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PUBLIC UTILITIES COMMISSION

November 27, 2013

Dean K. Matsuura
Manager
Regulatory Affairs

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

Dear Commissioners:

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

Pursuant to Ordering Paragraph 3 of the Commission's Order No. 30371, filed on May 4, 2012, in the above subject proceeding, enclosed as Exhibit A is the Hawaiian Electric Companies'[1] monthly report for October 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., Hawai'i Electric Light Company, Inc., and Maui Electric Company, Limited are collectively referred to as the "Hawaiian Electric Companies" or "Companies".

SERVICE LIST
(Docket No. 2011-0206)

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

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

The following provides information with respect to items 1a) through 1b) – (all statements are current as of the month ending October 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 Hawai'i Electric Light based on two-second data are provided in Attachment 1, and the enclosed Excel files. Refer to the electronic files for the individual data points because the information is voluminous and does not translate well to a hard copy.

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

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

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

The following provides information with respect to items 2a) through 2c) – (all statements are current as of the month ending October 31, 2013):

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

Hawaiian Electric contingency reserve activations are provided in Attachment 3.
Maui Electric and Hawai'i Electric Light do not operate with contingency reserve requirements.

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 October.

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 Hawai'i 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.

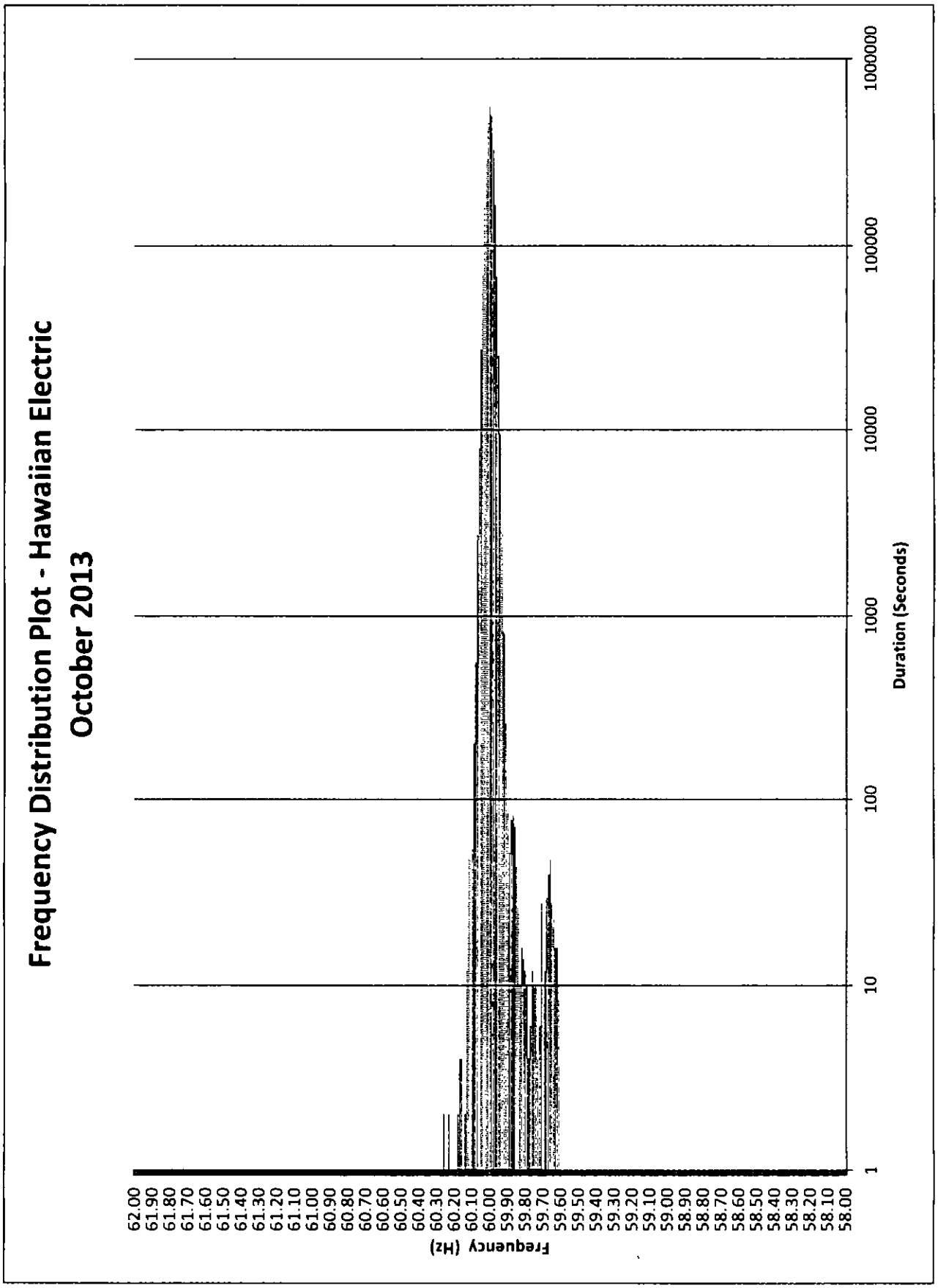
The following provides information with respect to items 3a) through 3b) – (all statements are current as of the month ending October 31, 2013):

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:

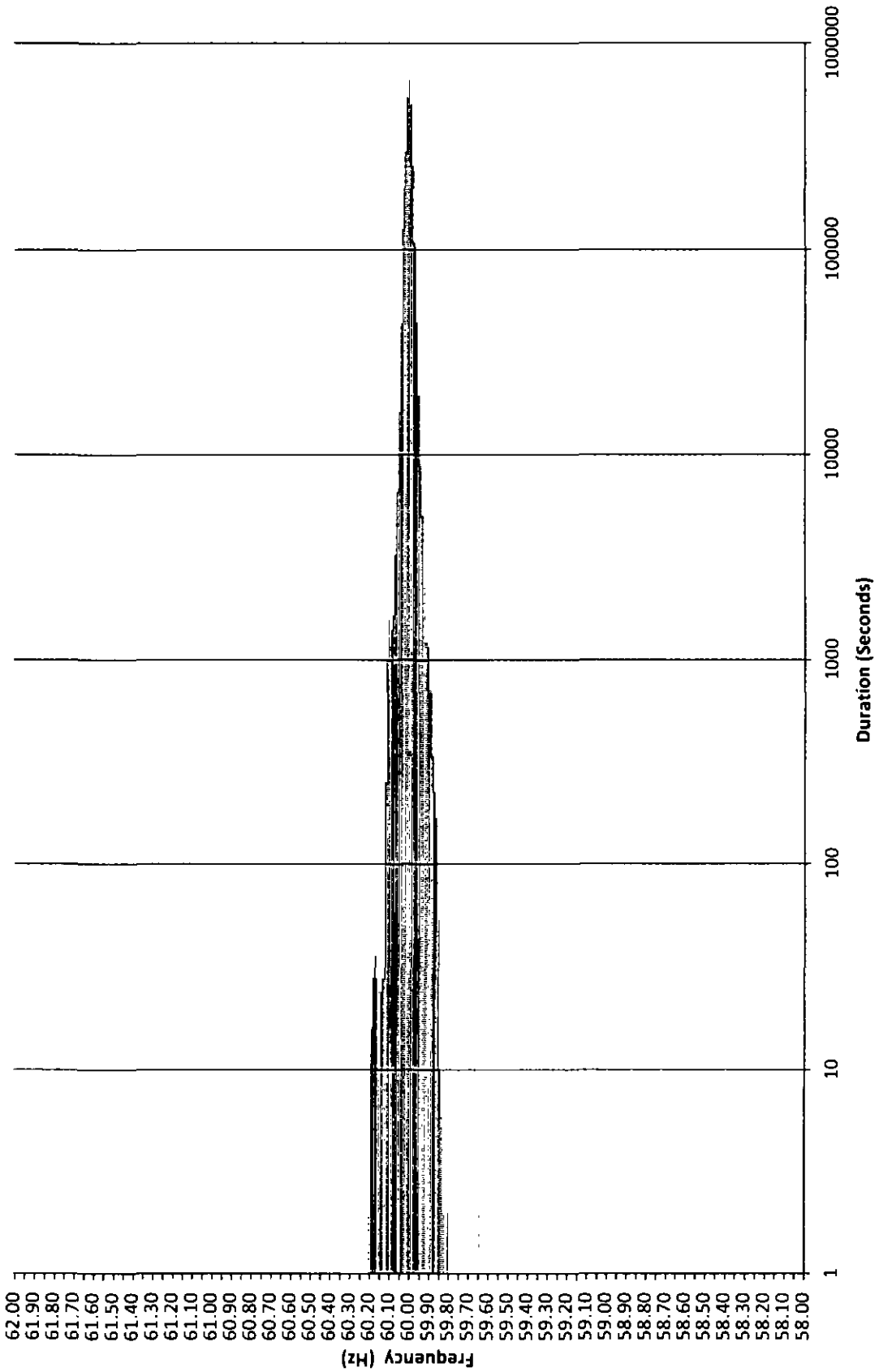
The tabulation of each curtailment event for each resource is provided in Attachment 6.

