



Dean K. Matsuura
Manager
Regulatory Affairs

September 26, 2013

PUBLIC UTILITIES
COMMISSION

2013 SEP 26 P 3:54

FILED

The Honorable Chair and Members
of the Hawaii Public Utilities Commission
Kekuanaoa Building, 1st Floor
465 South King Street
Honolulu, Hawaii 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 August 2013 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.

Very truly yours,

Enclosure

cc: Service List

¹ Hawaiian Electric Company, Inc., Hawaii 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 August 31, 2013):

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 Hawaii 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 Hawaii 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 August 31, 2013):

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 August. Maui Electric and Hawaii 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 did not have any under frequency load shed events for the month of August.

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's demand response activations for system events are provided in Attachment 5. Maui Electric and Hawaii Electric Light currently do not have demand response programs.

- (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 August 31, 2013):

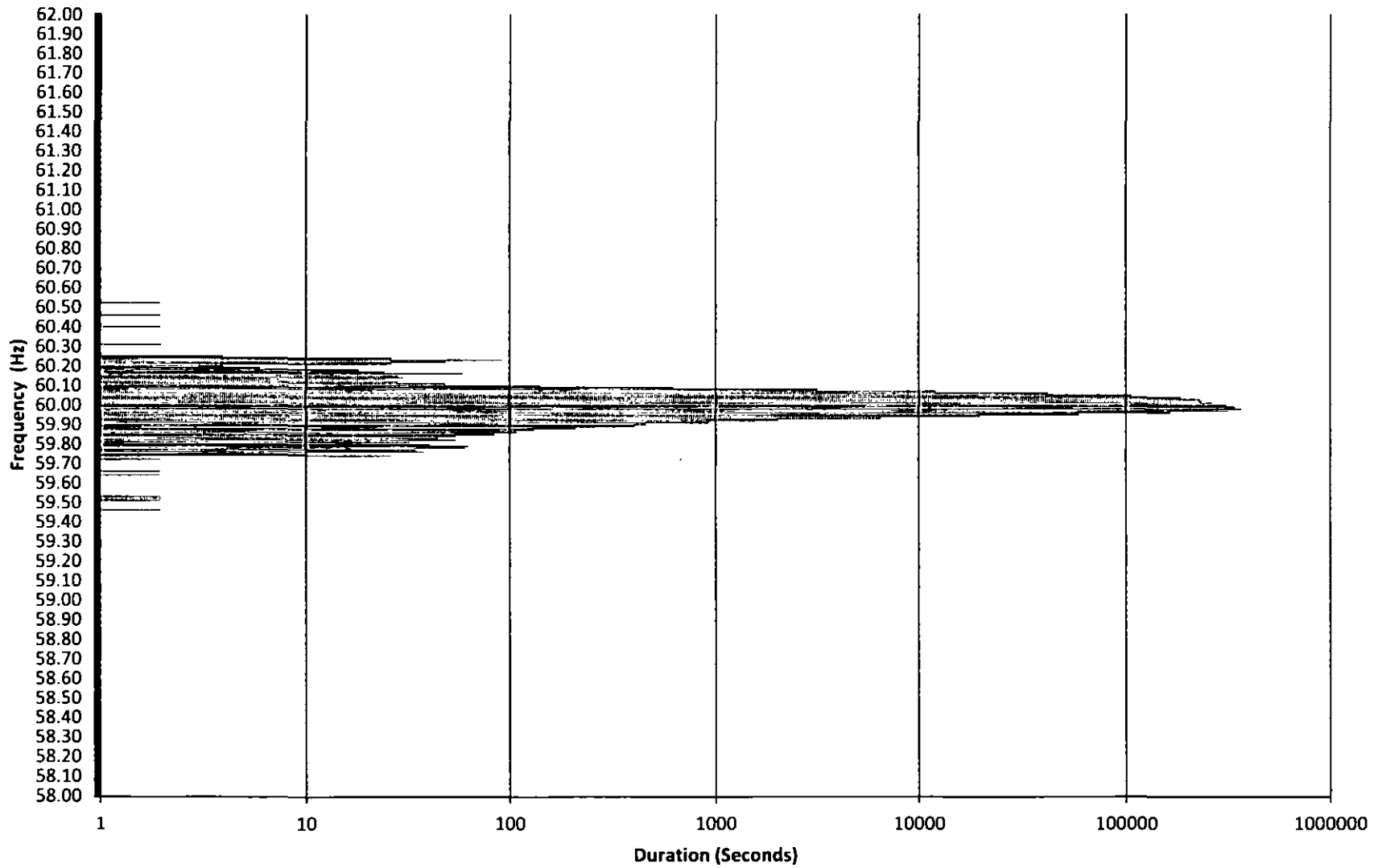
3a) Tabulation of each curtailment event for each resource including the starting date and time, duration, megawatt hours curtailed, peak MW curtailed, and reason for curtailment:

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

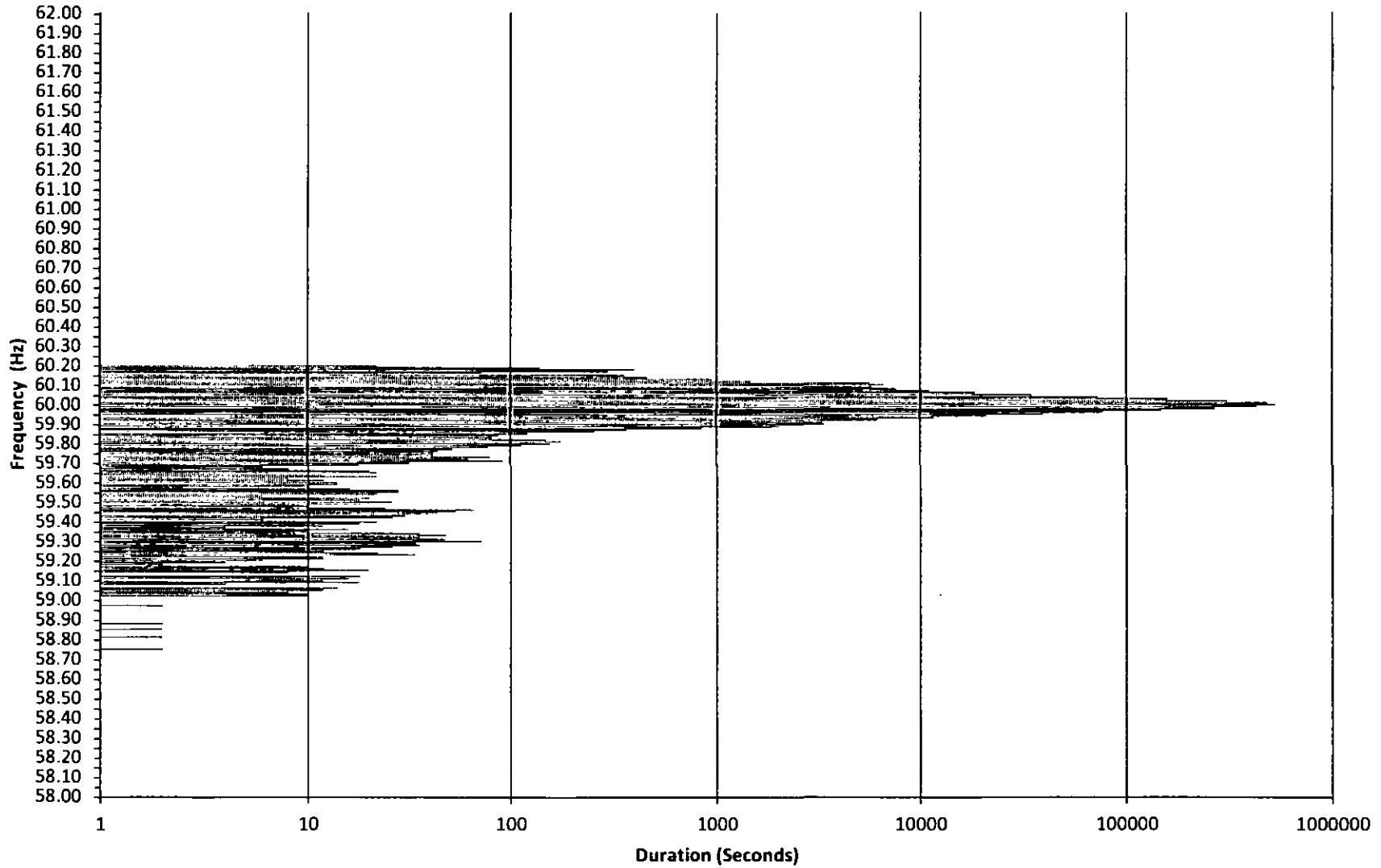
3b) Total MWh of non-dispatchable renewable resources curtailed for the month:

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. Hawaii Electric Light is not providing an estimate of curtailed MWh, as this information is not provided to Hawaii 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.

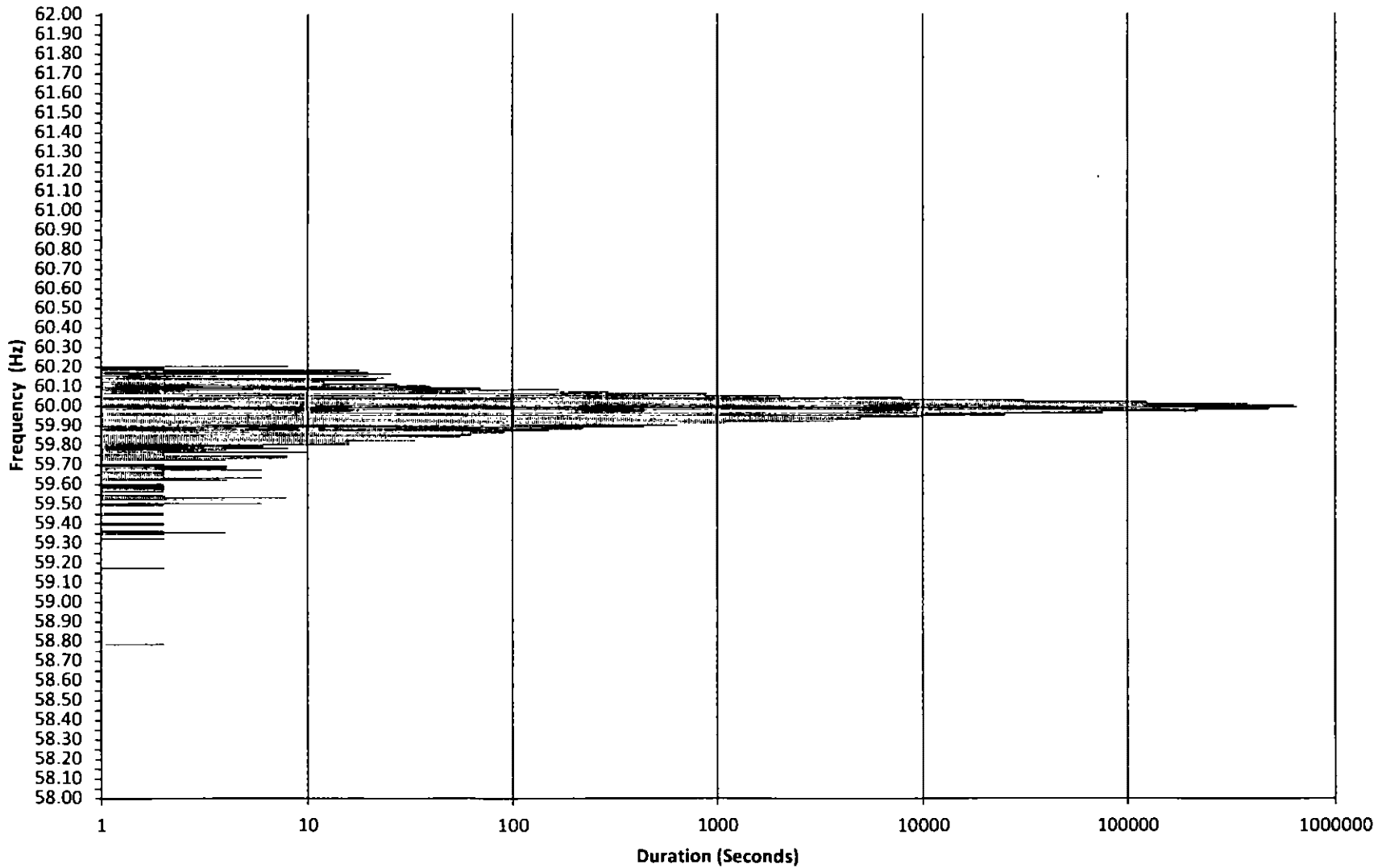
Frequency Distribution Plot - Hawaiian Electric August 2013



