendar Year Amounts - 2014	PUC re	port, pg. 2A	\$	29,269	\$	475,713		
2	Retemaking Adjustments to Line 1:								
-	Referribung Voldstillents in Fille 17								
Za	Incentive Compensation Expenses (net of tax)				356				
2b	Discretionary and Other Expenses Not Recoverable (net of tax)				209				
2¢	Amortization of investment income differential				(5)				
2d	Income tax on items to be replaced by synchronized interest				(4,189)				
3	Retemaking Basis Amounts - Post Tax	Sum Line	55 182	5	25,639	\$	475,713		
	-						-		
		_							
* 4	Retemaking Capitalization	E	lalances		Ratios		Cost Rate	Weight	ed Cost
5	Short-Term Debt (12 mo. Avg)	\$	7,040		1.41%		3.25%		0.05%
6	Long-Term Debt (12 mil. Avg)	•	196,838		39.48%		3.25% 6.15%		2,43%
7	Hybrid Securities (Simple Avg)		9,297		1.86%		7.38%		0,14%
8	Preferred Stock (Simple Avg)		6,623		1,33%		8.29%		0.11%
9	Common Equity (Simple Avg)		278,722		55,91%		10.00%		5.59%
-							10.007		3.33 A
10	Total Capitalization	\$	498,520		100.00%				8.31%
		Ľ.	+50,020						0.0174
11	Line 3 Rate Base Amount					\$	475,713		
	141-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1								
12	Weighted Cost of Debt						2.61%		
13	Synchronized Interest Expense					\$	12,425		
	Income Tax Factor						1.636929121		
13a	Synchronized Interest Expense, net of tax					\$	7,590		
	Part Taulana a Anglishia (n. Partana da Partana da Kima a Al-								
14	Post Tax Income Available for Preferred & Common (Line 3 - Line	138)						\$	18,049
17	Less: Preferred Income Requirement (Line 8 Weighted Cost times	Rate Bas	e)						524
	· · · •								
18	Income Available for Common Stock							5	17,525
19	Ratemaking Equity Investment (Line 9 Ratio times Rate Base)								
	Recentering Equity investment (Chie & Rate Unies Rate Dase)								265,971
20	Return on Equity for Decoupling Earnings Sharing								6,59%
21	Earnings Sharing Revenue Credits:	Ba	isis Points						
22	Achieved ROE (basis points)		659						
23	Authorized Return (basis points)		1,000						
24	ROE for sharing (basis points)								
25	Sharing Grid per RAM Provision	Fü	rst 100 bp		New 200 h-		All over 300 bp	Ratepayer	Total
26	Distribution of Excess ROE (basis points)		0	1	Vext 200 bp		0		
					0				
27	Ratepayer Share of Excess Earnings		25%		-	_	90%		
	Batata a Familian Obara Daria Batata				50%				
28	Ratepayer Earnings Share - Basis Points		-		_		•		•
29	Revenue Credit per Basis Point (Note 2)				-			\$	48
								<u> </u>	
30	Earnings Sharing Revenue Credits (thousands)							5	
Footnote	S.								
1	Composite Federal & State Income Tax Rate								
	Income Tax Factor (1 / 1-tax rate)				38.91%				
2	Patemaking Equity Investment (Fine 40)				1.636929121				
2	Ratemaking Equity Investment (line 19) Basis Point = 1/100 of a percent			\$	265,971				
	Earnings Required per Basis Point (thousands)			-	0,01%				
	Times: Income Tax Conversion Factor			\$	26,60				•
	Pretax Income Required per Basis Point (thousands)				1.636929121				
	Times: Revenue Tax Conversion Factor			\$	44				
	Revenue Requirement per Basis Point (thousands)			5	1.0975				
					-0				

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Revenue Requirement per Basis Point (Ihousands)