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

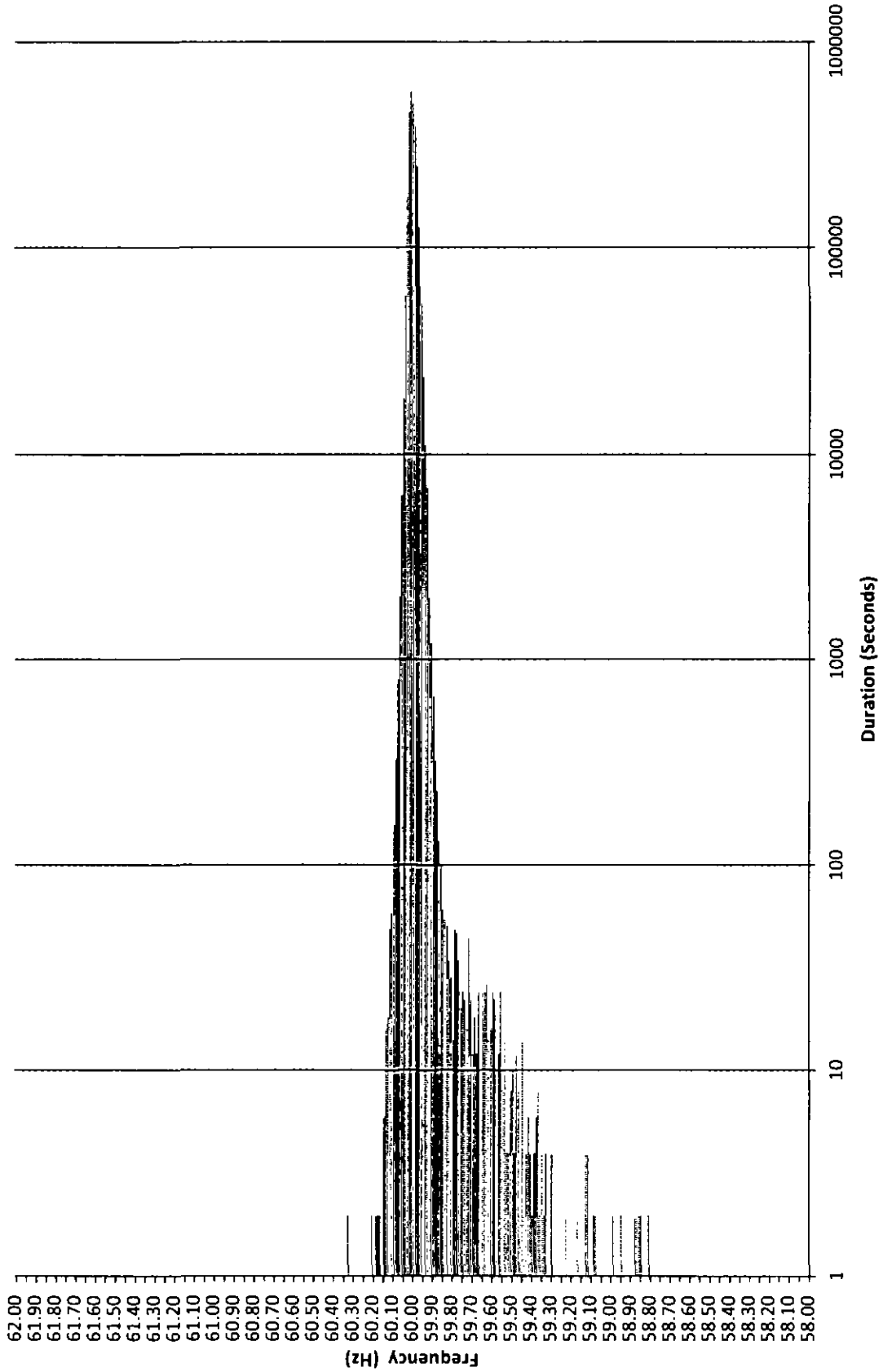
Curtailed MWH from non-dispatchable resources are difficult to determine due to the variability of the resource during curtailment periods. In some cases, the curtailed MWH estimates were provided by the IPPs under curtailment. Hawai'i Electric Light is not providing an estimate of curtailed MWH, as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


Frequency Distribution Plot - Hawaiian Electric
October 2013
Frequency (Hz)
62.00
61.90
61.80
61.70
61.60
61.50
61.40
61.30
61.20
61.10
61.00
60.90
60.80
60.70
60.60
60.50
60.40
60.30
60.20
60.10
60.00
59.90
59.80
59.70
59.60
59.50
59.40
59.30
59.20
59.10
59.00
58.90
58.80
58.70
58.60
58.50
58.40
58.30
58.20
58.10
58.00
1
10
100
1000
10000
100000
1000000
Duration (Seconds)

Maui Electric Frequency Distribution Plot - Maui
October 2013



Frequency Distribution Plot - Hawai'i Electric Light
October 2013



Hawaiian Electric Frequency Excursion Statistics October 2013		
Data Rounded to the nearest	<59.95 Hz	>60.05 Hz
Number of Excursions	916	862
Maximum Duration (sec)	516	788
Maximum Deviation (Hz)	59.607	60.258
Total Duration of Excursions (sec)	23594	21206

Maui Electric Frequency Excursion Statistics October 2013		
	<59.95 Hz	>60.05 Hz
Number of Excursions	2938	2023
Maximum Duration (sec)	690	598
Maximum Deviation (Hz)	59.635	60.196
Total Duration of Excursions (sec)	28342	20820

Hawai'i Electric Light Frequency Excursion Statistics October 2013		
	<59.95 Hz	>60.05 Hz
Number of Excursions	9028	1052
Maximum Duration (sec)	284	74
Maximum Deviation (Hz)	58.797	60.315
Total Duration of Excursions (sec)	69284	5778

HAWAIIAN ELECTRIC COMPANY, INC.
CONTINGENCY RESERVE ACTIVATION EVENTS
OCTOBER 2013

Event #	Date & Time	Frequency (Hz)			Spinning Reserve Shortfall (MW)	Duration (HH:MM)	Description
		Prior to Event	Nadir	Trigger			
1	10/07/13 08:25	59 954	59.796	N/A	4.00	0:19	W8 tripped offline while generating ~24 MW. W10 called online for spinning reserve.
2	10/09/13 16:56	60.001	59.996	N/A	12.00	0:30	K4 blocked at 41 MW. CIP called online for spinning reserve.
3	10/17/13 13:07	59 999	59.972	N/A	2.00	0:18	HPOWER Boiler #2 tripped offline and output decreased to ~21 MW. W9 called online for spinning reserve.
4	10/22/13 08:02	59.794	59.612	N/A	5.00	0 02	AES output decreased to ~66 MW. W10 and CIP called online for spinning reserve AES increased output and recovered spinning reserve prior to W10 and CIP online.
5	10/29/13 10:31	59.983	59.790	N/A	14.00	0:17	K2 blocked at 45 MW. W9 called online for spinning reserve

MAUI ELECTRIC COMPANY, INC.
UNDERFREQUENCY LOAD SHEDDING EVENTS
October 2013

				Frequency (Hz)					
Event #	IR #	Island	Date & Time	Prior to Event	Nadir	Levels UFLS Occurred	Load Shed (MW)	Duration (HH:MM)	Description
1	666	Moloka'i	10/28/2013 9:58 AM	59.98	56.66	57.50	1.28	05:07	A frequency depression of 56.66 Hz occurred on Moloka'i due to distribution line fault caused by a vehicle accident downing a pole.

