Hawaiian Electric Company, Inc. • PO Box 2750 • Honolulu, HI 96840-0001

March 27, 2014

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

Dear Commissioners:

Subject: Docket No. 2011-0206
Reliability Standards Working Group
Monthly Report

Pursuant to Ordering Paragraph 3 of the Commission's Order No. 30371, filed on May 4, 2012, in the above subject proceeding, enclosed as Exhibit A is the Hawaiian Electric Companies'[1] monthly report for February 2014 on (1) system frequency control performance during month; (2) significant system events during month; and (3) curtailment of non-dispatchable renewable resources.

In addition, an electronic copy of each report is also included with this filing. These files are voluminous, and therefore, the Company is providing a compact disc ("CD") containing the electronic files to both the Commission and the Consumer Advocate. Copies of the CD will be available to any Party to this proceeding. Interested Parties should email Marisa Chun at marisa.chun@heco.com to request a copy.

If you have any questions on this matter, please contact Marisa Chun at (808) 543-4723.

Sincerely,

Daniel G. Brown
Manager
Regulatory Non-Rate Proceedings

Enclosure

cc: Service List

[1] Hawaiian Electric Company, Inc., Hawai'i Electric Light Company, Inc., and Maui Electric Company, Limited are collectively referred to as the "Hawaiian Electric Companies" or "Companies".

SERVICE LIST
(Docket No. 2011-0206)

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The Commission's Order No. 30371 (Docket No 2011-0206 – Relating To Various Matters in RSWG Process), filed May 4, 2012, ordered the following information for each island grid:

(1) System frequency control performance during month:
   a) Frequency duration plot based on the highest resolution SCADA data available for the month detailing how many seconds each power system operated at frequencies above 60 hertz and at frequencies below 60 Hz.
   b) Tabulation of the number, magnitude and duration of frequency excursions (high and low) outside normal frequency control range (59.95 to 60.05 Hz).

The following provides information with respect to items 1a) through 1b) – (all statements are current as of the month ending February 28, 2014):

1a) Frequency duration plot based on the highest resolution SCADA data available for the month detailing how many seconds each power system operated at frequencies above 60 hertz and at frequencies below 60 Hz:

The frequency duration plots for Hawaiian Electric, Maui Electric (Maui Division) and Hawai'i Electric Light based on two-second data are provided in Attachment 1, and the enclosed Excel files. Refer to the electronic files for the individual data points because the information is voluminous and does not translate well to a hard copy.

1b) Tabulation of the number, magnitude and duration of frequency excursions (high and low) outside normal frequency control range (59.95 to 60.05 Hz):

Tabulation of the number, magnitude and duration of frequency excursions outside of the frequency range of 59.95 Hz to 60.05 Hz for Hawaiian Electric, Maui Electric (Maui Division) and Hawai'i Electric Light are provided in Attachment 2, and the enclosed Excel files. Refer to the electronic files for the individual data points because the information is voluminous and does not translate well to a hard copy.

(2) Significant system events during month:
   a) Tabulation of contingency reserve activations including date and time, MW magnitude, duration, and triggering event.
   b) Tabulation of under frequency load shed activations including date and time, triggering frequency, MW magnitude, duration, and triggering event.
   c) Tabulation of demand response activations for system events, including date and time, MW magnitude, duration, and triggering event, (excluding demand response utilization for unit commitment deferral or system operations economics.)

The following provides information with respect to items 2a) through 2c) – (all statements are current as of the month ending February 28, 2014):

2a) Tabulation of contingency reserve activations including date and time, MW magnitude, duration, and triggering event:

Hawaiian Electric did not have any contingency reserve activations for the month of February. Maui Electric and Hawai'i Electric Light do not operate with contingency reserve requirements. Therefore, Attachment 3 is not being provided for this reporting period.

2b) Tabulation of under frequency load shed activations including date and time, triggering frequency, MW magnitude, duration, and triggering event:

The tabulation of under frequency load shed events is provided in Attachment 4.
Hawaiian Electric and Hawai'i Electric Light did not have any under frequency load shed events for the month of February.

2c) Tabulation of demand response activations for system events, including date and time, MW magnitude, duration, and triggering event, (excluding demand response utilization for unit commitment deferral or system operations economics.)

Hawaiian Electric did not have any demand response activations for system events for the month of February. Hawai'i Electric Light currently does not have demand response program. Maui Electric has implemented the Fast Demand Response pilot program on a limited basis. Hawai'i Electric Light plans to use the findings of Maui Electric's pilot program to help in the evaluation and development of future demand response programs. Maui Electric executes a weekly testing protocol which measures customer participation. This program is not currently used in response to actual system events. Therefore, Attachment 5 is not being provided for this reporting period.

(3) Curtailment of non-dispatchable renewable resources:
   (a) Tabulation of each curtailment event for each resource including the starting date and time, duration, megawatt hours curtailed, peak MW curtailed, and reason for curtailment.
   (b) Total MWh of non-dispatchable renewable resources curtailed for the month.

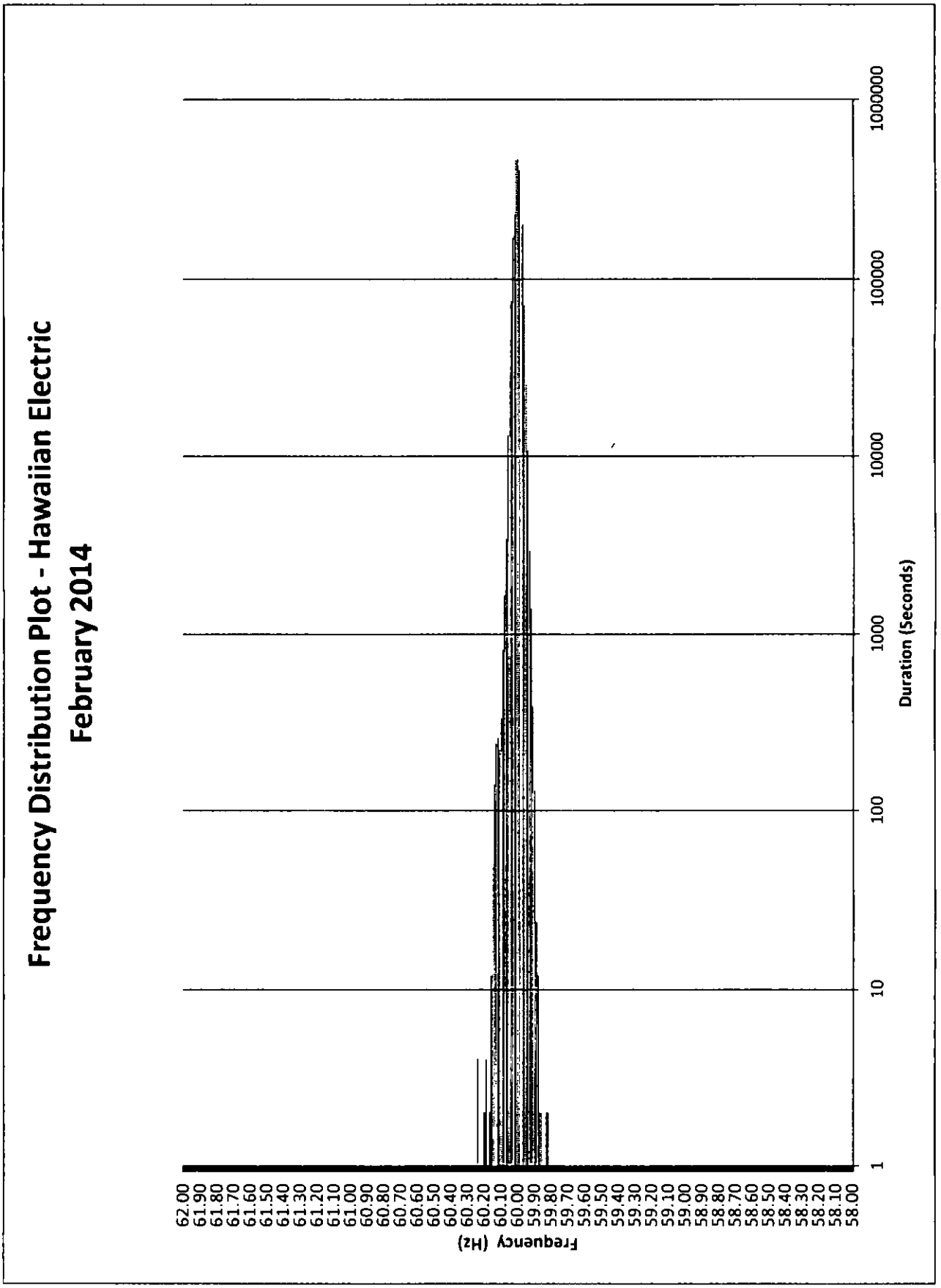
The following provides information with respect to items 3a) through 3b) – (all statements are current as of the month ending February 28, 2014):