HELCO-WP-H-008
PAGE 7 OF 7

Reference HAWAIIAN ELECTRIC COMPANY DECOUPLING CALCULATION WORKBOOK EARNINGS SHARING CALCULATIONS All Amounts \$000 (Except %) Ratemaking Basis Return on Equity Line Operating Income (c) No. Description (a) Reference (b) (0) 1 Recorded Calendar Year Amounts - 2015 PUC report, pg. 2A \$ 31,061 \$ 479,494 2 Retemaking Adjustments to Line 1: 2a Incentive Compensation Expenses (net of fax) 295 24 25 2c 2d Discretionary and Other Expenses Not Recoverable (net of tax) Amortization of investment income differential 228 24 Income tax on items to be replaced by synchronized interest (4,060) 3 Ratemaking Basis Amounts - Post Tax 27,548 \$ Sum Lines 1 & 2 s 479,494 Retemating Capitalization 4 Ratios Cost Rate Balances Weighted Cost Short-Term Debt (12 mo, Avo) 5 7 040 1.41% 3 25% s 0.05% Long-Term Debt (Simple Avg) 196,838 39.48% 6 6,15% 2.43% 7 Hybrid Securities (Simple Avg) 9,297 1,66% 7.38% 0,14% 8 Preferred Stock (Simple Avg) 6,623 1,33% 8.29% 0.11% 9 Common Equity (Simple Avg) 278,722 55,91% 10.00% 5.59% 10 498,520 Total Capitalization 100.00% 8.31% \$ 11 t ine 3 Rate Base Amnunt s 479,494 Weighted Cost of Debt 12 2,61% 13 Synchronized Interest Expense 12,524 s 1,636929121 7,651 Income Tax Factor 13a Synchronized Interest Expense, net of tax -14 Post Tax Income Available for Preferred & Common (Line 3 - Line 13a) \$ 19,897 17 Less: Praterred Income Requirement (Line 8 Weighted Cost times Rate Base) 528 18 Income Available for Common Stock . 19,369 . 19 Ratemaking Equity Investment (Line 9 Ratio times Rate Base) 268,085 Return on Equity for Decoupling Earnings Sharing 20 7.22% 21 Earnings Sharing Revenue Credits: **Basis Points** 22 23 24 Achieved ROE (basis points) 722 Authorized Return (basis points) ROE for sharing (basis points) 1,000 25 Sharing Grid per RAM Provision First 100 bp All over 300 bp Ratepaver Total Next 200 bp 26 Distribution of Excess ROE (basis points) Q O 0 27 Ratepayer Share of Excess Earnings 25% 90% 50% 28 Ratepayer Earnings Share - Basis Points 29 Revenue Credit per Basis Point (Note 2) 48 30 Earnings Sharing Revenue Credits (Incusands) Footnotes: Composite Federal & State Income Tax Rate Income Tax Factor (1 / 1-tax rate) 38.91% 1.636929121 2 Ratemaking Equity Investment (line 19) Basis Point = 1/100 of a percent Earnings Required per Basis Point (thousands) 268,085 0.01% Times: Income Tax Conversion Factor Pretax Income Required per Basis Point (thousands) . 1.636929121 Times: Revenue Tax Conversion Factor 5 44

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HAWAII ELECTRIC LIGHT COMPANY, INC. DECOUPLING CALCULATION WORKBOOK CIS PROJECT COSTS - ADIT

		CIS PROJEC	CUSIS-ADIT					
_							ADIT	
		Federal	State	Fed Book - Tax	State Book - Tax	Federal	State	Total
_	Book	Tax Basis	Tax Basis	Difference	Difference	35.00%	6.01504%	
CIS Book Basis	8,071,054	8,071,054	8,071,054					
Book/Tax Differences:								
AFUDC		(1,014,686)	(1,014,686)					
Book Writedown of CIS Costs	(5,500,000)	(5,500,000)	(5,500,000)					
	2,571,054	1,556,368	1,556,368					
Book/Tax bases differences	(94,249)	(63,229)	(63,229)					
AFUDC		(6,154)	(6,154)					
Amortization through 2012-2013	(120,408)	(1,167,365)	(847,745)		-			
Balance as of 12/31/13	2,356,397	319,620	639,240	2,036,777	1,717,157	(676,721)	(103,288)	(780,009)
2014 Amortization	(206,413)	(247,831)	(495,662)					
Balance as of 12/31/14	2,149,984	71,789	143,578	2,078,195	2,006,406	(685,128)	(120,686)	(805,814)
2015 Amortization	(206,413)	(71,789)	(143,578)	(134,624)	(62,835)	45,796	3,780	49,575
Balance as of 12/31/15	1,943,571	-	•	1,943,571	1,943,571	(639,333)	(116,907)	(756,239)
2016 Amortization	(206,413)			(206,413)	(206,413)	67,899	12,416	80,315
Balance as of 12/31/16	1,737,158	•	•	1,737,158	1,737,158	(571,434)	(104,491)	(675,924)
2017 Amortization	(206,413)			(206,413)	(206,413)	67,899	12,416	80,315
Balance as of 12/31/17	1,530,745	•	•	1,530,745	1,530,745	(503,535)	(92,075)	(\$95,609)

Note: For tax purposes, CIS costs are amortized over 36 months and are fully amortized by 2015.

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HAWAII ELECTRIC LIGHT COMPANY, INC. Major Projects: CIS Carrying Cost (amortize 12 years) Amortization of CIS Assets