HAWAI'I ELECTRIC LIGHT COMPANY, INC.
UNDERFREQUENCY LOAD SHEDDING EVENTS
OCTOBER 2013

Event #	Date	Time	Frequency (Hz) Prior to Event	Frequency (Hz) Nadir	Frequency (Hz) Level UFLS Occurred	Load Shed (MW)	Duration (HH:MM)	Description
1	10/24/2013	10:59 AM	60.00	58.73	58.80	11.60	0 14	HELCO Puna Plant generator tripped off line due to a loss of lube oil
2	10/26/2013	1:28 PM	59.40	58.70	58 80	20.93	0.15	PGV tripped offline due to possiblity of poor steam quality

HAWAIIAN ELECTRIC COMPANY, INC.
DEMAND RESPONSE EVENTS
OCTOBER 2013

Event #	Date & Time	Frequency (Hz)			Load Shed (MW)	Duration (HH:MM)	Description
		Prior to Event	Nadir	Trigger			
1	10/22/13 08:06	59.794	59.612	59.70	6.00	0:05	AES output decreased to ~66 MW. W10 and CIP called online for spinning reserve.

Hawaiian Electric Curtailment Report October 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
10/09/13 04 36	0 0	4 40	10/09/13 04 59	0	*	KWF	Pole upgrades on Koolau Kahuku 46kV line and pole installation at Waihee substation
10/09/13 04 37	0 0	8 00	10/09/13 05 00	0	*	Makai	Pole upgrades on Koolau Kahuku 46kV line and pole installation at Waihee substation
10/09/13 16 08	0 0	4 70	10/09/13 16:25	0	*	KWF	Pole upgrades on Koolau Kahuku 46kV line and pole installation at Waihee substation
10/09/13 16 09	0 0	4 50	10/09/13 16 26	0	*	Makai	Pole upgrades on Koolau Kahuku 46kV line and pole installation at Waihee substation
10/10/13 05 01	0 0	2.50	10/10/13 05 36	0	*	KWF	Pole replacement and upgrades on Koolau Kahuku 46kV line
10/10/13 05 02	0 0	0 00	10/10/13 05 36	0	*	Makai	Pole replacement and upgrades on Koolau-Kahuku 46kV line
10/10/13 16 57	0 0	7 00	10/10/13 18 06	0	*	Makai	Pole replacement and upgrades on Koolau Kahuku 46kV line
10/10/13 16 58	0 0	3 00	10/10/13 18 06	0	*	KWF	Pole replacement and upgrades on Koolau Kahuku 46kV line
10/15/13 06 38	0 0	0 00	10/15/13 07 14	0	*	Makai	Pole replacement on Koolau Kahuku 46kV line
10/15/13 06 39	0 0	1 20	10/15/13 07 13	0	*	KWF	Pole replacement on Koolau Kahuku 46kV line
10/15/13 15 44	0 0	6 00	10/15/13 16 23	0	*	Makai	Pole replacement on Koolau Kahuku 46kV line
10/15/13 15 44	0 0	4 00	10/15/13 16 23	0	*	KWF	Pole replacement on Koolau Kahuku 46kV line
10/17/13 09 15	0 0	0.90	10/17/13 09 57	0	*	KWF	Pole replacement and upgrades on Koolau Kahuku 46kV line
10/17/13 09 15	0 0	0 10	10/17/13 09 57	0	*	Makai	Pole replacement and upgrades on Koolau-Kahuku 46kV line
10/17/13 15 04	0 0	0 00	10/17/13 16 03	0	*	KWF	Pole replacement and upgrades on Koolau Kahuku 46kV line
10/17/13 15 03	0 0	0.00	10/17/13 16:02	0	*	Makai	Pole replacement and upgrades on Koolau-Kahuku 46kV line
10/23/13 05 15	0 0	4.00	10/23/13 05 51	0	*	KWF	Pole replacement on Koolau Kahuku 46kV line
10/23/13 05 15	0 0	0 00	10/23/13 05 51	0	*	Makai	Pole replacement on Koolau Kahuku 46kV line
10/23/13 15 41	0 0	2.50	10/23/13 16.14	0	*	KWF	Pole replacement on Koolau-Kahuku 46kV line
10/23/13 15:41	0.0	7 50	10/23/13 16 14	0	*	Makai	Pole replacement on Koolau-Kahuku 46kV line
10/24/13 07.22	0 0	1.00	10/24/13 08 49	0	*	KWF	Pole replacement on Koolau Kahuku 46kV line
10/24/13 07 22	0 0	0 00	10/24/13 08 09	0	*	Makai	Pole replacement on Koolau-Kahuku 46kV line
10/24/13 16.04	0 0	3 90	10/24/13 16 35	0	*	KWF	Pole replacement on Koolau-Kahuku 46kV line
10/24/13 16 04	0 0	6.10	10/24/13 16 35	0	*	Makai	Pole replacement on Koolau Kahuku 46kV line
10/29/13 05 42	0.0	4 00	10/29/13 06 21	0	*	KWF	Pole upgrades on Koolau Kahuku 46kV line
10/29/13 05 42	0 0	0 00	10/29/13 06 22	0	*	Makai	Pole upgrades on Koolau-Kahuku 46kV line
10/29/13 15.53	0 0	3 10	10/29/13 16 33	0	*	KWF	Pole upgrades on Koolau Kahuku 46kV line
10/29/13 15.54	0 0	3 60	10/29/13 16 34	0	*	Makai	Pole upgrades on Koolau Kahuku 46kV line
10/30/13 05 32	0 0	4 60	10/30/13 06 19	0	*	KWF	Pole replacement on Koolau-Kahuku 46kV line
10/30/13 05 32	0 0	0 10	10/30/13 06 19	0	*	Makai	Pole replacement on Koolau Kahuku 46kV line
10/30/13 15 35	0 0	2 00	10/30/13 16 27	0	*	KWF	Pole replacement on Koolau-Kahuku 46kV line
10/30/13 15 36	0 0	5 60	10/30/13 16 17	0	*	Makai	Pole replacement on Koolau Kahuku 46kV line
10/31/13 05 30	0 0	1 10	10/31/13 06 17	0	*	KWF	Pole replacement on Koolau-Kahuku 46kV line
10/31/13 05 31	0 0	0 10	10/31/13 06 17	0	*	Makai	Pole replacement on Koolau-Kahuku 46kV line
10/31/13 15 59	0 0	4 70	10/31/13 16 28	0	*	KWF	Pole replacement on Koolau Kahuku 46kV line
10/31/13 15 58	0 0	4 50	10/31/13 16 28	0	*	Makai	Pole replacement on Koolau Kahuku 46kV line