Maui Electric Frequency Distribution Plot - Maui August 2013



Frequency Distribution Plot - Hawaii Electric Light August 2013



Hawaiian Electric Frequency Excursion Statistics August 2013		
	<59.95 Hz	>60.05 Hz
Number of Excursions	2957	4808
Maximum Duration (sec)	694	1600
Maximum Deviation (Hz)	59.457	60.519
Total Duration of Excursions (sec)	52950	99864

Maui Electric Frequency Excursion Statistics August 2013		
	<59.95 Hz	>60.05 Hz
Number of Excursions	8275	5856
Maximum Duration (sec)	1338	4274
Maximum Deviation (Hz)	58.748	60.199
Total Duration of Excursions (sec)	68338	70438

Hawaii Electric Light Frequency Excursion Statistics August 2013		
	<59.95 Hz	>60.05 Hz
Number of Excursions	3807	321
Maximum Duration (sec)	270	260
Maximum Deviation (Hz)	58.78223	60.19824
Total Duration of Excursions (sec)	32142	2426

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Hawaiian Electric Curtailment Report August 2013

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
08/01/13 06:25	0.0	0.50	08/01/13 07:24	0	*	Makai	Pole replacement on Koolau-Kahuku 46kV line
08/01/13 15:56	0.0	12.10	08/01/13 17:10	0	*	Makai	Pole replacement on Koolau-Kahuku 46kV line
08/02/13 17:36	0.0	0.00	08/02/13 17:45	0	*	Makai	Request from Kawaiaoa Makai to close breakers following Wahiawa-Waiakua 2 46kV line trip
08/02/13 20:57	0.0	0.00	08/04/13 20:29	0	*	Mauka	Pole repairs on Wahiawa-Waiakua 2 circuit following line trip
08/03/13 07:07	0.0	0.00	08/03/13 09:07	0	*	Makai	Equipment repairs at Waiakua Substation
08/04/13 01:05	0.0	0.70	08/04/13 06:52	0	*	Makai	Pole repairs on Wahiawa-Waiakua 1 circuit following line trip
08/06/13 06:49	0.0	0.00	08/06/13 07:28	0	*	KL52	Switch replacement at Makakilo Substation
08/06/13 07:28	2.5	0.00	08/06/13 16:49	0	*	KL52	Switch replacement at Makakilo Substation
08/06/13 16:49	0.0	1.30	08/06/13 17:53	0	*	KL52	Switch replacement at Makakilo Substation
08/07/13 07:19	0.0	5.90	08/07/13 08:37	0	*	Mauka	Equipment repairs at Waiakua Substation
08/07/13 07:20	0.0	0.20	08/07/13 08:37	0	*	Makai	Equipment repairs at Waiakua Substation
08/11/13 17:21	0.0	4.50	08/11/13 17:46	0	*	Makai	Equipment repairs on Koolau-Kahuku 46kV line
08/11/13 22:18	0.0	1.80	08/11/13 23:07	0	*	Makai	Equipment repairs on Koolau-Kahuku 46kV line
08/12/13 05:54	0.0	0.00	08/12/13 06:56	0	*	Makai	Pole upgrades on Koolau-Kahuku 46kV line
08/12/13 17:29	0.0	7.00	08/12/13 19:31	0	*	Makai	Pole upgrades on Koolau-Kahuku 46kV line
08/13/13 05:42	0.0	0.00	08/13/13 06:23	0	*	Makai	Pole upgrades on Koolau-Kahuku 46kV line
08/13/13 17:44	0.0	4.90	08/13/13 18:27	0	*	Makai	Pole upgrades on Koolau-Kahuku 46kV line
08/20/13 07:41	0.0	6.00	08/20/13 10:02	0	*	Mauka	Pole upgrades on Koolau-Kahuku 46kV line
08/20/13 07:42	0.0	1.00	08/21/13 11:11	0	*	Makai	Pole upgrades on Koolau-Kahuku 46kV line
08/20/13 23:32	0.0	0.80	08/21/13 04:52	0	*	Mauka	Pole upgrades on Koolau-Kahuku 46kV line
08/21/13 09:55	0.0	0.00	08/21/13 11:10	0	*	Mauka	Kawaiaoa Mauka request for CB 5911 & 5912 to be opened for maintenance
08/23/13 07:50	0.0	1.80	08/23/13 08:25	0	*	Makai	Install new transformer at Waiakua Substation
08/23/13 07:51	0.0	4.50	08/23/13 08:26	0	*	Mauka	Install new transformer at Waiakua Substation
08/23/13 13:33	0.0	3.30	08/23/13 13:53	0	*	Makai	Install new transformer at Waiakua Substation
08/23/13 13:34	0.0	9.50	08/23/13 13:53	0	*	Mauka	Install new transformer at Waiakua Substation
08/24/13 06:04	0.0	0.00	08/24/13 06:44	0	*	Makai	Clearance of Wahiawa-Waiakua 1 46kV line for equipment installation at Waiakua Substation
08/24/13 06:04	0.0	0.00	08/24/13 12:45	0	*	Mauka	Clearance of Wahiawa-Waiakua 1 46kV line for equipment installation at Waiakua Substation
08/24/13 11:58	0.0	8.20	08/24/13 12:45	0	*	Makai	Clearance of Wahiawa-Waiakua 1 46kV line for equipment installation at Waiakua Substation

KL52 = Kapehoa Solar 2 PV Farm

KWF = Kahuku Wind Farm

Makai = Kawaiaoa Makai Wind Farm

Mauka = Kawaiaoa Mauka Wind Farm

(1) The estimated MWh of energy curtailed during the event is supplied by Kahuku Wind Farm and/or Kawaiaoa Wind Farm, and HECO does not make any representations as to its accuracy

* Data has not been provided by IPP.

Maul Electric Company - Maul Curtailment Report August 2013

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWh	Peak MW Curtailed	Reasons for Curtailment
8/1/2013 0:01	6:21	KWP II	90.509	20.708	AGC MAVG - calculated
8/1/2013 3:13	0:02	AWE	0.020	18.300	AGC MAVG - calculated
8/1/2013 3:38	0:01	AWE	0.002	19.800	AGC MAVG - calculated
8/1/2013 6:23	0:01	KWP II	0.001	20.708	AGC MAVG - calculated
8/1/2013 6:25	0:01	KWP II	0.003	20.708	AGC MAVG - calculated
8/1/2013 6:29	6:29	KWP II	60.980	20.708	AGC MAVG - calculated
8/1/2013 7:52	0:03	AWE	0.013	20.200	AGC MAVG - calculated
8/1/2013 7:56	0:03	AWE	0.010	19.800	AGC MAVG - calculated
8/1/2013 8:01	0:01	AWE	0.007	19.800	AGC MAVG - calculated
8/1/2013 8:04	0:02	AWE	0.005	19.500	AGC MAVG - calculated
8/1/2013 8:33	0:01	AWE	0.003	19.500	AGC MAVG - calculated
8/1/2013 12:59	0:20	KWP II	0.532	20.708	AGC MAVG - calculated
8/1/2013 13:21	0:01	KWP II	0.021	20.708	AGC MAVG - calculated
8/1/2013 13:23	0:01	KWP II	0.003	20.708	AGC MAVG - calculated
8/1/2013 13:56	0:01	KWP II	0.001	20.708	AGC MAVG - calculated
8/1/2013 14:56	0:02	KWP II	0.015	20.708	AGC MAVG - calculated
8/1/2013 15:00	0:04	KWP II	0.024	20.708	AGC MAVG - calculated
8/1/2013 15:09	0:01	KWP II	0.012	20.708	AGC MAVG - calculated
8/1/2013 15:08	0:12	KWP II	0.270	20.708	AGC MAVG - calculated
8/1/2013 15:21	0:01	KWP II	0.009	20.708	AGC MAVG - calculated and Testing
8/1/2013 15:23	0:58	KWP II	2.668	20.708	AGC MAVG - calculated and Testing
8/1/2013 16:20	0:01	KWP II	0.018	20.708	AGC MAVG - calculated
8/1/2013 16:23	0:01	KWP II	0.021	20.708	AGC MAVG - calculated
8/1/2013 17:40	0:02	KWP II	0.014	20.708	AGC MAVG - calculated
8/1/2013 17:50	0:01	KWP II	0.001	20.708	AGC MAVG - calculated
8/1/2013 17:54	0:01	KWP II	0.003	20.708	AGC MAVG - calculated
8/1/2013 20:29	0:01	KWP II	0.001	20.708	AGC MAVG - calculated
8/1/2013 22:07	0:05	KWP II	0.098	20.708	AGC MAVG - calculated
8/1/2013 22:47	0:01	KWP II	0.010	20.708	AGC MAVG - calculated
8/1/2013 22:50	0:36	KWP II	3.021	20.708	AGC MAVG - calculated
8/1/2013 23:28	0:01	KWP II	0.001	20.708	AGC MAVG - calculated
8/1/2013 23:35	0:09	KWP II	0.621	20.708	AGC MAVG - calculated
8/1/2013 23:57	0:02	KWP II	0.013	20.708	AGC MAVG - calculated
8/2/2013 0:04	1:38	KWP II	10.634	20.708	AGC MAVG - calculated
8/2/2013 1:43	0:01	KWP II	0.008	20.708	AGC MAVG - calculated
8/2/2013 1:49	0:28	KWP II	1.073	20.708	AGC MAVG - calculated
8/2/2013 2:18	0:03	KWP II	0.024	20.708	AGC MAVG - calculated
8/2/2013 2:22	0:35	KWP II	1.765	20.708	AGC MAVG - calculated
8/2/2013 3:01	0:01	KWP II	0.008	20.708	AGC MAVG - calculated
8/2/2013 3:07	0:04	KWP II	0.103	20.708	AGC MAVG - calculated
8/2/2013 3:12	0:01	KWP II	0.007	20.708	AGC MAVG - calculated
8/2/2013 3:14	1:10	KWP II	5.502	20.708	AGC MAVG - calculated
8/2/2013 4:25	0:10	KWP II	0.319	20.708	AGC MAVG - calculated
8/2/2013 4:38	0:02	KWP II	0.050	16.028	AGC MAVG - calculated
8/2/2013 4:41	0:02	KWP II	0.028	15.983	AGC MAVG - calculated
8/2/2013 4:43	0:01	KWP II	0.022	15.234	AGC MAVG - calculated
8/2/2013 4:43	0:01	KWP II	0.004	12.426	AGC MAVG - calculated
8/2/2013 4:58	0:25	KWP II	1.689	16.514	AGC MAVG - calculated
8/2/2013 5:22	0:18	KWP II	0.628	16.581	AGC MAVG - calculated
8/2/2013 5:42	0:01	KWP II	0.002	14.676	AGC MAVG - calculated
8/2/2013 5:50	0:58	KWP II	3.283	20.288	AGC MAVG - calculated
8/2/2013 6:50	0:02	KWP II	0.044	19.755	AGC MAVG - calculated
8/2/2013 6:53	0:00	KWP II	0.318	19.847	AGC MAVG - calculated
8/2/2013 7:04	0:06	KWP II	0.112	18.121	AGC MAVG - calculated
8/2/2013 7:11	0:05	KWP II	0.155	19.776	AGC MAVG - calculated
8/2/2013 7:19	0:02	KWP II	0.032	18.269	AGC MAVG - calculated
8/2/2013 7:43	0:01	KWP II	0.001	15.186	AGC MAVG - calculated
8/2/2013 7:54	0:01	KWP II	0.018	17.986	AGC MAVG - calculated
8/2/2013 8:31	0:01	KWP II	0.001	17.673	AGC MAVG - calculated
8/2/2013 8:43	0:01	KWP II	0.017	17.702	AGC MAVG - calculated
8/2/2013 8:48	0:02	KWP II	0.034	17.785	AGC MAVG - calculated
8/2/2013 8:53	0:02	KWP II	0.024	17.411	AGC MAVG - calculated
8/2/2013 18:09	0:03	KWP II	0.027	16.577	AGC MAVG - calculated and Testing
8/2/2013 18:44	0:06	KWP II	0.114	18.453	AGC MAVG - calculated and Testing
8/2/2013 18:57	0:14	KWP II	0.594	20.380	AGC MAVG - calculated and Testing
8/2/2013 19:30	0:06	KWP II	0.094	20.521	AGC MAVG - calculated and Testing
8/2/2013 19:37	0:05	KWP II	0.034	20.333	AGC MAVG - calculated and Testing
8/2/2013 19:43	0:03	KWP II	0.032	20.221	AGC MAVG - calculated and Testing
8/2/2013 19:47	0:03	KWP II	0.030	19.910	AGC MAVG - calculated and Testing
8/2/2013 19:51	0:21	KWP II	1.725	20.439	AGC MAVG - calculated and Testing
8/2/2013 20:19	0:19	KWP II	0.814	20.060	AGC MAVG - calculated and Testing
8/2/2013 21:10	0:18	KWP II	1.240	20.352	AGC MAVG - entered - Maintaining Regulating Reserves and AGC MAVG - calculated
8/2/2013 22:23	0:01	KWP II	0.008	19.614	AGC MAVG - calculated
8/2/2013 22:26	0:04	KWP II	0.051	20.158	AGC MAVG - calculated
8/2/2013 22:31	0:02	KWP II	0.023	20.208	AGC MAVG - calculated
8/2/2013 22:37	0:12	KWP II	0.649	19.719	AGC MAVG - calculated
8/2/2013 22:57	0:21	KWP II	0.685	20.313	AGC MAVG - calculated
8/2/2013 23:18	0:01	KWP II	0.012	20.283	AGC MAVG - calculated
8/2/2013 23:23	0:01	KWP II	0.003	19.583	AGC MAVG - calculated
8/2/2013 23:28	0:02	KWP II	0.007	20.146	AGC MAVG - calculated
8/2/2013 23:50	1:16	KWP II	7.108	20.643	AGC MAVG - calculated
8/2/2013 1:07	0:23	KWP II	1.078	20.463	AGC MAVG - calculated
8/2/2013 1:31	0:01	KWP II	0.027	19.274	AGC MAVG - calculated
8/2/2013 1:33	0:02	KWP II	0.047	19.467	AGC MAVG - calculated
8/2/2013 1:45	0:05	KWP II	0.168	18.457	AGC MAVG - calculated
8/3/2013 1:52	1:05	KWP II	12.223	20.325	AGC MAVG - calculated, AGC MAVG - entered - Maintaining Regulating Reserves, and AGC MAVG - calculated
8/3/2013 2:59	0:06	KWP II	0.182	20.489	AGC MAVG - calculated
8/3/2013 3:06	0:03	KWP II	0.098	20.464	AGC MAVG - calculated
8/3/2013 3:10	0:01	KWP II	0.009	20.314	AGC MAVG - calculated
8/3/2013 3:55	0:01	KWP II	0.008	19.330	AGC MAVG - calculated
8/3/2013 4:06	0:03	KWP II	0.052	18.380	AGC MAVG - calculated
8/3/2013 4:10	0:02	KWP II	0.011	18.228	AGC MAVG - calculated
8/3/2013 4:15	0:57	KWP II	5.185	20.641	AGC MAVG - calculated, AGC MAVG - entered - Maintaining Regulating Reserves, and AGC MAVG - calculated
8/3/2013 5:14	0:01	KWP II	0.001	19.602	AGC MAVG - calculated
8/3/2013 5:23	0:01	KWP II	0.010	19.498	AGC MAVG - calculated
8/3/2013 5:34	0:02	KWP II	0.033	19.270	AGC MAVG - calculated
8/3/2013 5:37	0:14	KWP II	0.856	19.837	AGC MAVG - calculated
8/3/2013 6:14	0:01	KWP II	0.010	19.521	AGC MAVG - calculated
8/3/2013 6:16	0:02	KWP II	0.007	20.047	AGC MAVG - calculated
8/3/2013 6:19	0:08	KWP II	0.268	20.504	AGC MAVG - calculated
8/3/2013 6:34	0:02	KWP II	0.018	20.599	AGC MAVG - calculated
8/3/2013 6:37	0:55	KWP II	5.305	20.665	AGC MAVG - calculated
8/3/2013 7:33	0:01	KWP II	0.029	16.901	AGC MAVG - calculated
8/3/2013 8:08	0:01	KWP II	0.007	18.039	AGC MAVG - calculated
8/3/2013 8:10	0:01	KWP II	0.002	16.462	AGC MAVG - calculated
8/3/2013 8:28	0:01	KWP II	0.028	15.557	AGC MAVG - calculated
8/3/2013 8:41	0:01	KWP II	0.033	16.862	AGC MAVG - calculated
8/3/2013 8:46	0:01	KWP II	0.035	18.083	AGC MAVG - calculated
8/3/2013 9:02	0:01	KWP II	0.019	17.817	AGC MAVG - calculated
8/3/2013 9:06	0:02	KWP II	0.011	18.932	AGC MAVG - calculated