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	CIS Def Post		CIS Final Co	
Mort. Period Reg Asset Balar		nonths	144 n	nonths
Bal. 6/2013	59,038		2,476,957	
Debit:		330,021.00		40,330,021.
Crudit;	18	,670,202.00		18,605,005.
Jun-13	(409.99)	58,627.86	(17,201.09)	2,459,756.
Jul-13	(409.99)	58,217.87	(17,201.09)	2,442,555.
Aug-13	(409.99)	57,807.89	(17,201.09)	2,425,354.
Sep-13	(409.99)	57,397.90	(17,201.09)	2,408,153.
Oct-13	(409.99)	56,987.92	(17,201.09)	2,390,951.
Nov-13	(409.99)	56,577.93	(17,201.09)	2,373,750.
Dec-13	(409.99)	56,167.95	(17,201.09)	2,356,549.
Јал-14 Бар-14	(409.99)	55,757.96	(17,201.09)	2,339,348.
Feb-14 Mar-14	(409.99)	55,347.98	(17,201.09)	2,322,147. 2,304,946.
Apr-14	(409.99) (409.99)	54,937.99 54,528.01	(17,201.09) (17,201.09)	2,304,345.
May-14	(409.99)	54,118.02	(17,201.09)	2,2370,544.
Jun-14	(409.99)	53,708.04	(17,201.09)	2,253,343.
Jul-14	(409.99)	53,298.05	(17,201.09)	2,236,142.
Aug-14	(409.99)	52,888.07	(17,201.09)	2,218,941.
Sep-14	(409.99)	52,478.08	(17,201.09)	2,201,739.
Oct-14	(409.99)	52,068.10	(17,201.09)	2,184,538.
Nov-14	(409.99)	51,658.11	(17,201.09)	2,167,337.
Dec-14	(409.99)	51,248.13	(17,201.09)	2,150,136.
Jan-15	(409.99)	50,838.14	(17,201.09)	2,132,935.
Feb-15	(409.99)	50,428.16	(17,201.09)	2,115,734.
Mar-15	(409.99)	50,018.17	(17,201.09)	2,098,533.
Apr-15	(409.99)	49,608.19	(17,201.09)	2,081,332.
May-15	(409.99)	49,198.20	(17,201.09)	2,064,131.
Jun-15	(409.99)	48,788.22	(17,201.09)	2,046,930.
Jul-15	(409.99)	48,378.23	(17,201.09)	2,029,728.
Aug-15	(409.99)	47,968.25	(17,201.09)	2,012,527.
Sep-15	(409.99)	47,558.26	(17,201.09)	1,995,326.
Qct-15	(409.99)	47,148.28	(17,201.0 9)	1,978,125.
Nov-15	(409.99)	46,738.29	(17,201.09)	1,960,924.
Dec-15	(409.99)	46,328.31	(17,201.09)	1,943,723.
Jan-16	(409.99)	45,918.32	(17,201.09)	1,926,522.
Feb-16	(409.99)	45,508,34	(17,201.09)	1,909,321.
Mar-16	(409.99)	45,098.35	(17,201.09)	1,892,120.
Apr-16	(409.99)	44,688.37	(17,201.09)	1,874,919.
May-16	(409.99)	44,278.38	(17,201.09)	1,857,718.
Jun-16 Jul-1 8	(409.99) (409.99)	43,868.40 43,458.41	(17,201.09)	1,840,516.
Aug-16	(409.99)	43,048.43	(17,201.09) (17,201.09)	1,823,315. 1,806,114.
Sep-16	(409.99)	42,638.44	(17,201.09)	1,788,913.
Oct-16	(409.99)	42,228.46	(17,201.09)	1,771,712.
Nov-16	(409.99)	41,818.47	(17,201.09)	1,754,511.
Dec-16	(409.99)	41,408.49	(17,201.09)	1,737,310.
Jan-17	(409.99)	40,998.50	(17,201.09)	1,720,109.
Feb-17	(409.99)	40,588.52	(17,201.09)	1,702,908.
Mar-17	(409.99)	40,178.53	(17,201.09)	1,685,707.
Apr-17	(409.99)	39,768.55	(17,201.09)	1,668,506.
May-17	(409.99)	39,358.56	(17,201.09)	1,651,304.
Jun-17	(409.99)	38,948.58	(17,201.09)	1,634,103.
Jul-17	(409.99)	38,538.59	(17,201.09)	1,616,902.
Aug-17	(409.99)	38,128.61	(17,201.09)	1,599,701.
Sep-17	(409.99)	37,718.62	(17,201.09)	1,582,500.
Oct-17	(409.99)	37,308.64	(17,201.09)	1,565,299.
Nov-17	(409.99)	36,898.65	(17,201.09)	1,548,098.
Dec-17	(409.99)	36,488.67	(17,201.09)	1,530,897.
2017 Activity	(4,919.82)		(206,413.12)	

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 of Hawai'i Electric Light Company, Inc., Applicant in the above proceeding; that he makes this verification for and on behalf of Hawai'i Electric Light 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.

Subscribed and sworn to before me this 31st day of March, 2017.

Debour I dispita

DEBORAH ICHISHITA Notary Public, State of Hawai'i

My Commission expires July 18, 2020



STATE OF HAWAI'I NOTARY CERTIFICATION
Doc. Date: 3/31/2017 # of pages 152
Notary Name DEBORAH ICHISHITA First Circuit
Doc. Description: <u>Hawaii Electric Light</u>
Transmittal No. 17-03 (Decoupling)
Uchoul Schritita 3/31/17
Notary Signature Date
NIN PRANCE STILL
AOTARA AOTARA AUBLIC AUBLIC FY OF HANDING
S AUBLIC
FILL FOF HAMININ

CERTIFICATE OF SERVICE

I hereby certify that the foregoing Transmittal No. 17-03 was served on the date of filing

by hand delivery, as indicated below.

Dean Nishina 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, 2017.

HAWAIIAN ELECTRIC COMPANY, INC.

Michael Chu