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

Maui Electric

RSWG Maui Curtailment Report October 2013

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
10/1/2013 1:01	0:04	KWPII	0.031	3.309	AGC MAVG - calculated
10/1/2013 1:18	0:07	KWPII	0.156	4.735	AGC MAVG - calculated
10/1/2013 1:29	0:01	KWPII	0.005	4.321	AGC MAVG - calculated
10/1/2013 1:39	0:01	KWPII	0.008	6.560	AGC MAVG - calculated
10/1/2013 1:44	0:02	KWPII	0.025	7.093	AGC MAVG - calculated
10/1/2013 1:47	0:01	KWPII	0.004	6.501	AGC MAVG - calculated
10/1/2013 1:49	0:01	KWPII	0.018	6.157	AGC MAVG - calculated
10/1/2013 12:05	0:01	KWP	0.002	0.112	AGC MAVG - calculated
10/2/2013 11:25	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/3/2013 11:50	0:02	KWP	0.003	0.160	AGC MAVG - calculated
10/3/2013 13:15	0:01	KWP	0.001	0.037	AGC MAVG - calculated
10/3/2013 13:29	0:01	KWP	0.001	0.032	AGC MAVG - calculated
10/3/2013 14:14	0:04	KWPII	0.040	0.946	AGC MAVG - calculated
10/3/2013 14:14	0:03	AWE	0.001	20.700	AGC MAVG - calculated
10/4/2013 1:28	0:05	KWPII	0.069	4.248	AGC MAVG - calculated
10/4/2013 5:26	0:01	KWP	0.001	0.032	AGC MAVG - calculated
10/4/2013 8:00	0:24	KWPII	1.811	15.085	AGC MAVG - calculated
10/4/2013 8:50	0:07	KWPII	0.268	14.257	AGC MAVG - calculated
10/4/2013 8:59	0:03	KWPII	0.050	17.031	AGC MAVG - calculated
10/4/2013 9:03	0:15	KWPII	1.054	16.605	AGC MAVG - calculated
10/4/2013 9:19	0:04	KWPII	0.183	14.981	AGC MAVG - calculated
10/4/2013 9:24	0:01	KWPII	0.025	13.217	AGC MAVG - calculated
10/4/2013 9:46	0:01	KWPII	0.006	12.101	AGC MAVG - calculated
10/4/2013 9:49	0:02	KWPII	0.070	12.744	AGC MAVG - calculated
10/4/2013 9:52	0:03	KWPII	0.132	13.358	AGC MAVG - calculated
10/4/2013 9:56	0:05	KWPII	0.361	13.723	AGC MAVG - calculated
10/4/2013 10:15	0:04	KWPII	0.081	12.186	AGC MAVG - calculated
10/4/2013 10:23	0:03	KWPII	0.075	13.330	AGC MAVG - calculated
10/4/2013 10:27	0:04	KWPII	0.104	11.887	AGC MAVG - calculated
10/4/2013 10:36	0:04	KWPII	0.220	14.159	AGC MAVG - calculated
10/4/2013 10:58	0:01	KWPII	0.004	9.760	AGC MAVG - calculated
10/4/2013 11:00	0:02	KWPII	0.073	11.772	AGC MAVG - calculated
10/4/2013 11:04	0:01	KWPII	0.017	11.168	AGC MAVG - calculated
10/4/2013 11:16	0:01	KWPII	0.007	10.429	AGC MAVG - calculated
10/4/2013 11:23	0:01	KWPII	0.007	9.900	AGC MAVG - calculated
10/4/2013 11:26	0:01	KWPII	0.013	10.206	AGC MAVG - calculated
10/4/2013 12:51	0:06	KWPII	0.163	14.441	AGC MAVG - calculated
10/4/2013 13:00	0:02	KWPII	0.015	13.437	AGC MAVG - calculated
10/4/2013 13:04	0:02	KWPII	0.021	13.441	AGC MAVG - calculated
10/4/2013 14:41	0:01	KWPII	0.010	14.828	AGC MAVG - calculated
10/4/2013 14:45	0:02	KWPII	0.080	16.854	AGC MAVG - calculated
10/4/2013 14:48	0:03	KWPII	0.123	18.018	AGC MAVG - calculated
10/4/2013 14:52	0:01	KWPII	0.023	18.886	AGC MAVG - calculated
10/4/2013 14:54	0:04	KWPII	0.099	17.839	AGC MAVG - calculated
10/4/2013 19:55	2:50	KWPII	31.421	20.700	AGC MAVG - entered - Maintaining Regulating Reserves and AGC MAVG - calculated
10/4/2013 22:46	0:01	KWPII	0.051	20.270	AGC MAVG - calculated
10/4/2013 22:50	0:58	KWPII	7.779	20.687	AGC MAVG - calculated
10/5/2013 0:20	0:48	KWPII	5.473	18.863	AGC MAVG - calculated, AGC MAVG - entered - Excess Energy, and AGC MAVG - calculated
10/5/2013 0:46	0:01	AWE	0.000	14.300	AGC MAVG - entered - Excess Energy
10/5/2013 0:57	0:01	AWE	0.000	15.000	AGC MAVG - calculated
10/5/2013 1:09	0:03	KWPII	0.163	13.300	AGC MAVG - calculated
10/5/2013 1:13	0:35	KWPII	5.961	19.586	AGC MAVG - calculated, AGC MAVG - entered - Excess Energy, and AGC MAVG - calculated
10/5/2013 1:36	0:01	AWE	0.001	15.400	AGC MAVG - entered - Excess Energy
10/5/2013 1:41	0:01	AWE	0.000	16.700	AGC MAVG - entered - Excess Energy
10/5/2013 1:50	1:14	KWPII	16.244	19.589	AGC MAVG - calculated, AGC MAVG - entered - Excess Energy, AGC MAVG - calculated and AGC MAVG - entered - Excess Energy
10/5/2013 2:44	0:04	AWE	0.124	13.000	AGC MAVG - entered - Excess Energy and AGC MAVG - calculated
10/5/2013 2:58	0:01	AWE	0.001	8.300	AGC MAVG - calculated
10/5/2013 3:00	0:04	AWE	0.182	11.000	AGC MAVG - calculated and AGC MAVG - entered - Excess Energy
10/5/2013 3:05	0:33	KWPII	8.476	17.370	AGC MAVG - entered - Excess Energy and AGC MAVG - calculated
10/5/2013 3:06	0:28	AWE	2.250	12.700	AGC MAVG - entered - Excess Energy and AGC MAVG - calculated
10/5/2013 3:39	0:33	KWPII	7.168	17.746	AGC MAVG - calculated
10/5/2013 3:43	0:01	AWE	0.000	13.900	AGC MAVG - calculated
10/5/2013 3:49	0:01	AWE	0.001	15.600	AGC MAVG - calculated
10/5/2013 3:56	0:01	AWE	0.000	14.900	AGC MAVG - calculated
10/5/2013 4:14	1:32	KWPII	20.345	18.812	AGC MAVG - calculated
10/5/2013 4:27	0:01	AWE	0.001	14.400	AGC MAVG - calculated
10/5/2013 4:32	0:01	AWE	0.000	11.000	AGC MAVG - calculated
10/5/2013 5:26	0:01	AWE	0.000	17.000	AGC MAVG - calculated
10/5/2013 5:32	0:02	AWE	0.013	14.500	AGC MAVG - calculated
10/5/2013 5:47	0:50	KWPII	6.499	18.691	AGC MAVG - calculated
10/5/2013 6:40	0:21	KWPII	3.244	17.440	AGC MAVG - calculated
10/5/2013 7:02	0:28	KWPII	2.823	18.883	AGC MAVG - calculated
10/5/2013 7:33	0:46	KWPII	3.213	17.374	AGC MAVG - calculated
10/5/2013 8:23	0:01	KWPII	0.018	10.375	AGC MAVG - calculated
10/5/2013 8:55	6:31	KWPII	73.334	19.211	AGC MAVG - calculated
10/5/2013 12:17	0:01	AWE	0.001	19.100	AGC MAVG - calculated
10/5/2013 12:20	0:02	AWE	0.000	18.300	AGC MAVG - calculated
10/5/2013 12:42	0:01	AWE	0.001	18.300	AGC MAVG - calculated
10/5/2013 12:47	0:01	AWE	0.000	17.600	AGC MAVG - calculated
10/5/2013 12:59	0:01	AWE	0.001	17.800	AGC MAVG - calculated
10/5/2013 13:04	0:01	AWE	0.000	18.300	AGC MAVG - calculated
10/5/2013 15:27	0:01	KWPII	0.007	19.162	AGC MAVG - calculated
10/5/2013 15:29	0:02	KWPII	0.048	19.205	AGC MAVG - calculated
10/5/2013 15:35	2:20	KWPII	13.634	19.208	AGC MAVG - calculated
10/5/2013 17:57	0:01	KWPII	0.005	18.355	AGC MAVG - calculated
10/5/2013 18:00	0:01	KWPII	0.006	18.702	AGC MAVG - calculated
10/5/2013 18:04	0:01	KWPII	0.010	18.749	AGC MAVG - calculated
10/5/2013 18:06	0:06	KWPII	0.127	19.154	AGC MAVG - calculated
10/5/2013 19:18	0:03	KWPII	0.023	19.073	AGC MAVG - calculated
10/5/2013 19:23	2:32	KWPII	14.727	19.211	AGC MAVG - calculated
10/5/2013 22:10	0:06	KWPII	0.211	19.102	AGC MAVG - calculated
10/5/2013 22:33	4:51	KWPII	71.055	19.211	AGC MAVG - calculated
10/6/2013 0:43	0:01	AWE	0.001	14.000	AGC MAVG - calculated
10/6/2013 0:45	0:01	AWE	0.001	14.100	AGC MAVG - calculated
10/6/2013 0:47	0:01	AWE	0.001	12.900	AGC MAVG - calculated
10/6/2013 0:49	0:23	AWE	0.920	15.600	AGC MAVG - calculated
10/6/2013 1:13	0:01	AWE	0.001	13.000	AGC MAVG - calculated
10/6/2013 1:15	0:03	AWE	0.061	12.900	AGC MAVG - calculated
10/6/2013 1:19	0:01	AWE	0.015	12.500	AGC MAVG - calculated
10/6/2013 1:22	0:47	AWE	1.756	14.400	AGC MAVG - calculated
10/6/2013 2:10	0:01	AWE	0.006	6.700	AGC MAVG - calculated
10/6/2013 2:12	0:08	AWE	0.138	7.300	AGC MAVG - calculated
10/6/2013 2:24	0:02	AWE	0.036	8.000	AGC MAVG - calculated
10/6/2013 2:28	0:31	AWE	1.059	9.700	AGC MAVG - calculated
10/6/2013 3:00	0:24	AWE	1.068	10.000	AGC MAVG - calculated
10/6/2013 3:25	2:33	KWPII	45.950	19.201	AGC MAVG - entered - Excess Energy and AGC MAVG - calculated
10/6/2013 3:25	0:47	AWE	3.229	11.100	AGC MAVG - entered - Excess Energy and AGC MAVG - calculated
10/6/2013 4:24	0:01	AWE	0.000	7.900	AGC MAVG - calculated
10/6/2013 4:29	0:52	AWE	4.188	15.800	AGC MAVG - calculated
10/6/2013 5:27	0:01	AWE	0.000	15.500	AGC MAVG - calculated
10/6/2013 5:31	0:01	AWE	0.001	15.100	AGC MAVG - calculated