DOCKET NO. 2011-0206
 ORDER NO. 30371 I.C.(3)(a)&(b)
 ATTACHMENT 6
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Maui Electric Company - Maui Curtailment Report August 2013

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWh	Peak MW Curtailed	Reasons for Curtailment
8/3/2013 11:39	0:03	KWP II	0.020	19 711	AGC MAVG - calculated
8/3/2013 11:43	0:02	KWP II	0.029	19 801	AGC MAVG - calculated
8/3/2013 12:15	0:01	KWP II	0.018	19 638	AGC MAVG - calculated
8/3/2013 13:19	0:01	KWP II	0.006	19 734	AGC MAVG - calculated
8/3/2013 13:26	0:01	KWP II	0.006	19 990	AGC MAVG - calculated
8/3/2013 13:37	0:04	KWP II	0.049	19 641	AGC MAVG - calculated
8/3/2013 14:30	0:01	KWP II	0.006	20 310	AGC MAVG - calculated
8/3/2013 14:32	0:02	KWP II	0.009	20 315	AGC MAVG - calculated
8/3/2013 20:24	1:14	KWP II	7.958	20 686	AGC MAVG - entered - Maintaining Regulating Reserves and AGC MAVG - calculated
8/3/2013 22:04	0:06	KWP II	0.128	20 570	AGC MAVG - calculated
8/3/2013 22:11	0:01	KWP II	0.012	20 489	AGC MAVG - calculated
8/3/2013 22:29	2:01	KWP II	14.670	20 306	AGC MAVG - entered - Maintaining Regulating Reserves, AGC MAVG - calculated
8/4/2013 0:33	0:02	KWP II	0.042	19 111	AGC MAVG - calculated
8/4/2013 1:01	0:41	KWP II	4.580	20 136	AGC MAVG - entered - Maintaining Regulating Reserves, AGC MAVG - entered, and AGC MAVG - calculated
8/4/2013 1:44	0:01	KWP II	0.027	16 807	AGC MAVG - calculated
8/4/2013 1:48	0:01	KWP II	0.007	15 477	AGC MAVG - calculated
8/4/2013 2:07	0:01	KWP II	0.004	14 648	AGC MAVG - calculated
8/4/2013 2:12	0:01	KWP II	0.004	11 564	AGC MAVG - calculated
8/4/2013 2:20	0:02	KWP II	0.033	17 924	AGC MAVG - calculated
8/4/2013 2:24	0:03	KWP II	0.091	17 968	AGC MAVG - calculated
8/4/2013 2:29	0:01	KWP II	0.037	18 909	AGC MAVG - calculated
8/4/2013 2:32	1:39	KWP II	13 138	20 512	AGC MAVG - calculated AGC MAVG - entered - Maintaining Regulating Reserves, and AGC MAVG - calculated
8/4/2013 4:12	0:03	KWP II	0.024	19 355	AGC MAVG - calculated
8/4/2013 4:16	1:20	KWP II	11 037	20 658	AGC MAVG - entered - Maintaining Regulating Reserves and AGC MAVG - calculated
8/4/2013 5:35	0:01	KWP II	0.006	19 305	AGC MAVG - calculated
8/4/2013 5:42	0:02	KWP II	0.026	18 886	AGC MAVG - calculated
8/4/2013 5:46	0:03	KWP II	0.040	17 838	AGC MAVG - calculated
8/4/2013 5:57	0:03	KWP II	0.019	20 127	AGC MAVG - calculated
8/4/2013 6:01	0:07	KWP II	0.131	20 699	AGC MAVG - calculated
8/4/2013 6:08	0:03	KWP II	0.048	20 708	AGC MAVG - calculated
8/4/2013 6:18	3:12	KWP II	32 183	20 708	AGC MAVG - calculated and Good Engineering and Operating Practices
8/4/2013 9:32	0:02	KWP II	0.053	19 071	AGC MAVG - calculated
8/4/2013 9:35	0:03	KWP II	0.075	19 274	AGC MAVG - calculated and Good Engineering and Operating Practices
8/4/2013 9:39	0:01	KWP II	0.011	18 083	AGC MAVG - calculated and Good Engineering and Operating Practices
8/4/2013 9:44	0:01	KWP II	0.032	19 052	AGC MAVG - calculated and Good Engineering and Operating Practices
8/4/2013 9:47	0:01	KWP II	0.020	18 003	AGC MAVG - calculated and Good Engineering and Operating Practices
8/4/2013 10:15	0:01	KWP II	0.005	20 091	AGC MAVG - calculated and Good Engineering and Operating Practices
8/4/2013 10:21	0:01	KWP II	0.018	19 970	AGC MAVG - calculated
8/4/2013 13:34	0:01	KWP II	0.011	15 069	AGC MAVG - calculated and Testing
8/4/2013 23:05	0:02	KWP II	0.011	20 371	AGC MAVG - calculated
8/5/2013 0:23	0:02	KWP II	0.034	19 234	AGC MAVG - calculated
8/5/2013 0:26	0:01	KWP II	0.041	18 668	AGC MAVG - calculated
8/5/2013 0:32	0:02	KWP II	0.040	19 602	AGC MAVG - calculated
8/5/2013 0:50	0:02	KWP II	0.049	19 853	AGC MAVG - calculated
8/5/2013 0:53	0:02	KWP II	0.035	19 430	AGC MAVG - calculated
8/5/2013 0:58	0:02	KWP II	0.028	19 237	AGC MAVG - calculated
8/5/2013 1:17	0:19	KWP II	0.961	20 663	AGC MAVG - calculated
8/5/2013 1:49	0:01	KWP II	0.009	20 218	AGC MAVG - calculated
8/5/2013 1:51	0:06	KWP II	0.125	20 571	AGC MAVG - calculated
8/5/2013 2:03	0:22	KWP II	0.791	20 705	AGC MAVG - calculated
8/5/2013 2:33	0:01	KWP II	0.003	20 481	AGC MAVG - calculated
8/5/2013 2:35	0:02	KWP II	0.013	20 501	AGC MAVG - calculated
8/5/2013 2:54	0:01	KWP II	0.002	20 352	AGC MAVG - calculated
8/5/2013 2:58	0:01	KWP II	0.007	20 051	AGC MAVG - calculated
8/5/2013 2:58	1:34	KWP II	7 085	20 703	AGC MAVG - calculated
8/5/2013 4:40	0:01	KWP II	0.002	19 727	AGC MAVG - calculated
8/5/2013 4:54	0:11	KWP II	0.574	20 446	AGC MAVG - calculated
8/5/2013 5:05	0:01	KWP II	0.068	20 841	AGC MAVG - calculated
8/5/2013 5:06	0:02	KWP II	0.030	20 689	AGC MAVG - calculated
8/5/2013 5:13	0:01	KWP II	0.011	20 687	AGC MAVG - calculated
8/5/2013 5:30	0:07	KWP II	0.124	20 508	AGC MAVG - calculated
8/5/2013 5:38	0:01	KWP II	0.004	20 270	AGC MAVG - calculated
8/5/2013 5:41	0:19	KWP II	1 014	20 169	AGC MAVG - calculated
8/5/2013 6:04	0:01	KWP II	0.007	20 165	AGC MAVG - calculated
8/5/2013 6:19	0:20	KWP II	1 786	20 707	AGC MAVG - calculated
8/5/2013 7:48	0:01	KWP II	0.001	20 594	AGC MAVG - calculated and Testing
8/5/2013 8:37	0:01	KWP II	0.002	19 971	AGC MAVG - calculated and Testing
8/5/2013 8:42	0:01	KWP II	0.013	20 329	AGC MAVG - calculated and Testing
8/5/2013 8:46	0:04	KWP II	0.082	20 686	AGC MAVG - calculated and Testing
8/5/2013 9:13	0:03	KWP II	0.055	20 630	AGC MAVG - calculated and Testing
8/5/2013 9:17	0:01	KWP II	0.001	20 581	AGC MAVG - calculated and Testing
8/5/2013 9:21	0:01	KWP II	0.000	20 526	AGC MAVG - calculated and Testing
8/5/2013 9:23	0:02	KWP II	0.004	20 650	AGC MAVG - calculated and Testing
8/5/2013 9:26	0:01	KWP II	0.008	20 636	AGC MAVG - calculated and Testing
8/5/2013 9:46	0:01	KWP II	0.007	19 980	AGC MAVG - calculated and Testing
8/5/2013 10:15	0:02	KWP II	0.027	20 256	AGC MAVG - calculated
8/5/2013 10:17	0:07	KWP II	0.123	20 136	AGC MAVG - calculated and Testing
8/5/2013 10:25	0:02	KWP II	0.026	19 694	AGC MAVG - calculated and Testing
8/5/2013 10:30	0:02	KWP II	0.039	19 962	AGC MAVG - calculated and Testing
8/5/2013 10:34	0:04	KWP II	0.042	19 955	AGC MAVG - calculated and Testing
8/5/2013 10:40	0:06	KWP II	0.458	20 180	AGC MAVG - calculated and Testing
8/5/2013 10:50	0:05	KWP II	0.289	19 618	AGC MAVG - calculated and Testing
8/5/2013 10:57	0:04	KWP II	0.084	19 510	AGC MAVG - calculated and Testing
8/5/2013 11:14	0:02	KWP II	0.030	19 351	AGC MAVG - calculated and Testing
8/5/2013 11:25	0:02	KWP II	0.029	19 218	AGC MAVG - calculated
8/5/2013 11:30	0:03	KWP II	0.050	19 017	AGC MAVG - calculated
8/5/2013 11:35	0:01	KWP II	0.007	18 987	AGC MAVG - calculated
8/5/2013 11:37	0:02	KWP II	0.027	19 278	AGC MAVG - calculated
8/5/2013 11:43	0:01	KWP II	0.017	18 618	AGC MAVG - calculated
8/5/2013 11:43	0:01	KWP II	0.014	18 549	AGC MAVG - calculated
8/5/2013 11:45	0:01	KWP II	0.000	19 359	AGC MAVG - calculated
8/5/2013 11:57	0:03	KWP II	0.063	18 366	AGC MAVG - calculated
8/5/2013 12:01	0:04	KWP II	0.248	19 283	AGC MAVG - calculated
8/5/2013 12:08	0:09	KWP II	0.443	19 923	AGC MAVG - calculated
8/5/2013 12:17	0:04	KWP II	0.106	19 278	AGC MAVG - calculated
8/5/2013 12:23	0:06	KWP II	0.249	20 317	AGC MAVG - calculated
8/5/2013 12:33	0:03	KWP II	0.060	20 109	AGC MAVG - calculated
8/5/2013 12:40	0:01	KWP II	0.019	20 118	AGC MAVG - calculated
8/5/2013 12:50	0:01	KWP II	0.006	19 998	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
8/5/2013 13:15	0:01	KWP II	0.002	17 456	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
8/5/2013 13:27	0:02	KWP II	0.024	18 097	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
8/5/2013 14:15	0:01	KWP II	0.019	18 917	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
8/5/2013 14:17	0:09	KWP II	0.469	19 108	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
8/5/2013 14:27	0:01	KWP II	0.001	16 593	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
8/5/2013 15:05	0:01	KWP II	0.008	17 615	AGC MAVG - calculated and Testing
8/5/2013 15:10	0:01	KWP II	0.022	18 181	AGC MAVG - calculated
8/5/2013 15:12	0:02	KWP II	0.015	17 388	AGC MAVG - calculated
8/5/2013 15:15	0:01	KWP II	0.004	17 307	AGC MAVG - calculated
8/5/2013 17:35	0:01	KWP II	0.001	20 505	AGC MAVG - calculated