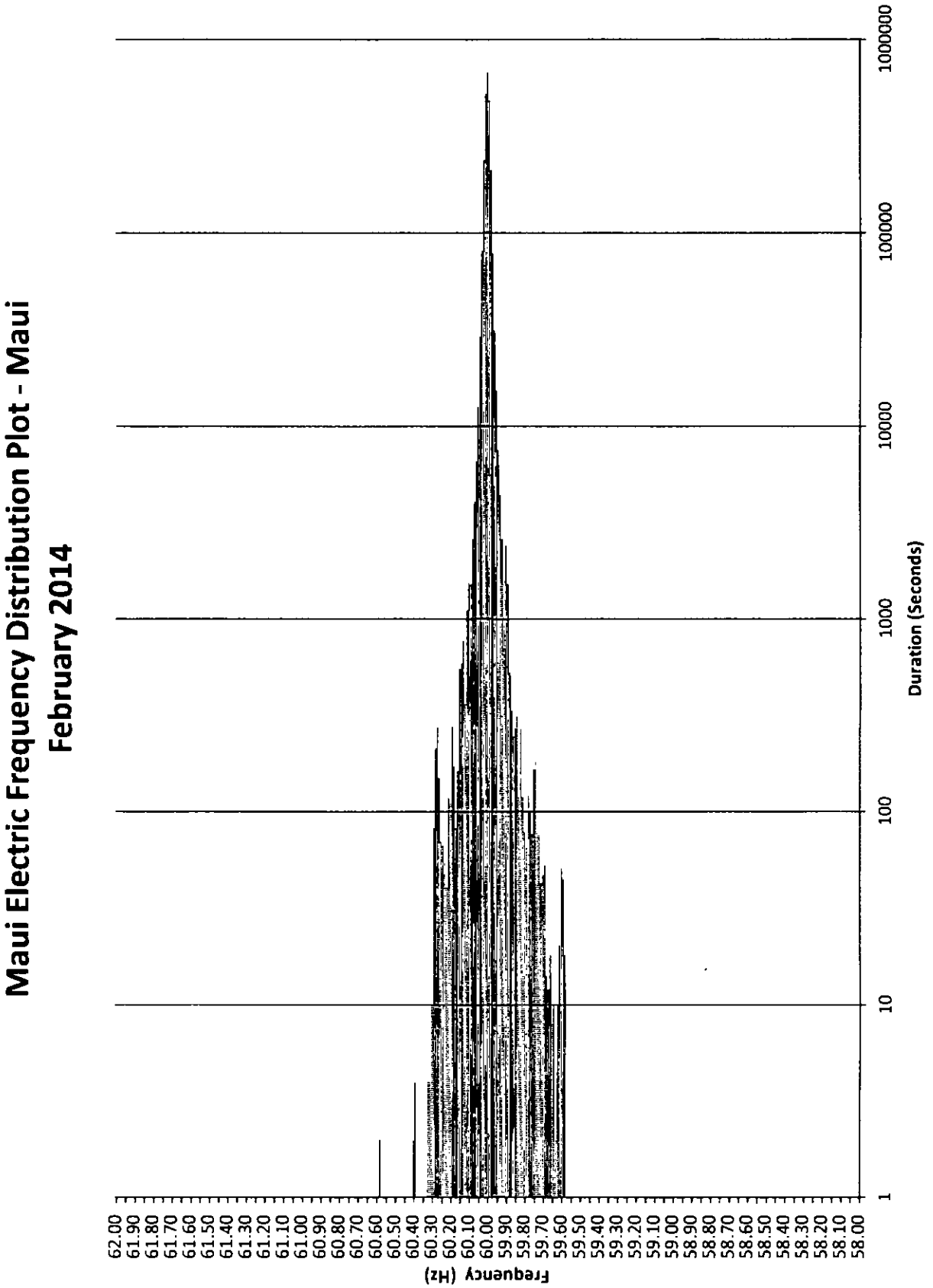
3a) Tabulation of each curtailment event for each resource including the starting date and time, duration, megawatt hours curtailed, peak MW curtailed, and reason for curtailment:

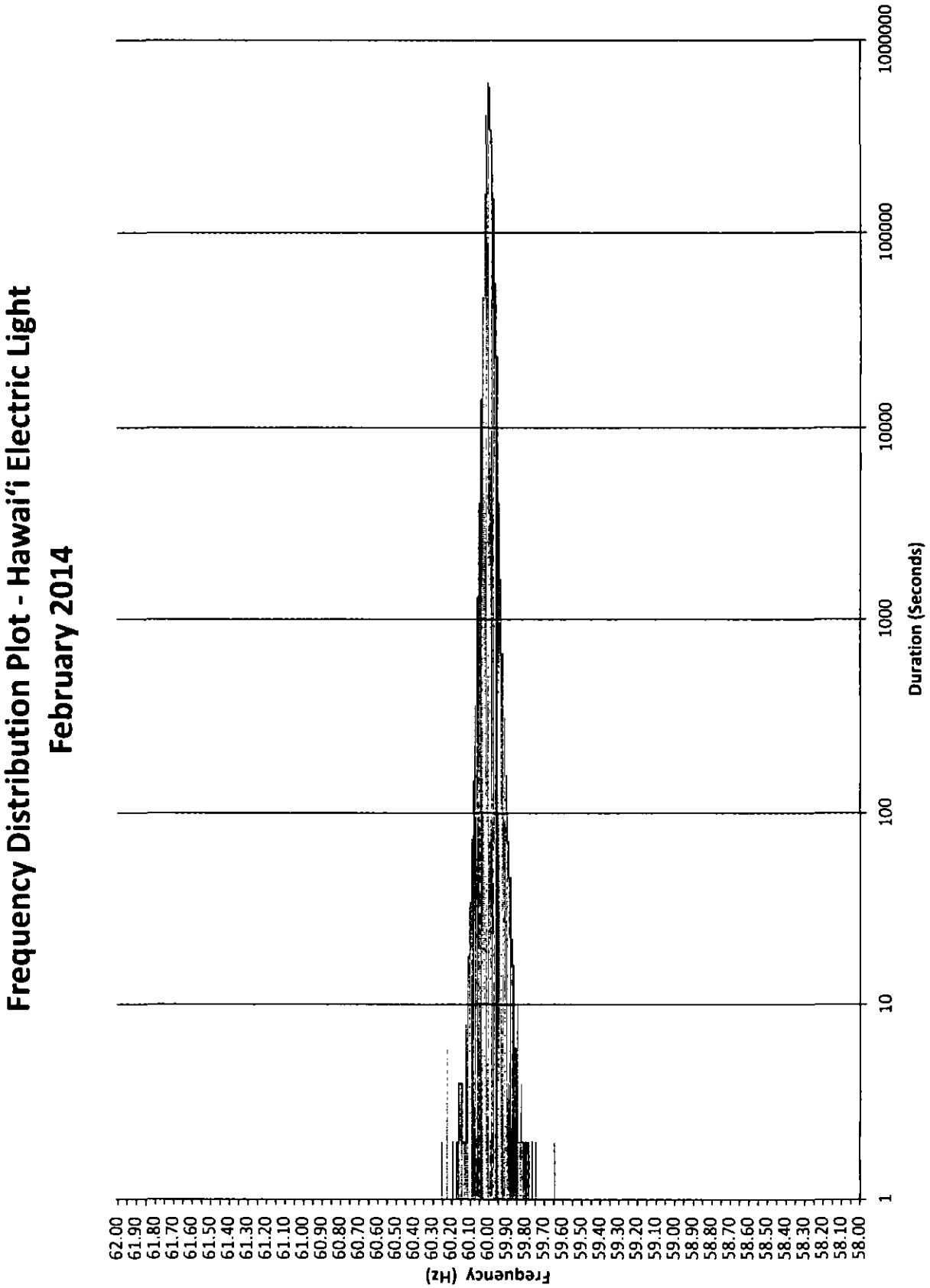
The tabulation of each curtailment event for each resource is provided in Attachment 6.

3b) Total MWh of non-dispatchable renewable resources curtailed for the month:

Curtailed MWH from non-dispatchable resources are difficult to determine due to the variability of the resource during curtailment periods. In some cases, the curtailed MWH estimates were provided by the IPPs under curtailment. Hawai'i Electric Light is not providing an estimate of curtailed MWH, as this information is not provided to Hawai'i Electric Light from the IPP. The Hawaiian Electric Companies do not make any representations as to the accuracy of the curtailed MWH. The estimated MWH of non-dispatchable resources curtailed for the month are provided in Attachment 6, corresponding to each curtailment event.


Frequency Distribution Plot - Hawaiian Electric
February 2014
Frequency (Hz)
62.00
61.90
61.80
61.70
61.60
61.50
61.40
61.30
61.20
61.10
61.00
60.90
60.80
60.70
60.60
60.50
60.40
60.30
60.20
60.10
60.00
59.90
59.80
59.70
59.60
59.50
59.40
59.30
59.20
59.10
59.00
58.90
58.80
58.70
58.60
58.50
58.40
58.30
58.20
58.10
58.00
Duration (Seconds)
1
10
100
1000
10000
100000
1000000


Maui Electric Frequency Distribution Plot - Maui
February 2014
Frequency (Hz)
62.00
61.90
61.80
61.70
61.60
61.50
61.40
61.30
61.20
61.10
61.00
60.90
60.80
60.70
60.60
60.50
60.40
60.30
60.20
60.10
60.00
59.90
59.80
59.70
59.60
59.50
59.40
59.30
59.20
59.10
59.00
58.90
58.80
58.70
58.60
58.50
58.40
58.30
58.20
58.10
58.00
Duration (Seconds)
1
10
100
1000
10000
100000
1000000


Frequency Distribution Plot - Hawai'i Electric Light
February 2014
Frequency (Hz)
62.00
61.90
61.80
61.70
61.60
61.50
61.40
61.30
61.20
61.10
61.00
60.90
60.80
60.70
60.60
60.50
60.40
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59.10
59.00
58.90
58.80
58.70
58.60
58.50
58.40
58.30
58.20
58.10
58.00
1
10
100
1000
10000
100000
1000000
Duration (Seconds)

Hawaiian Electric Frequency Excursion Statistics February 2014		
Data Rounded to the nearest	<59.95 Hz	>60.05 Hz
Number of Excursions	2019	2292
Maximum Duration (sec)	600	1058
Maximum Deviation (Hz)	59.819	60.238
Total Duration of Excursions (sec)	24280	30208

Maui Electric Frequency Excursion Statistics February 2014		
	<59.95 Hz	>60.05 Hz
Number of Excursions	1745	1303
Maximum Duration (sec)	2454	2788
Maximum Deviation (Hz)	59.5751	60.5767
Total Duration of Excursions (sec)	29828	26542

Hawai'i Electric Light Frequency Excursion Statistics February 2014		
	<59.95 Hz	>60.05 Hz
Number of Excursions	3129	768
Maximum Duration (sec)	152	42
Maximum Deviation (Hz)	59.642	60.253
Total Duration of Excursions (sec)	18424	3474

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MAUI ELECTRIC COMPANY, LIMITED
UNDERFREQUENCY LOADSHEDDING EVENTS
February 2014

				Frequency (Hz)					
Event #	IR #	Island	Date & Time	Prior to Event	Nadir	Levels UFLS Occurred	Load Shed (MW)	Duration (HH:MM)	Description
1	153	Lana'i	2/16/2014 2:46 PM	59.97	58.29	58.70	0.45	0:13	A frequency depression of 58.29 Hz occurred on Lana'i due to the loss of Generator #5 at Miki Basin Power Plant from a high jacket water temperature shut down.
2	164	Lana'i	2/20/2014 7:34 AM	60.03	58.11	58.70	0.20	1:22	A frequency depression of 58.11 Hz occurred on Lana'i due to the Manele CHP unit tripping off line.