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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
10/6/2013 5:52	0:01	AWE	0.000	17,800	AGC MAVG - calculated
10/6/2013 6:00	2:53	KWPII	26.399	19,211	AGC MAVG - calculated and Good Engineering and Operating Practices
10/6/2013 8:54	1:13	KWPII	7.574	19,209	AGC MAVG - calculated and Good Engineering and Operating Practices
10/6/2013 10:22	0:02	KWPII	0.033	16,888	AGC MAVG - calculated and Good Engineering and Operating Practices
10/6/2013 10:26	0:01	KWPII	0.002	17,502	AGC MAVG - calculated and Good Engineering and Operating Practices
10/6/2013 10:29	0:05	KWPII	0.050	17,113	AGC MAVG - calculated and Good Engineering and Operating Practices
10/6/2013 10:35	0:13	KWPII	0.583	17,659	AGC MAVG - calculated and Good Engineering and Operating Practices
10/6/2013 10:51	0:05	KWPII	0.208	17,171	AGC MAVG - calculated and Good Engineering and Operating Practices
10/6/2013 11:24	0:01	KWPII	0.005	13,014	AGC MAVG - calculated
10/6/2013 11:34	0:01	KWPII	0.016	18,334	AGC MAVG - calculated
10/6/2013 16:52	0:05	KWPII	0.102	18,976	AGC MAVG - calculated
10/6/2013 16:58	0:01	KWPII	0.021	18,797	AGC MAVG - calculated
10/6/2013 17:00	0:01	KWPII	0.007	18,772	AGC MAVG - calculated
10/6/2013 17:02	0:15	KWPII	0.745	19,044	AGC MAVG - calculated
10/6/2013 17:20	0:08	KWPII	0.303	18,466	AGC MAVG - calculated
10/6/2013 17:29	0:04	KWPII	0.098	18,561	AGC MAVG - calculated
10/7/2013 4:52	0:02	KWPII	0.025	1,818	AGC MAVG - calculated
10/7/2013 5:04	6:40	KWPII	2.788	8,652	AGC MAVG - calculated
10/7/2013 5:15	0:01	AWE	0.001	16,300	AGC MAVG - calculated
10/7/2013 5:17	0:01	AWE	0.001	15,600	AGC MAVG - calculated
10/7/2013 5:33	0:01	AWE	0.000	15,200	AGC MAVG - calculated
10/7/2013 5:40	0:01	AWE	0.001	16,000	AGC MAVG - calculated
10/7/2013 5:58	0:01	KWPII	0.001	8,331	AGC MAVG - calculated
10/7/2013 6:01	0:03	KWPII	0.072	9,509	AGC MAVG - calculated
10/7/2013 6:06	0:01	KWPII	0.004	9,949	AGC MAVG - calculated and Good Engineering and Operating Practices
10/7/2013 6:12	0:01	KWPII	0.012	11,327	AGC MAVG - calculated and Good Engineering and Operating Practices
10/7/2013 6:15	0:01	KWPII	0.001	10,879	AGC MAVG - calculated and Good Engineering and Operating Practices
10/7/2013 6:57	0:01	KWPII	0.007	13,254	AGC MAVG - calculated and Good Engineering and Operating Practices
10/7/2013 7:16	0:01	KWPII	0.006	15,808	AGC MAVG - calculated and Good Engineering and Operating Practices
10/7/2013 7:47	0:03	KWPII	0.029	16,576	AGC MAVG - calculated and Good Engineering and Operating Practices
10/7/2013 7:51	0:03	KWPII	0.026	16,767	AGC MAVG - calculated and Good Engineering and Operating Practices
10/7/2013 8:27	0:03	KWPII	0.060	17,395	AGC MAVG - calculated and Good Engineering and Operating Practices
10/7/2013 8:44	0:02	KWPII	0.017	17,520	AGC MAVG - calculated and Good Engineering and Operating Practices
10/7/2013 8:47	0:01	KWPII	0.006	17,545	AGC MAVG - calculated and Good Engineering and Operating Practices
10/7/2013 8:53	0:01	KWPII	0.005	18,626	AGC MAVG - calculated and Good Engineering and Operating Practices
10/7/2013 8:55	0:16	KWPII	0.522	18,799	AGC MAVG - calculated and Good Engineering and Operating Practices
10/7/2013 9:18	0:03	KWPII	0.022	18,976	AGC MAVG - calculated and Good Engineering and Operating Practices
10/7/2013 9:22	0:02	KWPII	0.023	18,716	AGC MAVG - calculated and Good Engineering and Operating Practices
10/7/2013 9:25	0:01	KWPII	0.005	18,531	AGC MAVG - calculated and Good Engineering and Operating Practices
10/7/2013 9:28	0:01	KWPII	0.022	17,757	AGC MAVG - calculated and Good Engineering and Operating Practices
10/7/2013 16:05	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/7/2013 19:52	0:07	KWPII	0.191	17,797	AGC MAVG - entered - Maintaining Regulating Reserves
10/7/2013 22:16	0:01	KWPII	0.012	9,923	AGC MAVG - calculated
10/7/2013 22:18	0:15	KWPII	1.287	14,447	AGC MAVG - calculated
10/7/2013 23:31	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/8/2013 3:14	0:01	AWE	0.000	12,500	AGC MAVG - calculated
10/8/2013 3:24	0:04	KWPII	0.024	0.752	AGC MAVG - calculated
10/8/2013 3:30	0:02	AWE	0.000	10,100	AGC MAVG - calculated
10/8/2013 3:31	0:01	KWPII	0.004	0.460	AGC MAVG - calculated
10/8/2013 3:33	0:01	KWPII	0.004	0.480	AGC MAVG - calculated
10/8/2013 3:33	0:01	AWE	0.000	10,300	AGC MAVG - calculated
10/8/2013 3:41	0:20	KWPII	1.046	7,179	AGC MAVG - calculated