Maul Electric Company - Maui Curtailment Report August 2013

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWh	Peak MW Curtailed	Reasons for Curtailment
8/5/2013 17:43	0:01	KWP II	0.007	20.463	AGC MAVG - calculated
8/5/2013 17:46	0:02	KWP II	0.013	20.666	AGC MAVG - calculated
8/5/2013 17:52	0:01	KWP II	0.001	20.660	AGC MAVG - calculated
8/5/2013 17:55	0:01	KWP II	0.005	20.679	AGC MAVG - calculated
8/5/2013 18:05	0:04	KWP II	0.045	20.705	AGC MAVG - calculated and Testing
8/5/2013 18:10	0:02	KWP II	0.007	20.801	AGC MAVG - calculated and Testing
8/5/2013 18:15	0:03	KWP II	0.007	20.684	AGC MAVG - calculated and Testing
8/5/2013 18:22	0:02	KWP II	0.025	20.701	AGC MAVG - calculated and Testing
8/5/2013 18:26	0:01	KWP II	0.013	20.703	AGC MAVG - calculated
8/5/2013 18:29	0:02	KWP II	0.009	20.667	AGC MAVG - calculated
8/5/2013 18:37	0:01	KWP II	0.010	20.670	AGC MAVG - calculated
8/5/2013 18:41	0:04	KWP II	0.044	20.615	AGC MAVG - calculated
8/5/2013 18:46	0:02	KWP II	0.006	20.279	AGC MAVG - calculated
8/5/2013 20:13	0:53	KWP II	4.485	20.702	AGC MAVG - entered - Maintaining Regulating Reserves and AGC MAVG - calculated
8/5/2013 21:08	3:23	KWP II	31.456	20.708	AGC MAVG - calculated
8/6/2013 0:35	3:47	KWP II	34.311	20.688	AGC MAVG - calculated
8/6/2013 4:24	0:02	KWP II	0.036	20.497	AGC MAVG - calculated
8/6/2013 4:36	0:01	KWP II	0.000	20.307	AGC MAVG - calculated
8/6/2013 5:24	0:01	KWP II	0.003	20.616	AGC MAVG - calculated
8/6/2013 6:34	0:01	KWP II	0.003	20.512	AGC MAVG - calculated
8/6/2013 6:38	0:05	KWP II	0.213	20.637	AGC MAVG - calculated
8/6/2013 7:25	0:04	KWP II	0.074	20.497	AGC MAVG - calculated and Good Engineering and Operating Practices
8/6/2013 7:34	0:01	KWP II	0.003	19.985	AGC MAVG - calculated and Good Engineering and Operating Practices
8/6/2013 23:15	0:23	KWP II	0.623	19.452	AGC MAVG - calculated
8/7/2013 0:26	0:10	KWP II	0.010	18.702	AGC MAVG - calculated
8/7/2013 0:33	0:01	KWP II	0.008	19.484	AGC MAVG - calculated
8/7/2013 0:38	0:01	KWP II	0.010	19.033	AGC MAVG - calculated
8/7/2013 1:15	0:17	KWP II	0.238	20.688	AGC MAVG - calculated
8/7/2013 1:35	0:04	KWP II	0.027	20.451	AGC MAVG - calculated
8/7/2013 1:40	0:01	KWP II	0.010	19.891	AGC MAVG - calculated
8/7/2013 1:42	0:03	KWP II	0.048	19.768	AGC MAVG - calculated
8/7/2013 1:46	0:01	KWP II	0.010	19.587	AGC MAVG - calculated
8/7/2013 1:49	0:01	KWP II	0.010	19.454	AGC MAVG - calculated
8/7/2013 1:51	0:10	KWP II	0.223	20.300	AGC MAVG - calculated
8/7/2013 2:02	0:01	KWP II	0.015	20.157	AGC MAVG - calculated
8/7/2013 2:06	0:04	KWP II	0.041	20.157	AGC MAVG - calculated
8/7/2013 2:18	0:01	KWP II	0.003	20.579	AGC MAVG - calculated
8/7/2013 2:21	0:01	KWP II	0.004	19.962	AGC MAVG - calculated
8/7/2013 2:34	0:01	AWE	0.003	0.300	AGC MAVG - calculated
8/7/2013 2:34	0:01	KWP II	0.014	19.104	AGC MAVG - calculated
8/7/2013 2:42	0:02	KWP II	0.022	17.863	AGC MAVG - calculated
8/7/2013 2:51	0:04	KWP II	0.065	20.074	AGC MAVG - calculated
8/7/2013 2:58	0:31	KWP II	1.562	20.360	AGC MAVG - calculated
8/7/2013 2:59	0:01	AWE	0.005	0.300	AGC MAVG - calculated
8/7/2013 3:28	0:03	KWP II	0.061	19.701	AGC MAVG - calculated
8/7/2013 3:33	0:03	KWP II	0.028	19.522	AGC MAVG - calculated
8/7/2013 3:34	0:01	AWE	0.003	0.200	AGC MAVG - calculated
8/7/2013 3:37	0:02	KWP II	0.023	19.486	AGC MAVG - calculated
8/7/2013 3:40	0:23	KWP II	1.063	20.361	AGC MAVG - calculated
8/7/2013 4:04	0:09	KWP II	0.241	20.374	AGC MAVG - calculated
8/7/2013 4:15	0:02	KWP II	0.034	20.547	AGC MAVG - calculated
8/7/2013 4:18	0:02	KWP II	0.016	20.477	AGC MAVG - calculated
8/7/2013 4:21	0:03	KWP II	0.064	20.092	AGC MAVG - calculated
8/7/2013 4:47	0:01	AWE	0.002	0.100	AGC MAVG - calculated
8/7/2013 5:10	0:01	AWE	0.002	0.100	AGC MAVG - calculated
8/7/2013 5:12	0:06	KWP II	0.074	20.688	AGC MAVG - calculated
8/7/2013 8:26	0:01	KWP II	0.000	20.697	AGC MAVG - calculated and Testing
8/7/2013 8:26	0:10	KWP II	0.840	20.689	AGC MAVG - calculated and Testing
8/7/2013 8:44	0:07	KWP II	0.187	20.544	AGC MAVG - calculated and Testing
8/7/2013 8:55	0:01	KWP II	0.000	20.408	AGC MAVG - calculated and Testing
8/7/2013 8:57	0:01	KWP II	0.009	20.553	AGC MAVG - calculated and Testing
8/7/2013 8:58	0:01	KWP II	0.011	20.532	AGC MAVG - calculated and Testing
8/7/2013 9:03	0:01	KWP II	0.001	20.221	AGC MAVG - calculated and Testing
8/7/2013 17:00	0:03	KWP II	0.064	17.795	AGC MAVG - calculated and Testing
8/7/2013 17:04	0:03	KWP II	0.033	17.790	AGC MAVG - calculated and Testing
8/7/2013 17:14	0:01	KWP II	0.000	18.548	AGC MAVG - calculated and Testing
8/7/2013 19:02	0:03	KWP II	0.008	19.977	AGC MAVG - calculated
8/7/2013 19:06	0:01	KWP II	0.006	20.422	AGC MAVG - calculated
8/7/2013 21:14	0:20	KWP II	2.384	20.579	AGC MAVG - entered - Maintaining Regulating Reserves
8/7/2013 22:06	0:01	KWP II	0.010	20.196	AGC MAVG - calculated
8/7/2013 22:12	0:01	KWP II	0.006	19.347	AGC MAVG - calculated
8/7/2013 22:14	0:02	KWP II	0.049	18.990	AGC MAVG - calculated
8/7/2013 22:23	0:01	KWP II	0.009	15.889	AGC MAVG - calculated
8/7/2013 22:46	0:06	KWP II	0.134	18.268	AGC MAVG - calculated
8/7/2013 22:52	0:14	KWP II	0.355	20.337	AGC MAVG - calculated
8/7/2013 22:47	0:10	KWP II	0.196	20.363	AGC MAVG - calculated
8/7/2013 23:07	0:04	KWP II	0.046	20.505	AGC MAVG - calculated
8/7/2013 23:13	0:02	KWP II	0.016	19.556	AGC MAVG - calculated
8/7/2013 23:16	0:25	KWP II	1.662	19.765	AGC MAVG - calculated
8/7/2013 23:43	0:32	KWP II	2.645	20.246	AGC MAVG - calculated
8/8/2013 0:16	0:07	KWP II	0.396	18.187	AGC MAVG - calculated
8/8/2013 0:52	0:01	KWP II	0.026	13.510	AGC MAVG - calculated
8/8/2013 1:01	0:09	KWP II	0.300	16.768	AGC MAVG - calculated
8/8/2013 1:11	0:07	KWP II	0.253	15.302	AGC MAVG - calculated
8/8/2013 1:19	0:11	KWP II	0.832	18.402	AGC MAVG - calculated
8/8/2013 1:43	0:05	KWP II	0.049	13.729	AGC MAVG - calculated
8/8/2013 1:50	0:01	KWP II	0.011	14.690	AGC MAVG - calculated
8/8/2013 1:58	2:14	KWP II	31.698	20.630	AGC MAVG - calculated
8/8/2013 3:23	0:01	AWE	0.002	12.800	AGC MAVG - calculated
8/8/2013 3:28	0:01	AWE	0.010	13.200	AGC MAVG - calculated
8/8/2013 3:36	0:10	AWE	0.374	16.100	AGC MAVG - calculated
8/8/2013 3:41	0:14	AWE	0.431	15.800	AGC MAVG - calculated
8/8/2013 3:58	0:01	AWE	0.006	12.400	AGC MAVG - calculated
8/8/2013 4:00	0:01	AWE	0.003	13.600	AGC MAVG - calculated
8/8/2013 4:02	0:02	AWE	0.021	14.200	AGC MAVG - calculated
8/8/2013 4:06	0:01	AWE	0.001	14.400	AGC MAVG - calculated
8/8/2013 4:15	1:37	KWP II	13.646	20.253	AGC MAVG - calculated
8/8/2013 5:53	0:02	KWP II	0.078	16.639	AGC MAVG - calculated
8/8/2013 5:57	0:01	KWP II	0.001	17.665	AGC MAVG - calculated
8/8/2013 5:58	0:08	KWP II	0.172	19.673	AGC MAVG - calculated
8/8/2013 6:06	0:04	KWP II	0.033	19.302	AGC MAVG - calculated
8/8/2013 6:15	0:01	KWP II	0.003	18.633	AGC MAVG - calculated and Testing
8/8/2013 6:18	0:01	KWP II	0.007	19.134	AGC MAVG - calculated and Testing
8/8/2013 6:21	0:05	KWP II	0.066	19.511	AGC MAVG - calculated and Testing
8/8/2013 6:27	0:16	KWP II	0.582	19.412	AGC MAVG - calculated and Testing
8/8/2013 6:53	0:47	KWP II	6.142	20.449	AGC MAVG - calculated and Testing
8/8/2013 7:43	0:22	KWP II	1.305	17.326	AGC MAVG - calculated and Testing
8/8/2013 8:07	0:06	KWP II	0.309	18.803	AGC MAVG - calculated and Testing
8/8/2013 8:30	0:03	KWP II	0.030	14.142	AGC MAVG - calculated and Testing
8/8/2013 8:32	0:12	KWP II	0.026	14.698	AGC MAVG - calculated and Testing
8/8/2013 8:40	0:02	KWP II	0.001	14.343	AGC MAVG - calculated and Testing
8/8/2013 8:44	0:01	KWP II	0.000	13.144	AGC MAVG - calculated and Testing