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Hawaiian Electric Curtailment Report February 2014

Start Date/Time	Curtailment Set Point	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released	Estimated MWh of curtailed energy during event (1)	IPP	Reason for Curtailment
02/01/14 05:38	0.0	3 00	02/01/14 06 59	0	*	KLS2	Structure replacement on Kahe-CEIP 1 138kV line
02/01/14 15:20	0.0	0 00	02/01/14 16 10	0	*	KLS2	Structure replacement on Kahe-CEIP 1 138kV line
02/08/14 06:19	0 0	6 00	02/08/14 07.18	0	*	KLS2	Structure replacement on Kahe-CEIP 2 138kV line.
02/08/14 16.55	0 0	3 60	02/08/14 18 22	0	*	KLS2	Structure replacement on Kahe-CEIP 2 138kV line
02/27/14 07:53	0.0	9 80	02/27/14 08 41	0	*	KWF	Pole replacement on Koolau Kahuku 46kV line.
02/27/14 07:53	0.0	8.20	02/27/14 08 42	0	*	Makai	Pole replacement on koolau-Kahuku 46kV line.
02/27/14 19 43	0 0	0 40	02/27/14 20 24	0	*	KWF	Pole replacement on Koolau-Kahuku 46kV line
02/27/14 19 44	0 0	0 10	02/27/14 20 24	0	*	Makai	Pole replacement on Koolau Kahuku 46kV line.

KLS2 = Kalaeloa Solar 2 PV Farm
KREP = Kalaeloa Renewable Energy Park
KWF = Kahuku Wind Farm
Makai = Kawailoa Makai Wind Farm
Mauka = Kawailoa Mauka Wind Farm
(1) The estimted MWh of energy curtailed during the event is supplied by Kahuku Wind Farm and/or Kawailoa Wind Farm, and HECO does not make any representations as to its accuracy
* Data has not been provided by IPP.

Maui Electric

RSWG Maui Curtailment Report February 2014

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWh	Peak MW Curtailed	Reasons for Curtailment
2/1/2014 2:15	0:03	KWPII	0.067	7.807	AGC MAVG - calculated
2/1/2014 2:21	0:03	KWPII	0.117	9.245	AGC MAVG - calculated
2/1/2014 2:40	0:01	AWE	0.002	0.200	AGC MAVG - calculated
2/1/2014 4:38	0:01	AWE	0.003	0.300	AGC MAVG - calculated
2/1/2014 5:42	0:04	KWPII	0.076	12.304	AGC MAVG - calculated
2/1/2014 7:40	0:01	AWE	0.003	0.200	AGC MAVG - calculated
2/1/2014 10:44	0:01	AWE	0.002	0.300	AGC MAVG - calculated
2/1/2014 11:26	0:06	KWPII	0.089	19.886	AGC MAVG - calculated
2/1/2014 12:04	0:03	KWPII	0.046	19.022	AGC MAVG - calculated
2/1/2014 12:08	0:01	KWPII	0.002	17.653	AGC MAVG - calculated
2/1/2014 12:10	0:02	KWPII	0.021	16.970	AGC MAVG - calculated
2/1/2014 12:15	0:01	KWPII	0.019	16.958	AGC MAVG - calculated
2/1/2014 12:19	0:07	KWPII	0.127	18.510	AGC MAVG - calculated
2/1/2014 12:32	0:05	KWPII	0.073	17.457	AGC MAVG - calculated
2/1/2014 12:41	0:01	KWPII	0.007	16.540	AGC MAVG - calculated
2/1/2014 12:51	0:01	KWPII	0.014	18.321	AGC MAVG - calculated
2/1/2014 12:56	0:02	KWPII	0.011	17.089	AGC MAVG - calculated
2/1/2014 13:20	0:01	KWPII	0.015	16.885	AGC MAVG - calculated
2/1/2014 13:30	0:02	AWE	0.006	0.300	AGC MAVG - calculated
2/1/2014 18:49	0:01	AWE	0.003	0.200	AGC MAVG - calculated
2/1/2014 19:20	0:01	AWE	0.002	0.200	AGC MAVG - calculated
2/2/2014 2:43	0:09	KWPII	0.684	17.133	AGC MAVG - calculated
2/2/2014 2:53	0:08	KWPII	0.170	15.912	AGC MAVG - calculated
2/2/2014 3:03	1:41	KWPII	10.851	15.474	AGC MAVG - calculated and AGC MAVG - entered - Maintaining Regulating Reserves
2/2/2014 3:07	0:01	AWE	0.003	0.300	AGC MAVG - entered - Maintaining Regulating Reserves
2/2/2014 5:26	0:02	KWPII	0.049	12.192	AGC MAVG - calculated
2/2/2014 5:29	0:01	KWPII	0.017	11.671	AGC MAVG - calculated
2/2/2014 5:36	0:01	KWPII	0.012	12.177	AGC MAVG - calculated
2/2/2014 15:11	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/2/2014 15:58	0:01	KWP	0.001	0.032	AGC MAVG - calculated
2/2/2014 20:09	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/2/2014 22:42	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/2/2014 22:58	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/3/2014 1:29	0:04	KWPII	0.048	5.255	Operating Conditions on Company's System
2/3/2014 1:29	0:03	KWP	0.015	0.912	Operating Conditions on Company's System
2/3/2014 1:57	0:01	AWE	0.002	0.100	AGC MAVG - calculated
2/3/2014 2:26	0:11	KWPII	0.207	9.316	AGC MAVG - calculated
2/3/2014 2:39	0:08	KWPII	0.074	10.478	AGC MAVG - calculated
2/3/2014 2:58	0:03	KWPII	0.031	12.207	AGC MAVG - calculated
2/3/2014 3:30	0:01	KWPII	0.006	9.441	AGC MAVG - calculated
2/3/2014 4:02	0:09	KWPII	0.124	15.654	AGC MAVG - calculated
2/3/2014 8:17	0:01	AWE	0.003	0.300	AGC MAVG - calculated
2/3/2014 12:00	0:01	KWPII	0.003	0.507	AGC MAVG - calculated and Testing
2/3/2014 12:00	0:01	AWE	0.007	16.500	AGC MAVG - calculated and Testing
2/3/2014 22:31	0:01	AWE	0.005	0.300	AGC MAVG - calculated and Good Engineering and Operating Practices
2/4/2014 1:30	0:02	KWPII	0.007	2.648	AGC MAVG - calculated
2/4/2014 1:59	0:01	KWPII	0.001	0.084	AGC MAVG - calculated
2/4/2014 1:59	0:01	AWE	0.004	14.800	AGC MAVG - calculated
2/4/2014 21:12	0:01	KWP	0.001	0.032	AGC MAVG - calculated
2/4/2014 21:14	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/4/2014 22:26	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/4/2014 23:07	0:01	AWE	0.001	15.900	AGC MAVG - calculated
2/4/2014 23:10	0:01	AWE	0.003	17.200	AGC MAVG - calculated
2/5/2014 0:04	0:11	KWPII	0.271	7.049	AGC MAVG - calculated
2/5/2014 9:03	0:01	KWP	0.000	0.016	AGC MAVG - calculated, Good Engineering and Operating Practices, and Testing
2/5/2014 9:29	0:01	AWE	0.003	0.200	AGC MAVG - calculated, Good Engineering and Operating Practices, and Testing
2/5/2014 10:25	0:01	AWE	0.003	0.200	AGC MAVG - calculated, Good Engineering and Operating Practices, and Testing
2/5/2014 12:47	0:01	AWE	0.003	0.300	AGC MAVG - calculated and Good Engineering and Operating Practices
2/5/2014 17:55	0:01	AWE	0.006	0.400	AGC MAVG - calculated
2/5/2014 19:48	0:01	AWE	0.003	0.200	AGC MAVG - calculated
2/5/2014 19:55	0:01	AWE	0.003	0.200	AGC MAVG - calculated
2/5/2014 20:14	0:02	AWE	0.004	0.200	AGC MAVG - calculated
2/5/2014 21:18	0:01	AWE	0.005	0.300	AGC MAVG - calculated
2/5/2014 22:04	0:01	AWE	0.003	0.200	AGC MAVG - calculated
2/5/2014 23:32	0:01	KWP	0.002	0.098	AGC MAVG - calculated
2/5/2014 23:35	0:01	AWE	0.002	0.100	AGC MAVG - calculated
2/6/2014 7:49	0:01	KWP	0.001	0.032	AGC MAVG - calculated
2/6/2014 10:31	0:01	KWP	0.002	0.112	AGC MAVG - calculated
2/6/2014 11:27	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/6/2014 11:30	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/6/2014 18:31	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/6/2014 16:45	0:01	AWE	0.001	0.200	AGC MAVG - calculated
2/7/2014 1:20	0:05	KWPII	0.215	13.875	AGC MAVG - calculated
2/7/2014 1:26	0:01	KWPII	0.017	13.787	AGC MAVG - calculated
2/7/2014 2:08	0:58	KWPII	11.158	18.904	AGC MAVG - calculated
2/7/2014 2:22	0:09	AWE	0.266	3.000	AGC MAVG - calculated
2/7/2014 2:34	0:14	AWE	0.095	3.500	AGC MAVG - calculated
2/7/2014 2:49	0:02	AWE	0.001	2.900	AGC MAVG - calculated
2/7/2014 2:54	0:06	AWE	0.009	3.200	AGC MAVG - calculated
2/7/2014 3:07	0:38	KWPII	6.005	12.460	AGC MAVG - calculated
2/7/2014 3:16	0:03	AWE	0.009	5.400	AGC MAVG - calculated
2/7/2014 3:20	0:01	AWE	0.000	5.400	AGC MAVG - calculated
2/7/2014 3:22	0:01	AWE	0.003	5.900	AGC MAVG - calculated
2/7/2014 3:27	0:03	AWE	0.039	8.000	AGC MAVG - calculated
2/7/2014 3:31	0:12	AWE	0.486	15.600	AGC MAVG - calculated
2/7/2014 4:26	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/7/2014 6:17	0:01	AWE	0.003	0.200	AGC MAVG - calculated
2/7/2014 6:30	0:02	KWPII	0.053	16.368	AGC MAVG - calculated
2/7/2014 13:06	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/7/2014 15:43	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/8/2014 22:07	0:01	KWPII	0.001	20.213	AGC MAVG - calculated
2/8/2014 22:23	0:03	KWPII	0.012	19.970	AGC MAVG - calculated
2/8/2014 22:37	0:05	KWPII	0.088	19.248	AGC MAVG - calculated
2/8/2014 22:43	0:03	KWPII	0.095	19.040	AGC MAVG - calculated
2/8/2014 22:50	1:42	KWPII	17.307	20.621	AGC MAVG - calculated and AGC MAVG - entered - Maintaining Regulating Reserves
2/9/2014 0:18	0:01	AWE	0.001	10.500	AGC MAVG - calculated
2/9/2014 0:23	0:01	AWE	0.000	5.200	AGC MAVG - calculated
2/9/2014 0:27	0:01	AWE	0.003	5.900	AGC MAVG - calculated
2/9/2014 0:31	0:01	AWE	0.006	4.600	AGC MAVG - entered - Maintaining Regulating Reserves
2/9/2014 0:33	0:30	AWE	0.969	5.000	AGC MAVG - entered - Maintaining Regulating Reserves
2/9/2014 0:34	0:40	KWPII	12.511	20.342	AGC MAVG - entered - Maintaining Regulating Reserves and AGC MAVG - calculated
2/9/2014 1:08	0:01	AWE	0.001	4.600	AGC MAVG - calculated
2/9/2014 1:15	0:17	KWPII	1.911	11.019	AGC MAVG - entered - Maintaining Regulating Reserves, AGC MAVG - calculated, and AGC MAVG - entered - Maintaining Regulating Reserves
2/9/2014 1:26	0:06	AWE	0.067	10.000	AGC MAVG - calculated and AGC MAVG - entered - Maintaining Regulating Reserves
2/9/2014 1:33	0:35	AWE	2.957	10.400	AGC MAVG - entered - Maintaining Regulating Reserves
2/9/2014 1:33	0:40	KWPII	4.435	9.757	AGC MAVG - entered - Maintaining Regulating Reserves and AGC MAVG - calculated
2/9/2014 2:09	0:01	AWE	0.046	10.600	AGC MAVG - calculated
2/9/2014 2:14	0:02	KWPII	0.025	2.139	AGC MAVG - calculated
2/9/2014 2:32	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/9/2014 2:45	0:01	AWE	0.001	18.800	AGC MAVG - calculated
2/9/2014 2:47	0:01	AWE	0.001	18.600	AGC MAVG - calculated