10/8/2013 3:48	0:01	AWE	0.001	13,500	AGC MAVG - calculated
10/8/2013 4:11	0:01	KWPII	0.008	4,258	AGC MAVG - calculated
10/8/2013 4:15	0:03	KWPII	0.017	3,478	AGC MAVG - calculated
10/8/2013 4:24	1:07	KWPII	11.093	18,484	AGC MAVG - calculated
10/8/2013 4:28	0:01	AWE	0.001	11,600	AGC MAVG - calculated
10/8/2013 4:30	0:02	AWE	0.002	10,800	AGC MAVG - calculated
10/8/2013 4:35	0:01	AWE	0.000	10,200	AGC MAVG - calculated
10/8/2013 4:41	0:02	AWE	0.029	4,600	AGC MAVG - calculated
10/8/2013 4:46	0:03	AWE	0.058	5,300	AGC MAVG - calculated
10/8/2013 4:51	0:10	AWE	0.302	7,100	AGC MAVG - calculated
10/8/2013 5:11	0:01	AWE	0.001	6,000	AGC MAVG - calculated
10/8/2013 5:14	0:01	AWE	0.009	7,200	AGC MAVG - calculated
10/8/2013 5:32	0:12	KWPII	0.694	15,968	AGC MAVG - calculated
10/8/2013 5:45	0:03	KWPII	0.110	12,410	AGC MAVG - calculated
10/8/2013 8:56	0:01	KWPII	0.016	14,299	AGC MAVG - calculated, Good Engineering and Operating Practices, and Testing
10/8/2013 9:16	0:05	KWPII	0.077	18,373	AGC MAVG - calculated, Good Engineering and Operating Practices, and Testing
10/8/2013 9:22	0:20	KWPII	1.824	19,055	AGC MAVG - calculated, Good Engineering and Operating Practices, and Testing
10/8/2013 9:45	3:08	KWPII	20.114	19,169	AGC MAVG - calculated, Good Engineering and Operating Practices, and Testing
10/8/2013 13:00	0:01	KWPII	0.024	18,416	AGC MAVG - calculated and Testing
10/8/2013 13:04	0:01	KWPII	0.007	18,462	AGC MAVG - calculated and Testing
10/8/2013 13:07	0:01	KWPII	0.004	18,443	AGC MAVG - calculated and Testing
10/8/2013 13:12	0:01	KWPII	0.016	18,676	AGC MAVG - calculated and Testing
10/8/2013 13:15	0:01	KWPII	0.013	16,895	AGC MAVG - calculated and Testing
10/8/2013 13:33	0:01	KWPII	0.005	17,677	AGC MAVG - calculated and Testing
10/8/2013 13:35	2:22	KWPII	11.132	19,211	AGC MAVG - calculated and Testing
10/8/2013 15:58	0:10	KWPII	0.275	19,188	AGC MAVG - calculated and Testing
10/8/2013 16:16	0:01	KWPII	0.001	19,200	AGC MAVG - calculated and Testing
10/8/2013 16:20	0:08	KWPII	0.166	19,196	AGC MAVG - calculated and Testing
10/8/2013 20:30	2:53	KWPII	31.737	19,211	AGC MAVG - entered - Maintaining Regulating Reserves and AGC MAVG - calculated
10/8/2013 22:21	0:02	AWE	0.002	19,100	AGC MAVG - calculated
10/8/2013 22:24	0:01	AWE	0.000	19,000	AGC MAVG - calculated
10/8/2013 22:29	0:14	AWE	0.208	17,500	AGC MAVG - calculated
10/8/2013 22:45	0:15	AWE	0.787	16,300	AGC MAVG - calculated
10/8/2013 23:02	0:01	AWE	0.001	12,800	AGC MAVG - calculated
10/8/2013 23:04	0:01	AWE	0.006	12,400	AGC MAVG - calculated
10/8/2013 23:09	0:08	AWE	0.141	18,500	AGC MAVG - calculated
10/8/2013 23:18	0:01	AWE	0.001	16,400	AGC MAVG - calculated
10/8/2013 23:25	3:29	KWPII	65.292	19,211	AGC MAVG - calculated and Good Engineering and Operating Practices
10/8/2013 23:39	0:01	AWE	0.000	20,400	AGC MAVG - calculated
10/8/2013 23:54	0:01	AWE	0.000	17,700	AGC MAVG - calculated
10/8/2013 23:59	0:07	AWE	0.045	17,300	AGC MAVG - calculated
10/9/2013 0:13	0:02	AWE	0.022	15,600	AGC MAVG - calculated
10/9/2013 0:16	1:01	AWE	3.392	18,100	AGC MAVG - calculated and Good Engineering and Operating Practices
10/9/2013 1:18	1:36	AWE	15.424	17,800	AGC MAVG - calculated and AGC MAVG - entered
10/9/2013 2:55	1:31	AWE	17.464	18,600	AGC MAVG - entered and AGC MAVG - calculated
10/9/2013 2:55	5:03	KWPII	75.738	19,179	AGC MAVG - entered, AGC MAVG - calculated, and Good Engineering and Operating Practices
10/9/2013 4:27	0:02	AWE	0.033	12,700	AGC MAVG - calculated
10/9/2013 4:31	0:49	AWE	3.346	17,500	AGC MAVG - calculated
10/9/2013 5:21	0:01	AWE	0.013	14,400	AGC MAVG - calculated
10/9/2013 5:24	0:02	AWE	0.010	14,800	AGC MAVG - calculated
10/9/2013 5:27	0:01	AWE	0.000	14,900	AGC MAVG - calculated
10/9/2013 5:30	0:13	AWE	0.408	17,900	AGC MAVG - calculated and Good Engineering and Operating Practices
10/9/2013 5:44	0:09	AWE	0.309	18,900	AGC MAVG - calculated and Good Engineering and Operating Practices
10/9/2013 6:01	0:01	AWE	0.000	18,600	AGC MAVG - calculated and Good Engineering and Operating Practices
10/9/2013 6:09	0:01	AWE	0.000	20,400	AGC MAVG - calculated and Good Engineering and Operating Practices
10/9/2013 8:00	0:01	KWPII	0.039	18,279	AGC MAVG - calculated
10/9/2013 8:04	0:04	KWPII	0.045	18,972	AGC MAVG - calculated
10/9/2013 8:09	0:03	KWPII	0.058	18,967	AGC MAVG - calculated
10/9/2013 8:13	0:04	KWPII	0.091	19,059	AGC MAVG - calculated
10/9/2013 8:18	0:06	KWPII	0.107	19,206	AGC MAVG - calculated