Maul Electric Company - Maul Curtailment Report August 2013

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
8/8/2013 8:46	0:02	KWP II	0.084	13.334	AGC MAVG - calculated and Testing
8/8/2013 8:49	0:02	KWP II	0.038	11.440	AGC MAVG - calculated and Testing
8/8/2013 8:53	0:01	KWP II	0.025	12.234	AGC MAVG - calculated and Testing
8/8/2013 8:56	0:08	KWP II	0.087	19.262	AGC MAVG - calculated and Testing
8/8/2013 9:05	0:06	KWP II	0.176	18.103	AGC MAVG - calculated and Testing
8/8/2013 9:12	0:02	KWP II	0.041	17.398	AGC MAVG - calculated and Testing
8/8/2013 9:15	0:08	KWP II	0.246	20.222	AGC MAVG - calculated and Testing
8/8/2013 9:23	0:01	KWP II	0.037	19.343	AGC MAVG - calculated and Testing
8/8/2013 9:30	0:02	KWP II	0.027	18.811	AGC MAVG - calculated and Testing
8/8/2013 9:33	0:02	KWP II	0.014	17.194	AGC MAVG - calculated and Testing
8/8/2013 9:48	0:05	KWP II	0.245	19.878	AGC MAVG - calculated and Testing
8/8/2013 10:03	0:03	KWP II	0.084	19.750	AGC MAVG - calculated and Testing
8/8/2013 10:07	0:01	KWP II	0.028	18.065	AGC MAVG - calculated and Testing
8/8/2013 10:08	0:02	KWP II	0.011	18.833	AGC MAVG - calculated and Testing
8/8/2013 10:16	0:03	KWP II	0.055	19.199	AGC MAVG - calculated and Testing
8/8/2013 12:37	0:06	AWE	0.119	17.800	AGC MAVG - calculated and Testing
8/8/2013 15:15	0:07	KWP II	0.178	14.977	AGC MAVG - calculated and Testing
8/8/2013 15:23	0:04	KWP II	0.078	14.269	AGC MAVG - calculated and Testing
8/8/2013 15:26	0:01	KWP II	0.016	15.109	AGC MAVG - calculated and Testing
8/8/2013 15:33	0:01	KWP II	0.008	18.243	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
8/8/2013 15:37	0:01	KWP II	0.001	18.050	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
8/8/2013 16:09	0:07	KWP II	0.329	17.128	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
8/8/2013 16:17	0:10	KWP II	0.417	18.182	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
8/8/2013 16:28	0:01	KWP II	0.004	19.130	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
8/8/2013 16:37	0:03	KWP II	0.042	18.508	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
8/8/2013 16:43	0:08	KWP II	0.163	19.889	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
8/8/2013 16:52	0:01	KWP II	0.004	18.658	AGC MAVG - calculated and Testing
8/8/2013 16:56	0:02	KWP II	0.027	19.542	AGC MAVG - calculated and Testing
8/8/2013 16:58	0:04	KWP II	0.088	19.508	AGC MAVG - calculated and Testing
8/8/2013 17:06	0:01	KWP II	0.006	18.485	AGC MAVG - calculated and Testing
8/8/2013 17:09	0:01	KWP II	0.002	18.195	AGC MAVG - calculated and Testing
8/8/2013 17:11	0:03	KWP II	0.033	19.085	AGC MAVG - calculated and Testing
8/8/2013 17:16	0:01	KWP II	0.002	17.991	AGC MAVG - calculated and Testing
8/8/2013 17:21	0:02	KWP II	0.016	18.356	AGC MAVG - calculated and Testing
8/8/2013 18:18	0:01	KWP II	0.018	17.162	AGC MAVG - calculated and Testing
8/8/2013 18:32	0:01	KWP II	0.004	18.691	AGC MAVG - calculated and Testing
8/8/2013 23:04	0:03	KWP II	0.018	20.307	AGC MAVG - calculated
8/8/2013 23:09	0:01	KWP II	0.009	19.856	AGC MAVG - calculated
8/8/2013 23:12	0:01	KWP II	0.002	19.882	AGC MAVG - calculated
8/8/2013 23:14	0:36	KWP II	2.774	20.701	AGC MAVG - calculated
8/8/2013 23:51	0:05	KWP II	0.146	20.115	AGC MAVG - calculated
8/8/2013 23:57	0:02	KWP II	0.027	18.158	AGC MAVG - calculated
8/8/2013 0:03	0:01	KWP II	0.007	18.183	AGC MAVG - calculated
8/8/2013 0:06	0:05	KWP II	0.082	19.794	AGC MAVG - calculated
8/8/2013 0:11	0:03	KWP II	0.081	19.083	AGC MAVG - calculated
8/8/2013 0:15	0:09	KWP II	0.446	20.201	AGC MAVG - calculated
8/8/2013 0:33	0:10	KWP II	0.299	20.439	AGC MAVG - calculated
8/8/2013 1:06	0:01	KWP II	0.010	19.572	AGC MAVG - calculated
8/8/2013 1:16	0:01	KWP II	0.005	20.455	AGC MAVG - calculated
8/8/2013 1:21	0:01	KWP II	0.002	20.490	AGC MAVG - calculated
8/8/2013 1:49	0:03	KWP II	0.035	19.722	AGC MAVG - calculated
8/8/2013 1:54	0:01	KWP II	0.025	19.235	AGC MAVG - calculated
8/8/2013 1:56	0:02	KWP II	0.021	18.614	AGC MAVG - calculated
8/8/2013 1:58	0:01	KWP II	0.018	18.292	AGC MAVG - calculated
8/8/2013 2:01	1:12	KWP II	5.450	19.478	AGC MAVG - calculated
8/8/2013 3:14	0:54	KWP II	6.370	19.382	AGC MAVG - calculated
8/8/2013 4:12	0:04	KWP II	0.123	19.121	AGC MAVG - calculated
8/8/2013 4:20	0:09	KWP II	0.242	19.598	AGC MAVG - calculated
8/8/2013 4:30	0:02	KWP II	0.019	18.972	AGC MAVG - calculated
8/8/2013 4:37	0:01	KWP II	0.000	17.816	AGC MAVG - calculated
8/8/2013 4:41	0:03	KWP II	0.052	19.481	AGC MAVG - calculated
8/8/2013 4:48	0:14	KWP II	0.251	18.821	AGC MAVG - calculated
8/8/2013 5:01	0:04	KWP II	0.018	19.545	AGC MAVG - calculated
8/8/2013 5:08	0:01	KWP II	0.022	18.852	AGC MAVG - calculated
8/8/2013 5:48	0:01	KWP II	0.013	15.963	AGC MAVG - calculated
8/8/2013 12:09	0:02	KWP II	0.061	17.886	AGC MAVG - calculated
8/8/2013 12:15	0:04	KWP II	0.149	18.021	AGC MAVG - calculated
8/8/2013 12:20	0:03	KWP II	0.127	17.703	AGC MAVG - calculated
8/8/2013 12:24	0:10	KWP II	0.420	17.320	AGC MAVG - calculated
8/8/2013 12:35	0:01	KWP II	0.009	17.321	AGC MAVG - calculated
8/8/2013 12:37	0:01	KWP II	0.015	17.973	AGC MAVG - calculated
8/8/2013 13:38	0:08	KWP II	0.104	19.090	AGC MAVG - calculated
8/8/2013 13:47	0:02	KWP II	0.017	18.847	AGC MAVG - calculated
8/8/2013 13:51	0:03	KWP II	0.058	20.402	AGC MAVG - calculated
8/8/2013 13:55	0:01	KWP II	0.033	20.320	AGC MAVG - calculated
8/8/2013 13:58	0:01	KWP II	0.001	19.899	AGC MAVG - calculated
8/8/2013 14:07	0:01	KWP II	0.007	20.002	AGC MAVG - calculated
8/8/2013 14:11	0:35	KWP II	1.414	20.688	AGC MAVG - calculated and Testing
8/8/2013 14:47	0:01	KWP II	0.009	20.543	AGC MAVG - calculated
8/8/2013 14:54	0:01	KWP II	0.001	20.868	AGC MAVG - calculated
8/8/2013 14:58	0:01	KWP II	0.001	20.679	AGC MAVG - calculated
8/8/2013 16:28	0:01	KWP II	0.002	20.702	AGC MAVG - calculated and Testing
8/8/2013 16:31	0:03	KWP II	0.028	20.698	AGC MAVG - calculated and Testing
8/8/2013 17:40	0:02	KWP II	0.004	20.708	AGC MAVG - calculated and Testing
8/8/2013 17:44	0:01	KWP II	0.002	20.708	AGC MAVG - calculated and Testing
8/8/2013 17:48	0:02	KWP II	0.010	20.708	AGC MAVG - calculated and Testing
8/8/2013 18:23	0:11	KWP II	0.280	20.708	AGC MAVG - calculated and Testing
8/8/2013 18:37	0:09	KWP II	0.192	20.708	AGC MAVG - calculated and Testing
8/8/2013 18:47	0:02	KWP II	0.003	20.708	AGC MAVG - calculated and Testing
8/8/2013 19:01	0:01	KWP II	0.001	20.708	AGC MAVG - calculated and Testing
8/8/2013 19:05	0:16	KWP II	0.631	20.708	AGC MAVG - calculated and Testing
8/8/2013 19:23	0:01	KWP II	0.007	20.708	AGC MAVG - calculated and Testing
8/8/2013 19:24	0:01	KWP II	0.004	20.708	AGC MAVG - calculated and Testing
8/8/2013 19:34	0:07	KWP II	0.119	20.708	AGC MAVG - calculated and Testing
8/8/2013 19:43	0:05	KWP II	0.042	20.708	AGC MAVG - calculated and Testing
8/8/2013 20:43	3:28	KWP II	80.292	20.708	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
8/8/2013 23:42	0:08	AWE	0.067	18.500	AGC MAVG - calculated
8/8/2013 23:50	0:07	AWE	0.083	18.800	AGC MAVG - calculated
8/8/2013 23:58	0:02	AWE	0.022	18.800	AGC MAVG - calculated
8/10/2013 0:17	0:01	AWE	0.001	20.000	AGC MAVG - calculated and Good Engineering and Operating Practices
8/10/2013 0:33	0:01	AWE	0.000	19.100	AGC MAVG - calculated
8/10/2013 0:38	0:01	AWE	0.000	19.000	AGC MAVG - calculated
8/10/2013 0:38	0:01	AWE	0.000	18.700	AGC MAVG - calculated
8/10/2013 0:48	0:01	AWE	0.000	18.700	AGC MAVG - calculated
8/10/2013 1:04	0:01	AWE	0.000	19.800	AGC MAVG - calculated
8/10/2013 1:07	0:01	AWE	0.000	18.900	AGC MAVG - calculated
8/10/2013 1:10	0:01	AWE	0.000	18.200	AGC MAVG - calculated
8/10/2013 1:18	0:26	KWP II	3.750	20.189	AGC MAVG - calculated
8/10/2013 1:48	0:02	KWP II	0.030	19.531	AGC MAVG - calculated
8/10/2013 1:53	0:01	KWP II	0.013	16.631	AGC MAVG - calculated
8/10/2013 1:58	0:41	KWP II	3.286	20.258	AGC MAVG - calculated
8/10/2013 2:53	0:02	KWP II	0.013	18.383	AGC MAVG - calculated