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Start Date and Time	Duration (H:M)	IPP Curtailed	Estimated Curtailed MWh (b)	Peak MW Curtailed (c)	Reasons for Curtailment
2/9/2014 2:53	0:01	AWE	0.001	18,600	AGC MAVG - calculated
2/9/2014 3:10	0:01	AWE	0.002	18,900	AGC MAVG - calculated
2/9/2014 3:21	0:01	KWPII	0.000	0.008	AGC MAVG - calculated
2/9/2014 3:24	0:03	KWPII	0.007	0.223	AGC MAVG - calculated
2/9/2014 3:28	0:03	KWPII	0.003	0.244	AGC MAVG - calculated
2/9/2014 3:37	0:01	KWPII	0.001	0.126	AGC MAVG - calculated
2/9/2014 3:42	0:01	AWE	0.001	17,800	AGC MAVG - calculated
2/9/2014 3:47	0:01	AWE	0.001	17,900	AGC MAVG - calculated
2/9/2014 4:14	0:01	AWE	0.000	19,800	AGC MAVG - calculated
2/9/2014 5:39	0:01	KWP	0.001	0.032	AGC MAVG - calculated
2/9/2014 11:10	0:01	KWPII	0.001	0.758	AGC MAVG - calculated
2/9/2014 11:13	0:05	KWPII	0.029	0.897	AGC MAVG - calculated
2/9/2014 11:19	0:08	KWPII	0.089	0.894	AGC MAVG - calculated
2/9/2014 11:23	0:01	AWE	0.000	20,000	AGC MAVG - calculated
2/9/2014 11:26	0:01	AWE	0.001	20,400	AGC MAVG - calculated
2/9/2014 11:29	0:02	KWPII	0.010	0.806	AGC MAVG - calculated
2/9/2014 11:30	0:01	KWP	0.000	0.018	AGC MAVG - calculated
2/9/2014 11:33	0:26	KWPII	0.161	0.834	AGC MAVG - calculated
2/9/2014 11:35	0:01	KWP	0.001	0.064	AGC MAVG - calculated
2/9/2014 11:39	0:01	AWE	0.000	20,800	AGC MAVG - calculated
2/9/2014 11:47	0:01	AWE	0.001	20,500	AGC MAVG - calculated
2/9/2014 12:02	0:01	KWPII	0.001	0.072	AGC MAVG - calculated
2/9/2014 12:02	0:01	AWE	0.001	20,800	AGC MAVG - calculated
2/9/2014 13:16	0:04	KWPII	0.020	1.154	AGC MAVG - calculated
2/9/2014 13:21	0:07	KWPII	0.070	2.022	AGC MAVG - calculated
2/9/2014 13:29	0:03	KWPII	0.014	2.434	AGC MAVG - calculated
2/9/2014 13:33	0:07	KWPII	0.106	2.695	AGC MAVG - calculated
2/9/2014 13:42	0:02	KWPII	0.001	1.976	AGC MAVG - calculated
2/9/2014 13:45	0:03	KWPII	0.010	2.140	AGC MAVG - calculated
2/9/2014 13:49	0:01	KWPII	0.002	2.106	AGC MAVG - calculated
2/9/2014 14:18	0:06	KWPII	0.048	3.846	AGC MAVG - calculated
2/9/2014 14:25	0:02	KWPII	0.018	3.604	AGC MAVG - calculated
2/9/2014 15:49	0:02	KWP	0.001	0.018	AGC MAVG - calculated
2/9/2014 17:43	0:01	KWP	0.002	0.144	AGC MAVG - calculated
2/10/2014 0:54	0:01	AWE	0.004	0.400	AGC MAVG - calculated
2/10/2014 6:28	0:01	AWE	0.007	0.400	AGC MAVG - calculated
2/10/2014 13:13	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/11/2014 5:27	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/11/2014 5:32	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/11/2014 5:35	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/11/2014 9:15	0:01	KWP	0.000	0.016	AGC MAVG - calculated and Good Engineering and Operating Practices
2/11/2014 9:50	0:01	KWP	0.001	0.032	AGC MAVG - calculated and Good Engineering and Operating Practices
2/11/2014 10:24	0:01	KWP	0.000	0.016	AGC MAVG - calculated and Good Engineering and Operating Practices
2/11/2014 12:47	0:01	KWP	0.000	0.016	AGC MAVG - calculated, Good Engineering and Operating Practices, and Testing
2/11/2014 13:31	0:01	KWP	0.000	0.016	AGC MAVG - calculated and Good Engineering and Operating Practices
2/11/2014 15:37	0:01	KWP	0.001	0.032	AGC MAVG - calculated and Good Engineering and Operating Practices
2/12/2014 2:28	0:01	KWPII	0.001	0.055	AGC MAVG - calculated
2/12/2014 11:30	0:01	KWP	0.001	0.048	AGC MAVG - calculated
2/13/2014 0:14	0:01	KWPII	0.000	0.003	AGC MAVG - calculated
2/13/2014 5:45	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/13/2014 8:14	0:01	KWP	0.001	0.064	AGC MAVG - calculated
2/13/2014 21:22	0:01	KWP	0.001	0.032	AGC MAVG - calculated
2/14/2014 2:28	0:01	KWPII	0.002	0.094	AGC MAVG - calculated
2/14/2014 4:44	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/14/2014 10:22	0:01	KWP	0.000	0.016	AGC MAVG - calculated and Good Engineering and Operating Practices
2/14/2014 10:30	0:01	KWP	0.000	0.016	AGC MAVG - calculated and Good Engineering and Operating Practices
2/14/2014 15:14	0:01	KWPII	0.001	15,190	AGC MAVG - calculated
2/14/2014 17:01	0:08	KWPII	0.168	20,409	AGC MAVG - calculated
2/14/2014 17:10	0:24	KWPII	1.251	20,555	AGC MAVG - calculated
2/14/2014 17:36	0:04	KWPII	0.132	20,853	AGC MAVG - calculated
2/14/2014 17:41	0:37	KWPII	1.756	20,708	AGC MAVG - calculated
2/14/2014 18:19	0:09	KWPII	0.406	20,707	AGC MAVG - calculated
2/14/2014 18:35	0:13	KWPII	0.597	20,708	AGC MAVG - calculated
2/14/2014 23:23	8:36	KWPII	147.893	20,708	AGC MAVG - calculated AGC MAVG - entered - Excess Energy AGC MAVG - calculated, and Good Engineering and Operating Practices
2/15/2014 0:06	0:01	AWE	0.003	0.200	AGC MAVG - calculated
2/15/2014 1:24	0:01	AWE	0.002	0.100	AGC MAVG - calculated
2/15/2014 1:33	2:42	SA	Data is not available	Data is not available	AGC MAVG - entered - Excess Energy and AGC MAVG - calculated
2/15/2014 1:34	4:03	AWE	30.114	21,000	AGC MAVG - entered - Excess Energy and AGC MAVG - calculated
2/15/2014 1:34	2:39	MH	Data is not available	Data is not available	AGC MAVG - entered - Excess Energy and AGC MAVG - calculated
2/15/2014 1:38	0:02	KWP	0.004	28,384	AGC MAVG - entered - Excess Energy
2/15/2014 1:39	0:02	KWP	0.015	28,432	AGC MAVG - entered - Excess Energy
2/15/2014 1:42	0:20	KWP	0.298	28,448	AGC MAVG - entered - Excess Energy and AGC MAVG - calculated
2/15/2014 2:03	2:06	KWP	9.326	28,496	AGC MAVG - calculated
2/15/2014 4:11	0:02	KWP	0.019	28,272	AGC MAVG - calculated
2/15/2014 4:16	0:03	KWP	0.017	28,432	AGC MAVG - calculated
2/15/2014 5:42	0:02	AWE	0.012	18,300	AGC MAVG - calculated
2/15/2014 5:45	0:22	AWE	0.850	21,000	AGC MAVG - calculated
2/15/2014 6:14	0:01	AWE	0.000	20,700	AGC MAVG - calculated
2/15/2014 8:05	0:01	KWPII	0.007	19,781	AGC MAVG - calculated
2/15/2014 21:10	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/16/2014 3:13	0:09	KWPII	0.048	0.424	AGC MAVG - calculated
2/16/2014 3:14	0:01	AWE	0.001	20,800	AGC MAVG - calculated
2/16/2014 3:16	0:01	AWE	0.000	20,500	AGC MAVG - calculated
2/16/2014 3:18	0:01	AWE	0.001	19,800	AGC MAVG - calculated
2/16/2014 3:21	0:01	AWE	0.008	19,600	AGC MAVG - calculated
2/16/2014 3:23	0:02	KWPII	0.011	0.442	AGC MAVG - calculated
2/16/2014 3:26	0:04	KWPII	0.006	0.294	AGC MAVG - calculated
2/16/2014 3:29	0:01	AWE	0.001	20,300	AGC MAVG - calculated
2/16/2014 3:32	0:01	KWPII	0.001	0.108	AGC MAVG - calculated
2/16/2014 3:37	0:01	AWE	0.000	20,700	AGC MAVG - calculated
2/16/2014 9:50	0:01	KWPII	0.000	0.009	AGC MAVG - calculated
2/16/2014 10:48	0:01	KWPII	0.000	0.059	AGC MAVG - calculated
2/16/2014 15:00	0:01	KWPII	0.000	0.006	AGC MAVG - calculated
2/16/2014 15:18	0:01	KWPII	0.001	0.095	AGC MAVG - calculated
2/16/2014 15:52	0:01	KWPII	0.000	0.004	AGC MAVG - calculated
2/16/2014 20:04	0:01	KWP	0.003	0.176	AGC MAVG - calculated
2/16/2014 23:15	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/17/2014 2:29	0:10	KWPII	0.268	8.954	AGC MAVG - calculated
2/17/2014 2:41	0:02	KWPII	0.013	7.595	AGC MAVG - calculated
2/17/2014 2:45	0:41	KWPII	3.344	12,771	AGC MAVG - calculated
2/17/2014 3:12	0:05	AWE	0.047	17,200	AGC MAVG - calculated
2/17/2014 3:21	0:01	AWE	0.006	17,300	AGC MAVG - calculated
2/17/2014 3:40	1:15	KWPII	6.035	13,598	AGC MAVG - calculated
2/17/2014 13:56	0:01	AWE	0.003	0.200	AGC MAVG - calculated
2/17/2014 18:24	0:01	AWE	0.002	0.100	AGC MAVG - calculated and Testing
2/18/2014 1:15	0:03	KWPII	0.027	3.781	AGC MAVG - calculated
2/18/2014 1:20	0:18	KWPII	0.650	5.030	AGC MAVG - calculated
2/18/2014 1:26	0:02	AWE	0.001	20,000	AGC MAVG - calculated
2/18/2014 1:43	1:38	KWPII	8.646	8.173	AGC MAVG - calculated
2/18/2014 1:48	0:21	AWE	0.513	20,000	AGC MAVG - calculated
2/18/2014 2:12	0:02	AWE	0.000	20,800	AGC MAVG - calculated