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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
10/9/2013 6:25	0:07	KWPII	0.102	19.211	AGC MAVG - calculated
10/9/2013 8:35	0:01	KWPII	0.004	19.211	AGC MAVG - calculated
10/9/2013 8:38	0:02	KWPII	0.019	19.207	AGC MAVG - calculated
10/9/2013 8:41	0:04	KWPII	0.060	19.210	AGC MAVG - calculated
10/9/2013 20:44	0:03	KWPII	0.110	18.882	AGC MAVG - calculated and Good Engineering and Operating Practices
10/9/2013 22:41	0:02	KWPII	0.011	18.164	AGC MAVG - calculated
10/9/2013 23:11	0:02	KWPII	0.021	16.313	AGC MAVG - calculated
10/9/2013 23:47	0:01	KWPII	0.002	16.923	AGC MAVG - calculated
10/9/2013 23:49	0:06	KWPII	0.253	17.225	AGC MAVG - calculated
10/9/2013 23:57	0:03	KWPII	0.034	14.667	AGC MAVG - calculated
10/10/2013 0:08	0:02	KWPII	0.013	14.050	AGC MAVG - calculated
10/10/2013 0:14	0:04	KWPII	0.047	14.075	AGC MAVG - calculated
10/10/2013 0:19	0:05	KWPII	0.177	11.132	AGC MAVG - calculated
10/10/2013 0:34	0:04	KWPII	0.066	11.978	AGC MAVG - calculated
10/10/2013 0:40	0:01	KWPII	0.005	13.159	AGC MAVG - calculated
10/10/2013 0:43	0:01	KWPII	0.008	14.041	AGC MAVG - calculated
10/10/2013 0:48	0:01	KWPII	0.001	10.892	AGC MAVG - calculated
10/10/2013 1:08	0:39	KWPII	3.749	18.798	AGC MAVG - calculated
10/10/2013 1:48	0:20	KWPII	1.443	16.123	AGC MAVG - calculated
10/10/2013 2:10	0:06	KWPII	0.216	14.010	AGC MAVG - calculated
10/10/2013 2:20	0:06	KWPII	0.086	10.968	AGC MAVG - calculated
10/10/2013 2:26	0:42	KWPII	4.107	14.705	AGC MAVG - calculated
10/10/2013 3:18	0:07	KWPII	0.224	11.615	AGC MAVG - calculated
10/10/2013 3:31	0:03	KWPII	0.040	10.011	AGC MAVG - calculated
10/10/2013 4:13	0:40	KWPII	2.329	16.804	AGC MAVG - calculated
10/10/2013 4:54	0:02	KWPII	0.016	14.716	AGC MAVG - calculated
10/10/2013 4:59	0:01	KWPII	0.000	15.315	AGC MAVG - calculated
10/10/2013 7:34	0:02	KWPII	0.027	12.626	AGC MAVG - calculated
10/10/2013 7:59	0:03	KWPII	0.106	12.945	AGC MAVG - calculated
10/10/2013 8:04	0:04	KWPII	0.113	13.469	AGC MAVG - calculated
10/10/2013 8:10	0:02	KWPII	0.025	14.448	AGC MAVG - calculated
10/10/2013 8:13	0:01	KWPII	0.030	15.077	AGC MAVG - calculated
10/10/2013 8:15	0:25	KWPII	1.164	15.446	AGC MAVG - calculated
10/10/2013 8:41	0:02	KWPII	0.033	11.201	AGC MAVG - calculated
10/10/2013 12:16	0:01	KWP	0.001	0.032	AGC MAVG - calculated
10/10/2013 12:28	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/10/2013 18:41	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/10/2013 19:16	0:01	KWP	0.001	0.048	AGC MAVG - calculated
10/10/2013 19:27	0:02	KWP	0.001	0.032	AGC MAVG - calculated
10/11/2013 12:11	0:03	KWP	0.001	0.048	AGC MAVG - calculated
10/11/2013 14:56	0:01	KWP	0.003	0.192	AGC MAVG - calculated
10/11/2013 15:30	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/11/2013 18:31	0:01	AWE	0.005	0.300	AGC MAVG - calculated
10/11/2013 18:36	0:01	AWE	0.002	0.100	AGC MAVG - calculated
10/11/2013 19:05	0:01	AWE	0.002	0.100	AGC MAVG - calculated
10/11/2013 19:44	0:01	AWE	0.005	0.300	AGC MAVG - calculated
10/13/2013 1:07	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/13/2013 15:55	0:01	KWP	0.000	0.016	AGC MAVG - calculated and Good Engineering and Operating Practices
10/13/2013 15:58	0:01	KWP	0.000	0.016	AGC MAVG - calculated and Good Engineering and Operating Practices
10/13/2013 16:07	0:01	KWP	0.000	0.016	AGC MAVG - calculated and Good Engineering and Operating Practices
10/14/2013 4:39	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/14/2013 9:49	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/14/2013 11:08	0:01	KWPII	0.001	0.036	AGC MAVG - calculated
10/15/2013 4:53	0:01	KWP	0.001	0.048	AGC MAVG - calculated
10/15/2013 4:57	0:01	KWP	0.001	0.032	AGC MAVG - calculated
10/15/2013 10:35	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/15/2013 23:32	0:01	KWP	0.001	0.032	AGC MAVG - calculated
10/16/2013 8:32	0:02	KWPII	0.025	18.469	AGC MAVG - calculated
10/16/2013 8:45	0:01	KWPII	0.014	19.520	AGC MAVG - calculated
10/16/2013 10:19	0:01	KWPII	0.000	12.198	AGC MAVG - calculated
10/16/2013 10:21	0:04	KWPII	0.057	14.266	AGC MAVG - calculated
10/16/2013 10:49	0:01	KWPII	0.010	14.215	AGC MAVG - calculated
10/16/2013 10:51	0:01	KWPII	0.035	14.652	AGC MAVG - calculated
10/16/2013 10:54	0:03	KWPII	0.092	15.234	AGC MAVG - calculated
10/16/2013 10:58	0:14	KWPII	0.290	15.423	AGC MAVG - calculated
10/17/2013 9:05	0:01	AWE	0.005	0.300	AGC MAVG - calculated
10/17/2013 11:41	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/17/2013 14:24	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/17/2013 14:26	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/18/2013 7:48	0:01	AWE	0.002	0.100	AGC MAVG - calculated
10/18/2013 9:31	0:01	AWE	0.002	0.100	AGC MAVG - calculated and Good Engineering and Operating Practices
10/18/2013 9:57	0:01	AWE	0.002	0.100	AGC MAVG - calculated and Good Engineering and Operating Practices
10/18/2013 10:12	0:01	AWE	0.002	0.100	AGC MAVG - calculated and Good Engineering and Operating Practices
10/18/2013 10:50	0:01	AWE	0.002	0.100	AGC MAVG - calculated and Good Engineering and Operating Practices
10/18/2013 16:41	0:01	AWE	0.005	0.300	AGC MAVG - calculated and Testing
10/19/2013 9:48	0:01	KWP	0.001	0.032	AGC MAVG - calculated
10/19/2013 10:03	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/19/2013 10:21	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/19/2013 19:34	0:01	AWE	0.005	0.300	AGC MAVG - calculated
10/19/2013 20:20	0:01	KWP	0.001	0.032	AGC MAVG - calculated
10/20/2013 18:30	0:02	KWP	0.001	0.032	AGC MAVG - calculated
10/21/2013 4:34	0:01	KWP	0.001	0.048	AGC MAVG - calculated
10/21/2013 9:59	0:02	AWE	0.008	0.300	AGC MAVG - calculated and Testing
10/21/2013 10:50	0:01	AWE	0.003	0.200	AGC MAVG - calculated and Testing
10/21/2013 16:44	0:01	AWE	0.002	0.100	AGC MAVG - calculated and Testing
10/22/2013 8:24	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/22/2013 20:59	0:01	AWE	0.002	0.100	AGC MAVG - calculated
10/22/2013 23:24	0:02	KWPII	0.037	15.374	AGC MAVG - calculated
10/22/2013 23:50	0:01	AWE	0.002	0.100	AGC MAVG - calculated
10/23/2013 4:15	0:01	KWPII	0.010	14.232	AGC MAVG - calculated
10/23/2013 4:55	0:01	KWPII	0.013	13.926	AGC MAVG - calculated
10/23/2013 5:06	0:01	AWE	0.002	0.100	AGC MAVG - calculated
10/23/2013 23:37	0:03	KWPII	0.025	14.534	AGC MAVG - calculated
10/24/2013 2:09	0:01	KWPII	0.005	12.523	AGC MAVG - calculated
10/24/2013 2:18	0:02	KWPII	0.043	10.318	AGC MAVG - calculated
10/24/2013 2:29	0:01	KWPII	0.002	8.613	AGC MAVG - calculated
10/24/2013 5:31	0:01	AWE	0.002	0.100	AGC MAVG - calculated
10/24/2013 6:10	0:01	AWE	0.002	0.100	AGC MAVG - calculated
10/24/2013 17:26	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/25/2013 1:40	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/25/2013 4:19	0:01	KWPII	0.001	0.054	AGC MAVG - calculated
10/25/2013 4:45	0:01	KWPII	0.000	0.026	AGC MAVG - calculated
10/25/2013 5:01	0:01	KWPII	0.000	0.025	AGC MAVG - calculated
10/25/2013 8:49	0:01	KWPII	0.001	0.084	AGC MAVG - calculated
10/25/2013 11:52	0:01	KWP	0.001	0.064	AGC MAVG - calculated
10/25/2013 14:33	0:01	KWP	0.001	0.048	AGC MAVG - calculated
10/25/2013 15:34	0:01	KWP	0.001	0.032	AGC MAVG - calculated
10/25/2013 17:14	0:01	KWP	0.001	0.032	AGC MAVG - calculated
10/25/2013 17:46	0:01	KWP	0.001	0.064	AGC MAVG - calculated
10/25/2013 17:50	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/25/2013 17:53	0:02	KWP	0.001	0.032	AGC MAVG - calculated
10/25/2013 18:04	0:01	KWP	0.000	0.016	AGC MAVG - calculated