DOCKET NO. 2011-0206
ORDER NO. 30371 I.C.(3)(a)&(b)
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Start Date and Time	Duration	IPP Curtailment	Estimated Curtailed MWh	Peak MW Curtailed	Reasons for Curtailment
8/14/2013 10:47	0:03	KWP II	0.072	19.868	AGC MAVG - calculated
8/14/2013 10:51	0:03	KWP II	0.080	20.479	AGC MAVG - calculated
8/14/2013 10:55	0:04	KWP II	0.168	20.527	AGC MAVG - calculated
8/14/2013 11:03	0:03	KWP II	0.028	19.575	AGC MAVG - calculated
8/14/2013 11:06	0:03	KWP II	0.045	19.808	AGC MAVG - calculated
8/14/2013 11:12	0:01	KWP II	0.017	19.844	AGC MAVG - calculated
8/14/2013 11:17	0:03	KWP II	0.050	20.333	AGC MAVG - calculated
8/14/2013 11:23	0:03	KWP II	0.086	20.578	AGC MAVG - calculated
8/14/2013 11:27	0:01	KWP II	0.046	20.291	AGC MAVG - calculated
8/14/2013 11:29	0:07	KWP II	0.172	20.543	AGC MAVG - calculated
8/14/2013 11:37	0:15	KWP II	0.658	20.632	AGC MAVG - calculated
8/14/2013 11:53	0:02	KWP II	0.028	20.085	AGC MAVG - calculated
8/14/2013 11:57	0:01	KWP II	0.007	20.446	AGC MAVG - calculated
8/14/2013 11:59	0:01	KWP II	0.028	20.301	AGC MAVG - calculated
8/14/2013 12:17	0:06	KWP II	0.285	19.535	AGC MAVG - calculated
8/14/2013 12:27	0:01	KWP II	0.008	19.161	AGC MAVG - calculated
8/14/2013 12:28	0:01	KWP II	0.028	19.802	AGC MAVG - calculated
8/14/2013 12:33	0:20	KWP II	1.297	20.545	AGC MAVG - calculated
8/14/2013 12:55	0:02	KWP II	0.012	19.034	AGC MAVG - calculated
8/14/2013 12:58	0:01	KWP II	0.006	19.370	AGC MAVG - calculated
8/14/2013 13:01	0:01	KWP II	0.028	20.037	AGC MAVG - calculated
8/14/2013 13:07	0:03	KWP II	0.024	19.656	AGC MAVG - calculated
8/14/2013 13:11	0:01	KWP II	0.007	19.207	AGC MAVG - calculated
8/14/2013 13:13	0:01	KWP II	0.002	19.539	AGC MAVG - calculated
8/14/2013 13:42	0:01	KWP II	0.004	20.320	AGC MAVG - calculated
8/14/2013 13:33	0:04	KWP II	0.013	20.708	AGC MAVG - calculated
8/14/2013 13:45	0:01	KWP II	0.002	20.707	AGC MAVG - calculated
8/14/2013 13:53	0:01	KWP II	0.001	20.688	AGC MAVG - calculated
8/14/2013 13:36	0:30	KWP II	0.583	20.708	AGC MAVG - calculated
8/14/2013 20:19	2:55	KWP II	29.465	20.708	AGC MAVG - calculated
8/14/2013 23:08	0:02	AWE	0.002	16.100	AGC MAVG - calculated
8/14/2013 23:15	0:38	KWP II	7.712	19.683	AGC MAVG - calculated
8/15/2013 1:16	0:02	KWP II	0.072	5.129	AGC MAVG - calculated
8/15/2013 1:26	0:01	KWP II	0.167	16.151	AGC MAVG - calculated
8/15/2013 1:28	0:01	AWE	0.001	10.500	AGC MAVG - calculated
8/15/2013 1:28	4:06	KWP II	77.865	20.693	AGC MAVG - calculated, AGC MAVG - entered - Maintaining Regulating Reserves, AGC MAVG - calculated
8/15/2013 2:05	0:01	AWE	0.001	13.000	AGC MAVG - entered - Maintaining Regulating Reserves
8/15/2013 2:07	0:01	AWE	0.000	11.100	AGC MAVG - entered - Maintaining Regulating Reserves
8/15/2013 2:16	0:01	AWE	0.001	9.600	AGC MAVG - entered - Maintaining Regulating Reserves
8/15/2013 2:19	0:01	AWE	0.001	9.000	AGC MAVG - entered - Maintaining Regulating Reserves
8/15/2013 2:33	0:01	AWE	0.005	7.300	AGC MAVG - entered - Maintaining Regulating Reserves
8/15/2013 2:48	0:01	AWE	0.001	7.100	AGC MAVG - entered - Maintaining Regulating Reserves
8/15/2013 2:50	1:34	AWE	3.812	17.500	AGC MAVG - entered - Maintaining Regulating Reserves and AGC MAVG - calculated
8/15/2013 4:26	0:01	AWE	0.001	9.100	AGC MAVG - calculated
8/15/2013 4:35	0:28	AWE	0.367	13.700	AGC MAVG - entered
8/15/2013 5:38	3:22	KWP II	35.178	20.708	AGC MAVG - calculated, AGC MAVG - entered - Maintaining Regulating Reserves, AGC MAVG - calculated
8/15/2013 9:02	1:17	KWP II	6.082	20.708	AGC MAVG - entered - Maintaining Regulating Reserves, and AGC MAVG - calculated
8/15/2013 10:21	0:02	KWP II	0.010	19.211	AGC MAVG - calculated
8/15/2013 10:25	0:09	KWP II	0.149	20.708	AGC MAVG - calculated
8/15/2013 10:35	0:25	KWP II	0.564	20.699	AGC MAVG - calculated
8/15/2013 11:10	0:01	KWP II	0.003	20.666	AGC MAVG - calculated
8/15/2013 11:14	0:01	KWP II	0.004	20.661	AGC MAVG - calculated
8/15/2013 11:16	0:02	KWP II	0.028	20.651	AGC MAVG - calculated
8/15/2013 11:19	0:03	KWP II	0.063	20.592	AGC MAVG - calculated
8/15/2013 11:23	0:02	KWP II	0.013	20.814	AGC MAVG - calculated
8/15/2013 11:26	0:04	KWP II	0.038	20.650	AGC MAVG - calculated
8/15/2013 11:31	0:05	KWP II	0.027	20.632	AGC MAVG - calculated
8/15/2013 11:48	0:14	KWP II	0.572	20.550	AGC MAVG - calculated
8/15/2013 12:04	0:08	KWP II	0.352	20.813	AGC MAVG - calculated
8/15/2013 12:14	0:02	KWP II	0.063	20.339	AGC MAVG - calculated
8/15/2013 12:17	0:01	KWP II	0.015	20.362	AGC MAVG - calculated
8/15/2013 12:20	0:19	KWP II	1.007	20.658	AGC MAVG - calculated
8/15/2013 12:40	0:24	KWP II	1.106	20.689	AGC MAVG - calculated
8/15/2013 13:05	0:01	KWP II	0.027	20.630	AGC MAVG - calculated
8/15/2013 13:07	0:01	KWP II	0.000	20.628	AGC MAVG - calculated
8/15/2013 13:21	0:03	KWP II	0.037	20.638	AGC MAVG - calculated
8/15/2013 13:25	0:03	KWP II	0.050	20.601	AGC MAVG - calculated
8/15/2013 13:30	0:01	KWP II	0.005	20.682	AGC MAVG - calculated
8/15/2013 13:33	0:01	KWP II	0.008	20.643	AGC MAVG - calculated
8/15/2013 13:36	0:03	KWP II	0.027	20.688	AGC MAVG - calculated
8/15/2013 20:54	0:02	KWP II	0.033	20.708	AGC MAVG - calculated
8/15/2013 21:09	0:32	KWP II	3.313	20.708	AGC MAVG - calculated
8/15/2013 21:42	3:15	KWP II	40.583	20.708	AGC MAVG - calculated
8/15/2013 23:48	0:01	AWE	0.000	21.100	AGC MAVG - calculated
8/16/2013 0:31	0:01	AWE	0.001	20.800	AGC MAVG - calculated
8/16/2013 0:33	0:09	AWE	0.050	20.800	AGC MAVG - calculated
8/16/2013 0:43	0:02	AWE	0.005	19.100	AGC MAVG - calculated
8/16/2013 0:46	0:01	AWE	0.001	19.100	AGC MAVG - calculated
8/16/2013 0:59	1:37	KWP II	27.069	20.657	AGC MAVG - calculated
8/16/2013 1:33	0:01	AWE	0.001	21.100	AGC MAVG - calculated
8/16/2013 1:46	0:01	AWE	0.001	20.100	AGC MAVG - calculated
8/16/2013 1:48	0:01	AWE	0.000	19.600	AGC MAVG - calculated
8/16/2013 1:56	0:01	AWE	0.001	19.600	AGC MAVG - entered
8/16/2013 1:58	0:02	AWE	0.001	19.100	AGC MAVG - entered
8/16/2013 2:05	0:02	AWE	0.004	19.300	AGC MAVG - entered
8/16/2013 2:27	0:01	AWE	0.001	20.000	AGC MAVG - calculated
8/16/2013 2:38	1:53	KWP II	27.199	20.588	AGC MAVG - calculated
8/16/2013 3:20	0:01	AWE	0.000	19.000	AGC MAVG - calculated
8/16/2013 3:26	0:02	AWE	0.006	17.200	AGC MAVG - calculated
8/16/2013 3:30	0:03	AWE	0.011	17.500	AGC MAVG - calculated
8/16/2013 3:38	0:01	AWE	0.001	17.400	AGC MAVG - calculated
8/16/2013 3:43	0:01	AWE	0.000	18.400	AGC MAVG - entered
8/16/2013 3:48	0:04	AWE	0.011	18.500	AGC MAVG - entered - Maintaining Regulating Reserves
8/16/2013 3:53	0:01	AWE	0.001	18.100	AGC MAVG - entered - Maintaining Regulating Reserves
8/16/2013 3:55	0:01	AWE	0.001	18.100	AGC MAVG - entered - Maintaining Regulating Reserves
8/16/2013 3:57	0:01	AWE	0.000	18.100	AGC MAVG - entered - Maintaining Regulating Reserves
8/16/2013 4:00	0:01	AWE	0.000	18.100	AGC MAVG - entered - Maintaining Regulating Reserves
8/16/2013 4:05	0:01	AWE	0.000	18.100	AGC MAVG - entered - Maintaining Regulating Reserves
8/16/2013 4:07	0:01	AWE	0.000	18.100	AGC MAVG - entered - Maintaining Regulating Reserves
8/16/2013 4:09	0:01	AWE	0.000	18.100	AGC MAVG - entered - Maintaining Regulating Reserves
8/16/2013 4:12	0:02	AWE	0.001	18.100	AGC MAVG - entered - Maintaining Regulating Reserves
8/16/2013 4:15	0:01	AWE	0.001	18.100	AGC MAVG - entered - Maintaining Regulating Reserves
8/16/2013 4:33	0:41	KWP II	5.984	19.297	AGC MAVG - calculated
8/16/2013 4:46	0:01	AWE	0.001	20.600	AGC MAVG - calculated
8/16/2013 4:48	0:01	AWE	0.001	21.000	AGC MAVG - calculated
8/16/2013 5:21	3:05	KWP II	27.277	20.708	AGC MAVG - calculated
8/16/2013 8:27	0:34	KWP II	2.721	20.703	AGC MAVG - calculated
8/16/2013 8:03	0:48	KWP II	1.606	20.708	AGC MAVG - calculated
8/16/2013 9:50	0:01	KWP II	0.007	20.703	AGC MAVG - calculated
8/16/2013 9:55	0:01	KWP II	0.002	20.708	AGC MAVG - calculated