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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWh	Peak MW Curtailed	Reasons for Curtailment
2/18/2014 2:18	0:10	AWE	0.201	20.000	AGC MAVG - calculated
2/18/2014 2:32	0:39	AWE	1.234	20.000	AGC MAVG - calculated
2/18/2014 3:12	0:03	AWE	0.015	18.300	AGC MAVG - calculated
2/18/2014 3:23	0:08	KWPII	0.069	0.973	AGC MAVG - calculated
2/18/2014 3:30	0:07	KWPII	0.050	0.966	AGC MAVG - calculated
2/18/2014 3:31	0:01	AWE	0.001	18.700	AGC MAVG - calculated
2/18/2014 5:16	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/18/2014 8:06	0:01	KWP	0.001	0.032	AGC MAVG - calculated
2/18/2014 8:33	0:01	KWP	0.002	0.144	AGC MAVG - calculated
2/18/2014 8:56	0:01	AWE	0.002	0.100	AGC MAVG - calculated
2/18/2014 11:33	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/18/2014 12:16	0:01	AWE	0.002	0.100	AGC MAVG - calculated
2/19/2014 23:07	0:01	KWPII	0.007	10.895	AGC MAVG - calculated
2/20/2014 13:58	0:01	KWPII	0.001	0.042	AGC MAVG - calculated
2/20/2014 14:07	0:01	KWPII	0.000	0.012	AGC MAVG - calculated
2/20/2014 17:56	0:02	AWE	0.047	6.300	AGC MAVG - calculated and Testing
2/20/2014 18:41	0:01	KWPII	0.007	2.012	AGC MAVG - calculated
2/21/2014 15:35	0:01	AWE	0.002	0.100	AGC MAVG - calculated and Good Engineering and Operating Practices
2/21/2014 18:14	0:01	AWE	0.002	0.100	AGC MAVG - calculated and Good Engineering and Operating Practices
2/21/2014 23:32	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/22/2014 0:01	0:01	AWE	0.002	0.100	AGC MAVG - calculated
2/23/2014 19:46	0:01	AWE	0.003	0.200	AGC MAVG - calculated and Good Engineering and Operating Practices
2/23/2014 21:24	0:01	AWE	0.005	0.300	AGC MAVG - calculated
2/24/2014 0:10	0:01	AWE	0.005	0.300	AGC MAVG - calculated and Good Engineering and Operating Practices
2/24/2014 3:14	0:01	KWPII	0.024	12.108	AGC MAVG - calculated
2/24/2014 3:23	0:07	KWPII	0.330	16.825	AGC MAVG - calculated
2/24/2014 4:04	0:01	KWPII	0.004	17.455	AGC MAVG - calculated
2/24/2014 7:23	0:01	KWP	0.001	0.048	AGC MAVG - calculated
2/24/2014 10:37	0:01	AWE	0.005	0.300	AGC MAVG - calculated
2/24/2014 17:03	0:01	KWP	0.001	0.032	AGC MAVG - calculated
2/24/2014 17:48	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/25/2014 12:36	0:01	KWPII	0.001	0.083	AGC MAVG - calculated and Good Engineering and Operating Practices
2/25/2014 22:32	0:01	AWE	0.002	0.100	AGC MAVG - calculated
2/26/2014 8:59	0:01	AWE	0.002	0.100	AGC MAVG - calculated
2/26/2014 22:45	0:03	KWPII	0.015	20.590	AGC MAVG - calculated
2/26/2014 22:54	6:38	KWPII	110.193	20.668	AGC MAVG - calculated AGC MAVG - entered - Excess Energy, AGC MAVG - calculated, AGC MAVG - entered - Excess Energy, and AGC MAVG - calculated
2/27/2014 0:24	0:53	MH	Data is not available	Data is not available	AGC MAVG - entered - Excess Energy and AGC MAVG - calculated
2/27/2014 0:28	0:01	KWP	0.012	25.776	AGC MAVG - entered - Excess Energy
2/27/2014 0:31	0:03	KWP	0.029	26.192	AGC MAVG - entered - Excess Energy
2/27/2014 0:35	0:01	KWP	0.042	26.848	AGC MAVG - entered - Excess Energy
2/27/2014 0:37	0:03	KWP	0.088	26.480	AGC MAVG - entered - Excess Energy
2/27/2014 0:41	0:03	KWP	0.052	25.536	AGC MAVG - entered - Excess Energy
2/27/2014 0:45	0:03	KWP	0.088	25.632	AGC MAVG - entered - Excess Energy
2/27/2014 0:49	0:03	KWP	0.211	26.432	AGC MAVG - entered - Excess Energy
2/27/2014 0:53	3:15	KWP	24.288	29.136	AGC MAVG - entered - Excess Energy
2/27/2014 1:07	0:01	AWE	0.003	0.200	AGC MAVG - entered - Excess Energy
2/27/2014 1:09	0:09	AWE	0.033	0.300	AGC MAVG - entered - Excess Energy and AGC MAVG - calculated
2/27/2014 1:20	0:01	AWE	0.003	0.200	AGC MAVG - calculated
2/27/2014 1:33	0:06	AWE	0.013	0.200	AGC MAVG - entered - Excess Energy
2/27/2014 2:26	0:01	AWE	0.002	0.100	AGC MAVG - entered - Excess Energy
2/27/2014 3:31	0:01	AWE	0.002	0.100	AGC MAVG - entered - Excess Energy
2/27/2014 4:09	0:04	KWP	0.059	19.216	AGC MAVG - entered - Excess Energy
2/27/2014 4:14	0:17	KWP	0.499	23.392	AGC MAVG - entered - Excess Energy
2/27/2014 5:01	0:01	KWP	0.005	23.280	AGC MAVG - calculated
2/27/2014 5:32	0:11	KWPII	0.895	18.878	AGC MAVG - calculated
2/27/2014 5:45	0:11	KWPII	0.281	18.604	AGC MAVG - calculated
2/27/2014 5:57	0:02	KWPII	0.016	18.696	AGC MAVG - calculated
2/27/2014 6:01	0:04	KWPII	0.037	18.055	AGC MAVG - calculated
2/27/2014 7:14	0:01	KWPII	0.006	20.003	AGC MAVG - calculated
2/27/2014 7:22	0:01	KWPII	0.021	18.006	AGC MAVG - calculated
2/27/2014 7:34	0:01	KWPII	0.006	20.194	AGC MAVG - calculated
2/27/2014 7:36	0:01	KWPII	0.018	20.135	AGC MAVG - calculated
2/27/2014 7:38	0:14	KWPII	0.598	20.338	AGC MAVG - calculated
2/27/2014 7:53	0:10	KWPII	0.485	20.331	AGC MAVG - calculated
2/27/2014 8:05	0:06	KWPII	0.127	19.883	AGC MAVG - calculated
2/27/2014 8:14	0:01	KWPII	0.009	19.994	AGC MAVG - calculated
2/27/2014 8:18	0:04	KWPII	0.101	20.214	AGC MAVG - calculated
2/27/2014 8:28	0:01	KWPII	0.010	20.342	AGC MAVG - calculated
2/27/2014 8:44	0:04	KWPII	0.041	19.215	AGC MAVG - calculated
2/27/2014 8:49	0:02	KWPII	0.020	19.121	AGC MAVG - calculated
2/27/2014 8:56	0:01	KWPII	0.020	18.942	AGC MAVG - calculated
2/27/2014 9:06	0:03	KWPII	0.040	18.629	AGC MAVG - calculated
2/27/2014 9:14	0:05	KWPII	0.045	19.301	AGC MAVG - calculated
2/27/2014 15:32	0:01	KWP	0.001	0.032	AGC MAVG - calculated
2/27/2014 15:34	0:01	KWP	0.001	0.032	AGC MAVG - calculated
2/27/2014 15:57	0:01	KWP	0.000	0.016	AGC MAVG - calculated
2/28/2014 16:02	0:01	KWPII	0.039	17.769	AGC MAVG - calculated
2/28/2014 20:44	0:01	AWE	0.002	0.100	AGC MAVG - calculated
2/28/2014 21:43	0:01	AWE	0.002	0.100	AGC MAVG - calculated
2/28/2014 22:18	0:01	AWE	0.002	0.100	AGC MAVG - calculated