Maui Electric Company - Maui Curtailment Report August 2013

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWh	Peak MW Curtailed	Reasons for Curtailment
8/22/2013 13:37	0:02	KWP	0.001	0.018	AGC MAVG - calculated, Testing, Good Engineering and Operating Practices, and Operating Conditions on Company's System
8/22/2013 13:43	0:01	KWP II	0.000	0.024	AGC MAVG - calculated, Testing, Good Engineering and Operating Practices, and Operating Conditions on Company's System
8/22/2013 14:52	0:01	KWP II	0.000	0.018	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
8/22/2013 15:45	0:01	KWP	0.000	0.018	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
8/22/2013 20:49	0:01	KWP	0.003	0.208	AGC MAVG - calculated
8/22/2013 22:58	0:01	KWP II	0.002	0.104	AGC MAVG - calculated
8/23/2013 1:02	0:02	KWP II	0.029	9.008	AGC MAVG - calculated
8/23/2013 1:08	0:02	KWP II	0.014	10.005	AGC MAVG - calculated
8/23/2013 1:21	0:05	KWP II	0.131	11.899	AGC MAVG - calculated
8/23/2013 1:29	0:06	KWP II	0.202	18.184	AGC MAVG - calculated
8/23/2013 1:47	0:03	KWP II	0.096	14.458	AGC MAVG - calculated
8/23/2013 1:52	0:05	KWP II	0.228	14.217	AGC MAVG - calculated
8/23/2013 1:59	1:54	KWP II	12.842	20.615	AGC MAVG - calculated
8/23/2013 7:54	0:01	KWP II	0.010	20.462	AGC MAVG - calculated and Testing
8/23/2013 8:38	0:11	KWP II	0.318	20.519	AGC MAVG - entered - Maintaining Regulating Reserve and Testing
8/23/2013 8:53	0:02	KWP II	0.007	20.487	AGC MAVG - calculated and Testing
8/23/2013 9:05	0:01	KWP II	0.004	20.282	AGC MAVG - calculated and Testing
8/23/2013 9:08	0:01	KWP II	0.024	19.072	AGC MAVG - calculated and Testing
8/23/2013 9:10	0:04	KWP II	0.070	19.680	AGC MAVG - calculated and Testing
8/23/2013 9:19	0:02	KWP II	0.047	19.345	AGC MAVG - calculated and Testing
8/23/2013 9:24	0:02	KWP II	0.032	18.553	AGC MAVG - calculated and Testing
8/23/2013 9:32	0:02	KWP II	0.035	18.998	AGC MAVG - calculated and Testing
8/23/2013 9:36	0:02	KWP II	0.026	19.093	AGC MAVG - calculated and Testing
8/23/2013 9:41	0:03	KWP II	0.023	19.065	AGC MAVG - calculated and Testing
8/23/2013 9:54	0:01	KWP II	0.009	20.177	AGC MAVG - calculated and Testing
8/23/2013 21:13	0:01	KWP II	0.012	12.771	AGC MAVG - calculated
8/23/2013 21:21	0:01	KWP II	0.011	15.181	AGC MAVG - calculated
8/23/2013 21:40	0:02	KWP II	0.020	16.577	AGC MAVG - calculated
8/23/2013 22:08	0:02	KWP II	0.011	18.176	AGC MAVG - calculated
8/23/2013 22:44	0:01	KWP II	0.008	18.362	AGC MAVG - calculated
8/23/2013 22:50	0:02	KWP II	0.029	19.278	AGC MAVG - calculated
8/23/2013 22:53	0:07	KWP II	0.246	19.045	AGC MAVG - calculated
8/23/2013 23:04	0:12	KWP II	0.361	17.081	AGC MAVG - calculated
8/23/2013 23:17	0:06	KWP II	0.175	18.815	AGC MAVG - calculated
8/24/2013 0:01	0:03	KWP II	0.040	18.458	AGC MAVG - calculated
8/24/2013 0:06	0:02	KWP II	0.017	19.756	AGC MAVG - calculated
8/24/2013 0:53	0:01	KWP II	0.004	12.124	AGC MAVG - calculated
8/24/2013 0:58	0:14	KWP II	0.081	20.108	AGC MAVG - calculated
8/24/2013 1:40	0:04	KWP II	0.108	17.505	AGC MAVG - calculated
8/24/2013 1:45	0:08	KWP II	0.253	20.480	AGC MAVG - calculated
8/24/2013 1:58	0:04	KWP II	0.035	20.548	AGC MAVG - calculated
8/24/2013 2:08	0:06	KWP II	0.069	17.995	AGC MAVG - calculated
8/24/2013 2:19	0:06	KWP II	0.220	16.882	AGC MAVG - calculated
8/24/2013 2:37	0:31	KWP II	1.515	16.656	AGC MAVG - calculated
8/24/2013 3:40	0:02	KWP II	0.064	15.948	AGC MAVG - calculated
8/24/2013 3:43	1:18	KWP II	9.730	20.570	AGC MAVG - calculated
8/24/2013 5:07	0:06	KWP II	0.160	20.062	AGC MAVG - calculated
8/24/2013 5:10	1:04	KWP II	4.232	20.658	AGC MAVG - calculated
8/24/2013 6:18	0:02	KWP II	0.087	18.957	AGC MAVG - calculated
8/24/2013 6:19	0:01	KWP II	0.022	17.771	AGC MAVG - calculated
8/24/2013 6:32	0:02	KWP II	0.033	16.075	AGC MAVG - calculated
8/24/2013 6:37	0:06	KWP II	0.124	13.926	AGC MAVG - calculated
8/24/2013 6:44	0:02	KWP II	0.045	12.852	AGC MAVG - calculated
8/24/2013 6:48	0:01	KWP II	0.000	10.184	AGC MAVG - calculated
8/24/2013 11:29	0:08	KWP II	0.166	17.707	AGC MAVG - calculated
8/24/2013 11:38	1:08	KWP II	4.782	20.464	AGC MAVG - calculated
8/24/2013 12:48	0:03	KWP II	0.055	19.723	AGC MAVG - calculated
8/24/2013 12:55	0:05	KWP II	0.133	19.789	AGC MAVG - calculated
8/24/2013 12:58	0:04	KWP II	0.092	19.751	AGC MAVG - calculated
8/24/2013 13:03	0:02	KWP II	0.009	18.904	AGC MAVG - calculated
8/24/2013 13:06	0:02	KWP II	0.008	19.407	AGC MAVG - calculated
8/24/2013 13:11	0:01	KWP II	0.007	17.158	AGC MAVG - calculated
8/24/2013 13:18	0:03	KWP II	0.065	18.331	AGC MAVG - calculated
8/24/2013 13:28	0:01	KWP II	0.001	18.811	AGC MAVG - calculated
8/24/2013 13:30	0:01	KWP II	0.011	18.581	AGC MAVG - calculated
8/24/2013 13:36	0:01	KWP II	0.008	17.088	AGC MAVG - calculated
8/24/2013 13:41	0:01	KWP II	0.008	18.240	AGC MAVG - calculated
8/24/2013 13:48	0:06	KWP II	0.115	19.178	AGC MAVG - calculated
8/24/2013 13:55	0:02	KWP II	0.020	18.607	AGC MAVG - calculated
8/24/2013 14:04	0:02	KWP II	0.024	18.187	AGC MAVG - calculated
8/24/2013 14:07	0:01	KWP II	0.003	17.737	AGC MAVG - calculated
8/24/2013 14:17	0:10	KWP II	0.245	17.242	AGC MAVG - calculated

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Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
8/1/2013 6:53	1:15	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 8:09	0:25	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 8:35	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 8:43	0:54	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 9:46	0:12	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 10:48	0:08	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 11:03	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 11:05	0:08	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 11:21	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 11:26	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 11:44	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 11:50	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 11:56	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 11:59	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 12:03	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 12:09	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 12:12	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 12:27	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 12:34	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 13:49	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 13:54	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 14:01	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 14:03	0:07	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 14:11	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 14:17	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 14:21	0:13	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 16:20	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 16:26	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/1/2013 17:03	1:11	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 7:04	1:33	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 8:40	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 8:42	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 9:04	0:27	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 9:32	0:16	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 9:49	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 9:55	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 10:01	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 10:03	0:08	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 10:16	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 10:22	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 10:25	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 10:31	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices

Maui Electric Company - Lanai Curtailment Report August 2013

Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
8/2/2013 10:35	0:14	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 10:50	0:11	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 11:06	0:13	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 11:20	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 11:37	0:09	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 11:50	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 11:56	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 12:32	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 13:32	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 13:48	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 14:30	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 14:33	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 14:44	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 15:42	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 17:10	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 17:17	0:11	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 17:29	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 17:34	0:07	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 17:49	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/2/2013 18:06	0:08	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/3/2013 7:39	0:46	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/3/2013 8:54	0:57	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/3/2013 9:54	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/3/2013 11:41	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/3/2013 11:59	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/3/2013 12:07	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/3/2013 12:16	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/3/2013 12:27	0:14	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/3/2013 15:09	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/3/2013 15:41	0:28	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/3/2013 18:10	1:52	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 7:04	0:41	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 7:46	0:52	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 9:00	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 9:11	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 9:17	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 9:23	0:13	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 9:41	0:07	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 9:49	0:08	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 9:58	0:10	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 10:12	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 10:14	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices

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Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
8/4/2013 10:30	0:01	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 10:32	0:01	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 10:34	0:04	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 10:45	0:08	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 11:12	0:05	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 11:23	0:01	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 11:28	0:07	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 11:36	0:03	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 11:45	0:01	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 11:48	0:02	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 11:52	0:01	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 11:57	0:01	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 12:00	0:04	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 12:06	0:06	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 12:56	0:04	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 13:04	0:02	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 13:17	0:01	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 13:19	0:03	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 13:31	0:01	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 13:35	0:01	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 13:40	0:04	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 13:45	0:03	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 13:49	0:04	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 13:58	0:03	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 14:08	0:06	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 14:18	0:04	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 15:15	0:04	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 18:27	0:01	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 16:35	0:06	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 16:42	0:01	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 16:44	0:10	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/4/2013 16:55	1:26	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 8:38	0:03	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 10:11	0:03	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 10:31	0:02	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 10:35	0:05	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 10:50	0:03	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 11:18	0:02	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 11:40	0:01	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 11:53	0:02	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 11:56	0:04	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 12:03	0:01	LSR-La Oia PV	Data not available	Data not available	Good Engineering and Operating Practices

Mau Electric Company - Lanai Curtailment Report August 2013

Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
8/5/2013 12:07	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 13:08	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 13:13	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 13:33	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 14:38	0:09	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 15:13	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 15:18	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 16:40	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 16:50	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 16:55	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 17:06	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 18:06	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/5/2013 18:10	0:20	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 6:50	0:30	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 7:21	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 7:27	0:42	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 9:28	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 9:41	0:10	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 9:52	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 10:12	0:23	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 10:42	0:28	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 11:11	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 11:36	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 11:41	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 11:44	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 11:52	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 13:55	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 13:58	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 14:04	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 14:08	0:07	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 14:20	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 14:30	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 14:40	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 14:46	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 14:53	0:28	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 15:22	0:08	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 15:33	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 15:35	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 15:58	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 16:00	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 16:04	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 16:08	0:14	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices

Maui Electric Company - Lanai Curtailment Report August 2013

Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
8/6/2013 16:27	0:12	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 16:40	0:21	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/6/2013 17:02	0:56	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 7:13	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 7:16	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 7:20	0:07	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 7:29	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 7:35	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 7:41	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 7:48	0:24	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 8:13	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 8:17	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 8:23	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 8:56	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 9:00	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 9:07	0:07	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 9:22	0:24	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 9:49	0:11	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 10:01	0:11	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 10:29	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 10:36	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 10:38	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 10:46	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 10:51	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 10:55	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 11:14	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 11:22	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 11:30	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 11:35	0:08	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 11:47	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 11:58	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 12:20	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 12:36	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 12:38	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 12:40	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 12:44	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 12:54	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 12:59	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 13:41	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 16:07	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 16:20	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 16:24	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices

Maui Electric Company - Lanai Curtailment Report August 2013

Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
8/7/2013 16:30	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 16:35	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 16:39	0:09	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 16:49	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 16:51	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 16:57	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/7/2013 17:00	0:28	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 7:20	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 7:54	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 8:51	0:48	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 9:40	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 9:44	0:38	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 10:24	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 10:27	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 10:32	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 10:37	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 10:43	0:12	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 10:59	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 11:07	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 11:12	0:08	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 11:29	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 11:34	0:12	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 11:55	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 12:02	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 12:11	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 12:17	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 12:20	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 12:22	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 12:31	0:09	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 12:43	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 13:09	0:09	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 13:28	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 13:38	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 15:04	0:10	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 15:59	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 16:05	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 16:10	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 16:38	0:07	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 16:56	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 17:31	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/8/2013 17:41	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 6:53	0:10	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices

Maui Electric Company - Lanai Curtailment Report August 2013

Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
8/9/2013 7:22	1:31	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 8:56	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 8:58	1:08	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 10:07	0:56	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 11:10	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 11:21	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 11:23	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 11:33	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 11:38	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 11:40	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 11:42	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 11:46	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 11:57	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 11:59	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 12:01	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 12:07	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 12:09	0:52	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 13:02	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 13:11	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 13:15	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 13:18	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 13:30	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 13:52	0:07	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 14:05	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 14:12	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 14:24	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 14:31	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 14:36	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 14:39	0:45	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 15:25	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 15:48	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 16:07	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 16:21	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 16:33	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 17:33	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/9/2013 18:02	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 10:01	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 10:38	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 10:46	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 10:54	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 11:00	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 11:06	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices

Maui Electric Company - Lanai Curtailment Report August 2013

Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
8/10/2013 11:22	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 11:28	0:21	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 11:55	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 11:57	0:08	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 12:13	0:10	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 12:25	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 13:36	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 13:59	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 14:03	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 15:43	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 15:49	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 15:54	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 16:09	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/10/2013 16:17	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 6:42	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 6:57	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 7:42	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 7:52	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 8:08	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 8:14	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 8:20	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 10:09	0:25	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 11:04	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 11:14	0:28	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 11:44	0:08	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 11:54	0:32	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 12:27	0:07	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 12:35	0:36	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 13:12	0:07	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 13:21	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 14:24	0:15	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 14:42	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 14:50	0:09	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 15:08	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 15:20	0:43	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 16:04	0:10	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/11/2013 16:15	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/12/2013 6:57	1:24	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/12/2013 8:22	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/12/2013 8:25	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/12/2013 9:14	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/12/2013 9:17	0:16	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices

Maui Electric Company - Lanai Curtailment Report August 2013

Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
8/12/2013 9:34	0:07	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/12/2013 10:46	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/12/2013 11:50	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/12/2013 13:19	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/12/2013 13:27	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/12/2013 15:04	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/12/2013 15:06	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/12/2013 15:11	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/12/2013 15:14	2:19	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/12/2013 17:42	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 7:04	0:21	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 7:28	0:12	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 7:41	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 7:43	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 7:48	0:16	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 8:05	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 8:13	0:09	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 8:23	0:56	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 9:37	0:33	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 10:12	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 10:14	0:07	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 10:28	0:07	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 10:37	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 10:41	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 10:44	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 11:05	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 11:18	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 11:22	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 12:05	0:25	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 12:31	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 12:44	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 12:59	0:07	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 13:09	0:23	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 13:35	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 13:39	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 14:04	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 15:23	0:58	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 16:23	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 16:29	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 16:44	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 16:51	0:07	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/13/2013 17:00	0:23	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices

Maui Electric Company - Lanai Curtailment Report August 2013

Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
8/13/2013 17:26	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 6:56	1:19	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 8:19	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 8:22	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 8:25	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 8:29	0:23	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 8:53	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 8:56	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 9:01	1:31	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 10:34	0:11	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 10:48	0:07	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 10:56	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 11:03	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 11:10	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 11:16	0:17	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 11:35	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 11:42	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 11:44	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 11:49	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 11:57	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 12:11	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 12:16	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 12:26	0:30	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 12:57	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 13:02	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 13:24	0:03	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 13:36	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 13:43	0:09	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 13:54	0:28	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 14:27	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 14:44	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 14:59	0:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 15:03	0:06	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 15:27	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 15:33	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 15:47	0:04	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 15:53	0:49	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/14/2013 16:45	1:20	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/15/2013 7:08	0:49	LSR-La Ola PV	Data not available	Data not available	Testing
8/15/2013 7:56	0:01	LSR-La Ola PV	Data not available	Data not available	Testing
8/15/2013 8:16	0:27	LSR-La Ola PV	Data not available	Data not available	Testing
8/15/2013 9:14	0:05	LSR-La Ola PV	Data not available	Data not available	Testing

Maui Electric Company - Lanai Curtailment Report August 2013

Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
8/15/2013 10:09	0:01	LSR-La Ola PV	Data not available	Data not available	Testing
8/15/2013 10:15	0:19	LSR-La Ola PV	Data not available	Data not available	Testing
8/15/2013 10:38	0:07	LSR-La Ola PV	Data not available	Data not available	Testing
8/15/2013 10:46	0:27	LSR-La Ola PV	Data not available	Data not available	Testing
8/15/2013 11:18	0:03	LSR-La Ola PV	Data not available	Data not available	Testing
8/15/2013 11:22	0:05	LSR-La Ola PV	Data not available	Data not available	Testing
8/15/2013 11:44	0:05	LSR-La Ola PV	Data not available	Data not available	Testing
8/15/2013 11:54	0:03	LSR-La Ola PV	Data not available	Data not available	Testing
8/15/2013 11:58	0:02	LSR-La Ola PV	Data not available	Data not available	Testing
8/15/2013 12:16	0:02	LSR-La Ola PV	Data not available	Data not available	Testing
8/15/2013 12:50	0:46	LSR-La Ola PV	Data not available	Data not available	Testing
8/15/2013 13:44	2:29	LSR-La Ola PV	Data not available	Data not available	Testing
8/15/2013 16:36	0:19	LSR-La Ola PV	Data not available	Data not available	Testing
8/16/2013 7:20	0:21	LSR-La Ola PV	Data not available	Data not available	Testing
8/16/2013 7:42	0:07	LSR-La Ola PV	Data not available	Data not available	Testing
8/16/2013 8:06	1:59	LSR-La Ola PV	Data not available	Data not available	Testing
8/16/2013 10:07	0:03	LSR-La Ola PV	Data not available	Data not available	Testing
8/16/2013 10:12	0:49	LSR-La Ola PV	Data not available	Data not available	Testing
8/16/2013 11:02	0:04	LSR-La Ola PV	Data not available	Data not available	Testing
8/18/2013 11:07	0:23	LSR-La Ola PV	Data not available	Data not available	Testing
8/16/2013 11:31	2:50	LSR-La Ola PV	Data not available	Data not available	Testing
8/16/2013 14:27	3:40	LSR-La Ola PV	Data not available	Data not available	Testing
8/17/2013 6:54	3:02	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/17/2013 9:57	0:05	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/17/2013 14:52	0:01	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/17/2013 14:54	0:40	LSR-La Ola PV	Data not available	Data not available	Good Engineering and Operating Practices
8/19/2013 8:00	0:44	LSR-La Ola PV	Data not available	Data not available	Testing
8/19/2013 8:45	0:32	LSR-La Ola PV	Data not available	Data not available	Testing
8/19/2013 9:18	0:06	LSR-La Ola PV	Data not available	Data not available	Testing
8/19/2013 9:42	0:01	LSR-La Ola PV	Data not available	Data not available	Testing
8/19/2013 9:48	0:05	LSR-La Ola PV	Data not available	Data not available	Testing
8/19/2013 10:27	0:03	LSR-La Ola PV	Data not available	Data not available	Testing
8/19/2013 10:39	0:04	LSR-La Ola PV	Data not available	Data not available	Testing
8/19/2013 10:44	2:58	LSR-La Ola PV	Data not available	Data not available	Testing
8/19/2013 13:43	0:06	LSR-La Ola PV	Data not available	Data not available	Testing
8/19/2013 13:52	2:18	LSR-La Ola PV	Data not available	Data not available	Testing
8/19/2013 16:16	0:05	LSR-La Ola PV	Data not available	Data not available	Testing
8/19/2013 16:23	0:07	LSR-La Ola PV	Data not available	Data not available	Testing
8/19/2013 16:32	0:01	LSR-La Ola PV	Data not available	Data not available	Testing
8/19/2013 16:34	1:14	LSR-La Ola PV	Data not available	Data not available	Testing
8/20/2013 7:30	10:55	LSR-La Ola PV	Data not available	Data not available	Testing
8/20/2013 18:28	0:01	LSR-La Ola PV	Data not available	Data not available	Testing

Maui Electric Company - Lanai Curtailment Report August 2013

Start Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
8/21/2013 7:10	0:34	LSR-La Ola PV	Data not available	Data not available	Testing
8/21/2013 7:58	0:04	LSR-La Ola PV	Data not available	Data not available	Testing
8/21/2013 8:04	0:02	LSR-La Ola PV	Data not available	Data not available	Testing
8/21/2013 8:07	4:23	LSR-La Ola PV	Data not available	Data not available	Testing
8/21/2013 12:32	5:49	LSR-La Ola PV	Data not available	Data not available	Testing
8/21/2013 18:22	0:02	LSR-La Ola PV	Data not available	Data not available	Testing
8/22/2013 8:04	2:15	LSR-La Ola PV	Data not available	Data not available	Testing
8/22/2013 10:20	0:02	LSR-La Ola PV	Data not available	Data not available	Testing
8/22/2013 10:26	7:54	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 7:08	0:07	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 7:16	0:02	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 7:19	0:19	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 7:42	0:15	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 7:59	0:45	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 8:45	0:38	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 9:28	0:02	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 9:31	0:39	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 10:12	0:01	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 10:14	0:01	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 10:18	0:08	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 10:28	0:10	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 10:50	0:01	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 11:09	1:01	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 12:11	0:06	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 12:19	0:08	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 12:32	0:03	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 12:38	0:02	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 12:48	0:03	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 12:52	0:01	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 12:54	0:02	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 12:57	0:03	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 13:06	0:01	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 13:13	0:02	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 13:22	0:55	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 14:20	0:02	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 14:26	0:05	LSR-La Ola PV	Data not available	Data not available	Testing
8/23/2013 15:06	3:21	LSR-La Ola PV	Data not available	Data not available	Testing
Notes:					
On June 27, 2012, MECO notified LSR that although LSR has not operated in compliance with the revised ramp rate of 360 kW/minute, MECO would conditionally allow LSR to operate at the allowed capacity of 1.2 MW while the MECO-Lanai Diesel Operator was in the control room.					
LSR possible output data is not available. Therefore, Maui Electric Company 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					

Hawaii Electric Light Company Curtailment Report August 2013

Start Date/Time	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released	Reason for Curtailment
08/13/13 18:03	5.2 MW	08/15/13 05:09	0.0 MW	HRD curtailed - scheduled outage to perform upgrades at Waimea Switching Station. On 8/14/13 7:42 to 18:30, HRD curtailed to limit of 5MVA spare transformer.