Notes

- Curtailment for Kaheawa Wind Power ("KWP") Auwahi Wind Energy ("AWE"), and Kaheawa Wind Power II ("KWPII") is now controlled by Maui Electric's Automatic Generation Control System ("AGC") The AGC curtailment control automatically calculates the amount of Maximum Allowable Variable Generation ("MAVG") that Maui Electric can accept into the Maui system, based on the system current available variable generation ("CAVG"), regulating reserve down requirement ("RRDR") and available regulating reserve down ("ARRD") Thus the AGC MAVG - calculated is equal to CAVG less (RRDR less ARRD) Additionally, the AGC curtailment control allows the Maui Electric operator to enter an AGC MAVG value The AGC curtailment control will employ the lesser of the AGC MAVG - calculated and AGC MAVG - entered values in the control logic

- Maui Electric upgraded the SCADA controls to permit the curtailment of the Makila Hydroelectric ("MH") facility to Net Zero Protocol and uncurtailment of the MH facility without opening and closing the Maui Electric and MH interconnection circuit breaker

- On November 22, 2013, Maui Electric established Boreal Solar, LLC ("BS") curtailment control BS is in the same curtailment seniority group as AAAAA Rent-A-Space Maui LTD ("5A")

- The Estimated Curtailed MWH and Peak MW Curtailed are calculated with information provided by AWE, KWP and KWPII Maui Electric does not make any representation as to its accuracy

- The data to calculate the Estimated Curtailed MWH and Peak MW Curtailed is not provided by 5A, BS, or MH

Maui Electric

Lana'i Curtailment Report February 2014

Start Date/Time	Stop Date/Time	Duration (h mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
2/1/2014 9 10	2/1/2014 9 10	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 9 13	2/1/2014 9 15	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 9 39	2/1/2014 9 41	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 9 43	2/1/2014 9 44	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 9:47	2/1/2014 9 48	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 9 57	2/1/2014 9 58	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 10 08	2/1/2014 10 11	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 10 14	2/1/2014 10 16	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 10 22	2/1/2014 10 32	0 11	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 10 35	2/1/2014 10 38	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 10 41	2/1/2014 10 41	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 10 44	2/1/2014 10 44	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 10:52	2/1/2014 10 52	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 10:56	2/1/2014 10 57	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 11 00	2/1/2014 11 01	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 11:26	2/1/2014 11 29	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 11:31	2/1/2014 11 31	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 12 00	2/1/2014 12 03	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 12 06	2/1/2014 12 06	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 12.12	2/1/2014 12.12	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 12:44	2/1/2014 12 44	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 12 59	2/1/2014 13 00	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 13 02	2/1/2014 13 08	0 07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 13 10	2/1/2014 13.11	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/1/2014 13 18	2/1/2014 13 22	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 8 06	2/2/2014 8 06	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 8 35	2/2/2014 8 37	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 8 39	2/2/2014 8 56	0.18	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 8 56	2/2/2014 9 07	0.10	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 9 17	2/2/2014 9 17	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 10 09	2/2/2014 10 12	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 10:14	2/2/2014 10 21	0 08	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 12 12	2/2/2014 12 22	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 12 46	2/2/2014 12 51	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 13 09	2/2/2014 13 10	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 13 13	2/2/2014 13 13	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 13 18	2/2/2014 13 30	0:13	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 13 32	2/2/2014 13 36	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 13 40	2/2/2014 13 42	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 13 44	2/2/2014 13 44	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 14 03	2/2/2014 14 03	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 14 31	2/2/2014 14 31	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 14 48	2/2/2014 14 48	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 14 54	2/2/2014 14.56	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 14 59	2/2/2014 15 03	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 15 05	2/2/2014 15 09	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 15 12	2/2/2014 15 12	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 15 23	2/2/2014 15 25	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 15 32	2/2/2014 15 32	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 16 04	2/2/2014 16 07	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 16 09	2/2/2014 16.10	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 16:13	2/2/2014 16.13	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 16 21	2/2/2014 16 21	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 16 45	2/2/2014 16 47	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 16 49	2/2/2014 16 50	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/2/2014 17.01	2/2/2014 17.02	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/3/2014 7.57	2/3/2014 7.58	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/3/2014 8 00	2/3/2014 9 36	1 37	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/3/2014 10 28	2/3/2014 10 29	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/3/2014 10 31	2/3/2014 10 32	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/3/2014 10 39	2/3/2014 10 39	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/3/2014 10 41	2/3/2014 10 46	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/3/2014 10 48	2/3/2014 10 49	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/3/2014 10 52	2/3/2014 11 03	0 12	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/3/2014 11 30	2/3/2014 11 35	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/3/2014 15 45	2/3/2014 15 48	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/4/2014 9 19	2/4/2014 9 42	0 24	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/4/2014 9 58	2/4/2014 10 00	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/4/2014 10 51	2/4/2014 10 51	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/4/2014 10 54	2/4/2014 11 11	0 18	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/4/2014 11.21	2/4/2014 11.29	0 09	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/4/2014 11:39	2/4/2014 11 43	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/4/2014 11 49	2/4/2014 12 01	0 13	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/4/2014 12 14	2/4/2014 12 30	0 17	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/4/2014 12 34	2/4/2014 13 01	0 28	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/4/2014 13 13	2/4/2014 13 45	0 33	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/4/2014 14 03	2/4/2014 14 18	0 16	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/4/2014 14 20	2/4/2014 14 24	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/4/2014 14 29	2/4/2014 14 34	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/4/2014 14 39	2/4/2014 14 41	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/4/2014 15 53	2/4/2014 15 58	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/4/2014 16 00	2/4/2014 16 02	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 8 23	2/5/2014 8 23	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 8 30	2/5/2014 8 31	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 8 33	2/5/2014 8 34	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 8 37	2/5/2014 8 40	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating

Maui Electric

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Start Date/Time	Stop Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
2/5/2014 8:42	2/5/2014 8:43	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 8:45	2/5/2014 8:45	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 8:47	2/5/2014 8:47	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 8:50	2/5/2014 8:52	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 8:54	2/5/2014 8:57	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 9:00	2/5/2014 9:00	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 9:05	2/5/2014 9:06	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 9:22	2/5/2014 9:25	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 9:33	2/5/2014 9:33	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 9:36	2/5/2014 9:36	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 9:44	2/5/2014 9:46	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 9:53	2/5/2014 9:59	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 10:01	2/5/2014 10:05	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 10:07	2/5/2014 10:11	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 10:14	2/5/2014 10:58	0:45	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 11:00	2/5/2014 11:12	0:13	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 11:14	2/5/2014 11:20	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 11:23	2/5/2014 11:24	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 11:26	2/5/2014 11:34	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 11:36	2/5/2014 11:42	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 11:44	2/5/2014 11:47	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 11:50	2/5/2014 12:07	0:18	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 12:09	2/5/2014 12:35	0:27	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 12:37	2/5/2014 12:48	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 12:50	2/5/2014 13:10	0:21	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 13:12	2/5/2014 13:14	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 13:16	2/5/2014 13:23	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 13:26	2/5/2014 13:27	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 13:30	2/5/2014 13:32	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 13:46	2/5/2014 13:47	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 13:51	2/5/2014 13:51	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 13:54	2/5/2014 13:55	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 13:58	2/5/2014 13:59	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 14:01	2/5/2014 14:01	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 14:04	2/5/2014 14:04	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 14:30	2/5/2014 14:30	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 14:45	2/5/2014 14:45	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 14:56	2/5/2014 14:56	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/5/2014 15:23	2/5/2014 15:24	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/6/2014 8:39	2/6/2014 9:15	0:37	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/6/2014 10:24	2/6/2014 10:26	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/6/2014 11:29	2/6/2014 11:30	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/6/2014 11:33	2/6/2014 11:34	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 8:11	2/7/2014 8:11	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 8:18	2/7/2014 8:18	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 8:25	2/7/2014 8:28	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 8:33	2/7/2014 8:34	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 8:40	2/7/2014 8:41	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 8:45	2/7/2014 9:17	0:33	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 9:19	2/7/2014 9:19	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 9:22	2/7/2014 9:22	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 9:26	2/7/2014 9:28	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 9:33	2/7/2014 9:34	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 10:08	2/7/2014 10:39	0:32	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 10:59	2/7/2014 11:00	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 11:05	2/7/2014 11:06	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 11:34	2/7/2014 11:34	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 11:38	2/7/2014 12:07	0:30	LSR	*Data is not available*	*Data is not available*	*Good Engineering and Operating*
2/7/2014 12:12	2/7/2014 12:43	0:32	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 12:48	2/7/2014 12:50	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 12:52	2/7/2014 12:52	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 12:56	2/7/2014 13:06	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 13:08	2/7/2014 13:18	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 13:27	2/7/2014 13:27	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 13:33	2/7/2014 13:33	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 14:37	2/7/2014 14:40	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 14:47	2/7/2014 15:02	0:16	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 16:54	2/7/2014 16:58	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 17:00	2/7/2014 17:00	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 17:02	2/7/2014 17:09	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/7/2014 17:48	2/7/2014 17:48	0:01	LSR	Data is not available	Data is not available	Testing
2/7/2014 17:51	2/7/2014 17:54	0:04	LSR	Data is not available	Data is not available	Testing
2/8/2014 8:24	2/8/2014 8:24	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/8/2014 8:26	2/8/2014 10:06	1:41	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/8/2014 12:52	2/8/2014 12:53	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 7:42	2/9/2014 7:42	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 7:53	2/9/2014 9:05	1:13	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 9:08	2/9/2014 9:52	0:45	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 9:55	2/9/2014 9:56	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 10:08	2/9/2014 10:09	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 10:12	2/9/2014 10:22	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 10:30	2/9/2014 10:30	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 10:38	2/9/2014 10:41	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 10:56	2/9/2014 11:12	0:17	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 11:14	2/9/2014 11:18	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 11:20	2/9/2014 13:40	2:21	LSR	Data is not available	Data is not available	Good Engineering and Operating

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Start Date/Time	Stop Date/Time	Duration (h mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
2/9/2014 13:44	2/9/2014 13:44	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 13:54	2/9/2014 14:34	0:41	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 14:36	2/9/2014 14:36	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 14:38	2/9/2014 14:49	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 14:51	2/9/2014 15:19	0:29	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 15:21	2/9/2014 15:21	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 15:23	2/9/2014 15:23	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 15:25	2/9/2014 15:28	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 15:33	2/9/2014 15:33	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 15:35	2/9/2014 16:41	1:07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 16:43	2/9/2014 16:43	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 16:45	2/9/2014 16:47	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 16:50	2/9/2014 16:53	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/9/2014 16:56	2/9/2014 17:20	0:25	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/10/2014 8:07	2/10/2014 8:07	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/10/2014 8:09	2/10/2014 8:17	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/10/2014 8:20	2/10/2014 17:16	8:57	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/10/2014 17:51	2/10/2014 17:51	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 8:08	2/11/2014 9:49	1:42	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 9:51	2/11/2014 10:03	0:13	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 10:05	2/11/2014 10:14	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 10:17	2/11/2014 10:26	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 10:28	2/11/2014 10:48	0:21	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 10:52	2/11/2014 10:56	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 10:57	2/11/2014 10:58	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 11:00	2/11/2014 11:22	0:23	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 11:24	2/11/2014 11:26	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 11:29	2/11/2014 11:31	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 11:33	2/11/2014 11:34	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 11:43	2/11/2014 12:01	0:19	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 12:05	2/11/2014 12:08	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 12:13	2/11/2014 12:13	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 12:29	2/11/2014 12:29	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 13:18	2/11/2014 13:18	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 13:23	2/11/2014 13:27	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 13:57	2/11/2014 13:58	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 14:09	2/11/2014 14:11	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 14:38	2/11/2014 14:38	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 14:42	2/11/2014 14:42	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 14:53	2/11/2014 14:54	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 14:59	2/11/2014 15:00	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 15:02	2/11/2014 15:02	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 15:36	2/11/2014 15:37	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 15:40	2/11/2014 15:42	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 15:48	2/11/2014 15:48	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 15:54	2/11/2014 16:01	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 16:08	2/11/2014 16:11	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 16:25	2/11/2014 16:25	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 16:27	2/11/2014 16:29	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 16:33	2/11/2014 16:43	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 16:50	2/11/2014 16:52	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/11/2014 16:54	2/11/2014 17:00	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 7:59	2/12/2014 9:44	1:46	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 9:47	2/12/2014 9:49	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 9:52	2/12/2014 9:55	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 9:58	2/12/2014 10:32	0:35	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 10:34	2/12/2014 10:35	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 10:37	2/12/2014 10:37	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 10:40	2/12/2014 10:54	0:15	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 10:57	2/12/2014 10:58	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 11:01	2/12/2014 11:03	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 11:06	2/12/2014 11:11	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 11:13	2/12/2014 13:48	2:36	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 13:51	2/12/2014 13:51	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 13:53	2/12/2014 13:56	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 13:59	2/12/2014 14:00	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 14:02	2/12/2014 14:09	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 14:11	2/12/2014 14:14	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 14:17	2/12/2014 14:17	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 14:19	2/12/2014 14:29	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 14:31	2/12/2014 14:37	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 14:39	2/12/2014 14:40	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 14:43	2/12/2014 14:46	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 14:54	2/12/2014 15:03	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 15:05	2/12/2014 15:11	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 15:14	2/12/2014 15:16	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 15:23	2/12/2014 15:28	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 15:33	2/12/2014 15:38	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 15:40	2/12/2014 15:45	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 15:47	2/12/2014 15:47	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 16:01	2/12/2014 16:01	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 16:04	2/12/2014 16:34	0:31	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 16:36	2/12/2014 17:18	0:41	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 17:20	2/12/2014 17:20	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 17:29	2/12/2014 17:38	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/12/2014 17:40	2/12/2014 17:40	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating

Maui Electric

Lanai Curtailment Report February 2014

Start Date/Time	Stop Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
2/12/2014 17:42	2/12/2014 17:42	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 8:07	2/13/2014 8:11	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 8:13	2/13/2014 8:14	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 8:17	2/13/2014 8:27	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 8:30	2/13/2014 8:33	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 8:35	2/13/2014 8:35	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 8:38	2/13/2014 8:52	0:15	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 8:54	2/13/2014 9:07	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 9:09	2/13/2014 9:51	0:43	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 9:54	2/13/2014 9:54	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 9:56	2/13/2014 10:00	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 10:02	2/13/2014 10:02	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 10:04	2/13/2014 10:35	0:32	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 10:37	2/13/2014 10:51	0:15	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 10:53	2/13/2014 10:58	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 11:00	2/13/2014 11:01	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 11:03	2/13/2014 11:08	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 11:12	2/13/2014 11:16	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 11:22	2/13/2014 11:34	0:13	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 11:41	2/13/2014 11:45	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 11:52	2/13/2014 11:53	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 12:01	2/13/2014 12:01	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 12:06	2/13/2014 12:06	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 12:32	2/13/2014 12:32	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 12:34	2/13/2014 12:37	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 12:41	2/13/2014 12:45	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 12:48	2/13/2014 12:49	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 12:51	2/13/2014 12:51	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 12:55	2/13/2014 13:00	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 13:02	2/13/2014 13:13	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 13:15	2/13/2014 13:16	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 13:27	2/13/2014 13:27	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 13:29	2/13/2014 13:54	0:26	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 13:56	2/13/2014 14:00	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 14:04	2/13/2014 14:18	0:15	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 14:20	2/13/2014 14:29	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 14:31	2/13/2014 14:31	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 14:33	2/13/2014 14:43	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 14:45	2/13/2014 15:27	0:43	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 15:30	2/13/2014 15:35	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 15:43	2/13/2014 15:59	0:17	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 16:01	2/13/2014 16:06	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 16:13	2/13/2014 16:14	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 16:56	2/13/2014 17:04	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/13/2014 17:11	2/13/2014 17:12	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 9:15	2/14/2014 9:24	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 9:27	2/14/2014 9:29	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 9:34	2/14/2014 9:37	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 9:41	2/14/2014 9:41	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 9:46	2/14/2014 9:49	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 9:58	2/14/2014 10:00	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 10:05	2/14/2014 10:06	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 10:08	2/14/2014 10:08	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 10:10	2/14/2014 10:10	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 10:12	2/14/2014 10:19	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 10:21	2/14/2014 10:23	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 10:41	2/14/2014 10:47	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 10:49	2/14/2014 11:25	0:37	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 11:28	2/14/2014 11:41	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 12:20	2/14/2014 12:26	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 12:51	2/14/2014 13:05	0:15	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 13:08	2/14/2014 13:08	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 13:11	2/14/2014 13:11	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 13:19	2/14/2014 13:27	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 13:29	2/14/2014 13:30	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 13:34	2/14/2014 13:39	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 14:06	2/14/2014 14:26	0:21	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 14:34	2/14/2014 14:38	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 14:40	2/14/2014 14:41	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 15:02	2/14/2014 15:03	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/14/2014 15:10	2/14/2014 15:12	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 8:45	2/15/2014 8:52	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 8:54	2/15/2014 8:55	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 8:58	2/15/2014 8:58	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 9:01	2/15/2014 9:01	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 9:03	2/15/2014 9:44	0:42	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 9:56	2/15/2014 10:16	0:21	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 10:20	2/15/2014 10:45	0:26	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 10:47	2/15/2014 12:09	1:23	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 12:14	2/15/2014 12:21	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 12:24	2/15/2014 12:40	0:17	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 12:45	2/15/2014 13:31	0:47	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 13:33	2/15/2014 13:44	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 13:46	2/15/2014 13:46	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 13:49	2/15/2014 13:57	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 14:06	2/15/2014 14:30	0:25	LSR	Data is not available	Data is not available	Good Engineering and Operating

Maui Electric

Lana'i Curtailment Report February 2014

Start Date/Time	Stop Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
2/15/2014 15:16	2/15/2014 15:28	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 15:43	2/15/2014 15:48	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 16:02	2/15/2014 16:02	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 16:08	2/15/2014 16:09	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 16:11	2/15/2014 16:19	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 16:21	2/15/2014 16:21	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/15/2014 16:33	2/15/2014 16:34	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/16/2014 10:39	2/16/2014 11:29	0:51	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/16/2014 11:44	2/16/2014 11:46	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/17/2014 13:15	2/17/2014 13:22	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/17/2014 13:33	2/17/2014 13:34	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/17/2014 14:00	2/17/2014 14:02	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/18/2014 8:01	2/18/2014 8:01	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/18/2014 8:03	2/18/2014 8:04	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/18/2014 8:22	2/18/2014 8:26	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/18/2014 8:30	2/18/2014 8:30	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/18/2014 8:33	2/18/2014 8:33	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/18/2014 8:39	2/18/2014 8:40	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/18/2014 8:46	2/18/2014 8:46	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/18/2014 8:50	2/18/2014 9:13	0:24	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/18/2014 9:15	2/18/2014 9:15	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/18/2014 11:20	2/18/2014 17:52	6:33	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/18/2014 17:59	2/18/2014 18:01	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/19/2014 7:53	2/19/2014 10:35	2:43	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/19/2014 10:44	2/19/2014 11:59	1:16	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/19/2014 12:04	2/19/2014 12:07	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/19/2014 12:48	2/19/2014 12:53	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/19/2014 12:55	2/19/2014 12:59	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/19/2014 13:37	2/19/2014 13:38	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/19/2014 13:40	2/19/2014 13:42	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/19/2014 13:45	2/19/2014 13:47	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/19/2014 13:49	2/19/2014 13:50	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/19/2014 14:18	2/19/2014 14:21	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/19/2014 14:36	2/19/2014 14:37	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/19/2014 14:50	2/19/2014 14:52	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/19/2014 17:09	2/19/2014 17:11	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/19/2014 17:16	2/19/2014 17:16	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/19/2014 17:21	2/19/2014 17:23	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/19/2014 17:33	2/19/2014 17:51	0:19	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 7:49	2/20/2014 8:37	0:49	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 8:39	2/20/2014 12:50	4:12	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 12:52	2/20/2014 13:51	1:00	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 14:53	2/20/2014 14:53	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 14:57	2/20/2014 14:57	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 15:01	2/20/2014 15:01	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 15:08	2/20/2014 15:12	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 15:14	2/20/2014 15:20	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 15:23	2/20/2014 15:24	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 16:21	2/20/2014 16:32	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 16:34	2/20/2014 16:35	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 16:44	2/20/2014 16:49	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 16:51	2/20/2014 16:52	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 16:55	2/20/2014 16:58	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 17:01	2/20/2014 17:09	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 17:11	2/20/2014 17:11	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 17:14	2/20/2014 17:14	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 17:16	2/20/2014 17:16	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 17:20	2/20/2014 17:22	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/20/2014 17:26	2/20/2014 17:26	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/21/2014 7:52	2/21/2014 7:54	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/21/2014 8:03	2/21/2014 8:03	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/21/2014 8:30	2/21/2014 8:45	0:16	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/21/2014 8:48	2/21/2014 8:52	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/21/2014 8:54	2/21/2014 8:58	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/21/2014 9:19	2/21/2014 9:32	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/21/2014 9:34	2/21/2014 9:45	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/21/2014 9:53	2/21/2014 10:17	0:25	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/21/2014 10:23	2/21/2014 10:38	0:16	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/21/2014 10:40	2/21/2014 12:34	1:55	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/21/2014 12:37	2/21/2014 12:37	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/21/2014 12:40	2/21/2014 14:13	1:34	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/22/2014 7:48	2/22/2014 8:05	0:18	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/22/2014 8:07	2/22/2014 9:10	1:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/22/2014 9:12	2/22/2014 9:12	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/22/2014 9:19	2/22/2014 9:25	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/22/2014 9:43	2/22/2014 9:49	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/22/2014 10:00	2/22/2014 10:03	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/22/2014 10:11	2/22/2014 10:20	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/22/2014 11:07	2/22/2014 11:09	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/22/2014 13:48	2/22/2014 13:48	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/22/2014 13:51	2/22/2014 13:54	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/22/2014 13:56	2/22/2014 13:57	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/22/2014 15:22	2/22/2014 15:22	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/22/2014 15:28	2/22/2014 15:34	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/22/2014 15:36	2/22/2014 15:48	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/22/2014 15:57	2/22/2014 15:57	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating

Maui Electric

Lana'i Curtailment Report February 2014

Start Date/Time	Stop Date/Time	Duration (h mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
2/22/2014 16:30	2/22/2014 16 30	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 7 47	2/23/2014 8 00	0 14	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 8 03	2/23/2014 8 21	0 19	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 8 31	2/23/2014 8 32	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 8 44	2/23/2014 8 51	0 08	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 8 57	2/23/2014 8 57	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 9 34	2/23/2014 9 34	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 9 36	2/23/2014 10 09	0 34	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 10 34	2/23/2014 10 40	0 07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 10 42	2/23/2014 10 50	0 09	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 11 22	2/23/2014 11 25	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 11 39	2/23/2014 11 47	0 09	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 11 50	2/23/2014 11 56	0 07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 11 58	2/23/2014 11 59	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 12 18	2/23/2014 12 19	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 12 28	2/23/2014 12 30	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 12 33	2/23/2014 12 33	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 13 42	2/23/2014 13 48	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 13 51	2/23/2014 13 55	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 14 10	2/23/2014 14 14	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 14 17	2/23/2014 14 29	0 13	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 14 32	2/23/2014 14 51	0 20	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 14 53	2/23/2014 14 57	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/23/2014 15 00	2/23/2014 15 19	0 20	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 7 46	2/24/2014 8 54	1 09	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 9 00	2/24/2014 10 42	1 43	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 10 54	2/24/2014 10 54	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 11 04	2/24/2014 11 46	0 43	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 12 09	2/24/2014 12 09	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 12 14	2/24/2014 12 16	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 12 18	2/24/2014 12 22	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 12 30	2/24/2014 12 32	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 12 53	2/24/2014 12 54	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 12 56	2/24/2014 12 58	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 13 04	2/24/2014 13 06	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 13 13	2/24/2014 13 13	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 13 19	2/24/2014 13 19	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 13 26	2/24/2014 13 27	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 13 32	2/24/2014 14 00	0 29	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 14:11	2/24/2014 14:11	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 14:18	2/24/2014 14.18	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 14 22	2/24/2014 14:33	0 12	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 14 38	2/24/2014 14:38	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 14 41	2/24/2014 14 45	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 14 48	2/24/2014 14 48	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 14 53	2/24/2014 14 53	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 14:59	2/24/2014 15 05	0 07	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 15 09	2/24/2014 15 14	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 15 16	2/24/2014 15:17	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 15 21	2/24/2014 15 21	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 15.23	2/24/2014 15 24	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 15 31	2/24/2014 15 31	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 15 34	2/24/2014 15:36	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 15 40	2/24/2014 15 40	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 15 47	2/24/2014 15 50	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 16 00	2/24/2014 16 04	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 16 10	2/24/2014 16 12	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 16 15	2/24/2014 16 15	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/24/2014 17.03	2/24/2014 17 48	0 46	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 7 52	2/25/2014 8 07	0:16	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 8 10	2/25/2014 8 10	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 8 14	2/25/2014 8 14	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 8 16	*2/25/2014 8 17*	*0 02*	*LSR*	*Data is not available*	*Data is not available*	*Good Engineering and Operating*
2/25/2014 8:19	2/25/2014 8 19	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 8 32	2/25/2014 8 32	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 8 35	2/25/2014 8 35	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 8 41	2/25/2014 8 44	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 9 18	2/25/2014 9 18	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 9 20	2/25/2014 9 35	0 16	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 9 38	2/25/2014 9 40	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 9 42	2/25/2014 9 43	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 9 45	2/25/2014 9 59	0 15	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 10 07	2/25/2014 10 08	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 10 16	2/25/2014 11:16	1 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 11:18	2/25/2014 11:21	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 11.27	2/25/2014 11.29	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 11 46	2/25/2014 11:49	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 12 27	2/25/2014 12 32	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 12 39	2/25/2014 13 07	0 29	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 13 49	2/25/2014 14 50	1.02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 14.54	2/25/2014 15 10	0 17	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 16 07	2/25/2014 16 08	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/25/2014 17 00	2/25/2014 17 03	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 7 54	2/26/2014 8 40	0 47	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 8 42	2/26/2014 8 42	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 8 45	2/26/2014 8 45	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating

Maui Electric

Lana'i Curtailment Report February 2014

Start Date/Time	Stop Date/Time	Duration (h mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
2/26/2014 8 48	2/26/2014 9 58	1:11	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 10 02	2/26/2014 10 02	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 10 08	2/26/2014 10 10	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 10 12	2/26/2014 10 13	0.02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 10 26	2/26/2014 10 26	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 10 28	2/26/2014 10 29	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 10 31	2/26/2014 10 45	0 15	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 10 47	2/26/2014 10 47	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 10 51	2/26/2014 10 53	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 10 57	2/26/2014 10 58	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 11 00	2/26/2014 11 01	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 11 07	2/26/2014 11 07	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 11 08	2/26/2014 11 26	0 18	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 11 31	2/26/2014 11:35	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 11 41	2/26/2014 11 43	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 11 50	2/26/2014 11:50	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 11:54	2/26/2014 11:56	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 11:59	2/26/2014 11:59	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 12 02	2/26/2014 12 02	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 12 04	2/26/2014 12.06	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 12 10	2/26/2014 12.10	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 12 15	2/26/2014 12 19	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 12 22	2/26/2014 12 23	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 12 25	2/26/2014 12 27	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 12 29	2/26/2014 12:31	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 12 35	2/26/2014 12 35	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 12 38	2/26/2014 12 38	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 12 41	2/26/2014 13 01	0 21	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 13 03	2/26/2014 13 13	0 11	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 13 18	2/26/2014 13 22	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 13 25	2/26/2014 13 39	0 15	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 13 41	2/26/2014 14 07	0 27	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 14 09	2/26/2014 14.10	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 14 24	2/26/2014 14 24	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 16 07	2/26/2014 16 13	0 07	LSR	Data is not available	Data is not available	Testing
2/26/2014 17 03	2/26/2014 17 05	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 17.07	2/26/2014 17 07	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 17:11	2/26/2014 17 12	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 17 15	2/26/2014 17.16	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 17.18	2/26/2014 17 30	0 13	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 17 32	2/26/2014 17 35	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 17 37	2/26/2014 17 51	0 15	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 17.55	2/26/2014 17 55	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/26/2014 17.57	2/26/2014 17.57	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/27/2014 7 58	2/27/2014 7 58	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating
2/27/2014 8 00	2/27/2014 9 08	1 07	LSR	Data is not available	Data is not available	Good Engineering and Operating

Notes

On June 27, 2012, Maui Electric notified LSR that although LSR has not operated in compliance with the revised ramp rate of 360 kW/minute, Maui Electric would conditionally allow LSR to operate at the allowed capacity of 1 2 MW while the Maui Electric-Lanai Diesel Operator was in the control room

LSR possible output data is not available Therefore, Maui Electric assumes LSR is curtailed if the LSR curtailment set point is less than 1,200 kW and LSR's output is within 50 kW of the curtailment set point

Hawai'i Electric Light Company Curtailment Report February 2014

Start Date/Time	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released	Reason for Curtailment
02/12/14 09:18	18.5 MW	02/12/14 09:50	10.1 MW	Tawhiri curtailed - switching at 9600 line
02/12/14 14:07	7.9 MW	02/12/14 14:28	7.9 MW	Tawhiri curtailed - switching at 9600 line
02/22/14 19:31	0.0 MW	02/23/14 02:58	0.0 MW	Low wind curtailment at Tawhiri's request.
02/23/14 17:59	1.5 MW	02/24/14 06:34	0.0 MW	Low wind curtailment at Tawhiri's request.
02/24/14 18:33	3.1 MW	02/25/14 06:47	0.0 MW	Low wind curtailment at Tawhiri's request.
02/25/14 21:05	0.0 MW	02/26/14 06:28	0.0 MW	Low wind curtailment at Tawhiri's request.