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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
10/25/2013 18:10	0:01	KWP	0.001	0.032	AGC MAVG - calculated
10/27/2013 7:36	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/28/2013 9:02	0:01	KWP	0.000	0.016	AGC MAVG - calculated
10/28/2013 17:39	0:03	KWPII	0.115	17.123	AGC MAVG - calculated and Testing
10/28/2013 17:45	0:02	KWPII	0.066	17.315	AGC MAVG - calculated and Testing
10/28/2013 17:48	0:01	KWPII	0.035	18.300	AGC MAVG - calculated and Testing
10/28/2013 17:51	0:01	KWPII	0.014	18.880	AGC MAVG - calculated and Testing
10/28/2013 23:36	0:01	KWPII	0.015	18.414	AGC MAVG - calculated
10/28/2013 23:39	0:02	KWPII	0.066	17.398	AGC MAVG - calculated
10/28/2013 23:45	0:02	KWPII	0.036	15.727	AGC MAVG - calculated
10/28/2013 23:48	0:04	KWPII	0.080	15.385	AGC MAVG - calculated
10/29/2013 0:23	0:16	KWPII	0.442	18.806	AGC MAVG - calculated
10/29/2013 1:38	0:08	KWPII	0.328	16.635	AGC MAVG - calculated
10/29/2013 1:47	0:53	KWPII	5.104	15.508	AGC MAVG - calculated
10/29/2013 2:45	0:03	KWPII	0.061	11.016	AGC MAVG - calculated
10/29/2013 2:49	0:01	KWPII	0.014	10.784	AGC MAVG - calculated
10/29/2013 2:59	0:25	KWPII	1.646	14.720	AGC MAVG - calculated
10/29/2013 3:25	0:36	KWPII	4.455	13.950	AGC MAVG - calculated
10/29/2013 3:38	0:01	AWE	0.001	6.500	AGC MAVG - calculated
10/29/2013 3:50	0:02	AWE	0.001	7.800	AGC MAVG - calculated
10/29/2013 4:03	0:01	KWPII	0.023	9.313	AGC MAVG - calculated
10/29/2013 4:05	0:04	KWPII	0.101	11.350	AGC MAVG - calculated
10/29/2013 4:58	0:01	KWPII	0.039	9.410	AGC MAVG - calculated
10/29/2013 5:01	0:01	KWPII	0.022	9.389	AGC MAVG - calculated
10/29/2013 5:03	0:03	KWPII	0.073	10.257	AGC MAVG - calculated
10/29/2013 5:07	0:03	KWPII	0.084	10.965	AGC MAVG - calculated
10/29/2013 5:11	0:24	KWPII	1.290	17.889	AGC MAVG - calculated
10/29/2013 5:59	0:01	KWPII	0.006	18.573	AGC MAVG - calculated
10/29/2013 7:12	0:02	KWPII	0.033	18.385	AGC MAVG - calculated
10/29/2013 7:21	0:41	KWPII	3.963	20.146	AGC MAVG - calculated
10/29/2013 8:04	0:05	KWPII	0.200	20.001	AGC MAVG - calculated
10/29/2013 8:13	0:01	KWPII	0.015	19.534	AGC MAVG - calculated
10/29/2013 17:47	0:02	KWPII	0.053	17.873	AGC MAVG - calculated and Good Engineering and Operating Practices
10/29/2013 17:50	0:01	KWPII	0.033	18.404	AGC MAVG - calculated and Good Engineering and Operating Practices
10/29/2013 17:57	0:01	KWPII	0.023	19.658	AGC MAVG - calculated and Good Engineering and Operating Practices
10/29/2013 21:19	0:01	AWE	0.002	0.100	AGC MAVG - calculated and Good Engineering and Operating Practices
10/29/2013 22:40	0:01	AWE	0.003	0.200	AGC MAVG - calculated and Good Engineering and Operating Practices
10/29/2013 22:48	0:01	AWE	0.003	0.200	AGC MAVG - calculated
10/30/2013 0:01	0:01	AWE	0.007	0.400	AGC MAVG - calculated
10/30/2013 0:04	0:01	KWPII	0.006	18.388	AGC MAVG - calculated
10/30/2013 0:58	0:01	KWPII	0.000	18.724	AGC MAVG - calculated
10/30/2013 1:00	0:01	KWPII	0.002	18.508	AGC MAVG - calculated
10/30/2013 1:02	0:01	KWPII	0.014	17.425	AGC MAVG - calculated
10/30/2013 1:13	0:01	KWPII	0.007	16.484	AGC MAVG - calculated
10/30/2013 1:15	0:02	KWPII	0.017	17.339	AGC MAVG - calculated
10/30/2013 1:23	0:01	AWE	0.002	0.100	AGC MAVG - calculated
10/30/2013 1:34	0:01	KWPII	0.005	16.446	AGC MAVG - calculated
10/30/2013 2:11	0:04	KWPII	0.040	16.070	AGC MAVG - calculated
10/30/2013 2:16	0:01	KWPII	0.019	16.031	AGC MAVG - calculated
10/30/2013 2:21	0:15	KWPII	0.606	19.893	AGC MAVG - calculated
10/30/2013 2:53	0:01	AWE	0.007	0.400	AGC MAVG - calculated
10/30/2013 2:57	0:01	KWPII	0.008	10.874	AGC MAVG - calculated
10/30/2013 2:59	1:38	KWPII	8.558	19.846	AGC MAVG - calculated
10/30/2013 4:40	0:08	KWPII	0.221	17.919	AGC MAVG - calculated
10/30/2013 4:49	0:01	KWPII	0.002	15.626	AGC MAVG - calculated
10/30/2013 4:58	0:02	KWPII	0.005	15.483	AGC MAVG - calculated
10/30/2013 5:02	0:32	KWPII	2.772	20.613	AGC MAVG - calculated
10/30/2013 8:02	0:01	KWPII	0.020	16.543	AGC MAVG - calculated and Good Engineering and Operating Practices
10/30/2013 8:05	0:01	KWPII	0.034	17.029	AGC MAVG - calculated and Good Engineering and Operating Practices
10/30/2013 8:13	0:01	KWPII	0.026	14.663	AGC MAVG - calculated and Good Engineering and Operating Practices
10/30/2013 8:34	0:01	KWPII	0.031	15.969	AGC MAVG - calculated and Good Engineering and Operating Practices
10/30/2013 8:36	0:01	KWPII	0.005	15.516	AGC MAVG - calculated and Good Engineering and Operating Practices
10/30/2013 8:43	0:01	KWPII	0.014	13.660	AGC MAVG - calculated and Good Engineering and Operating Practices
10/30/2013 8:45	0:14	KWPII	0.656	15.580	AGC MAVG - calculated and Good Engineering and Operating Practices
10/30/2013 14:06	0:01	KWP	0.001	0.032	AGC MAVG - calculated and Good Engineering and Operating Practices
10/30/2013 19:22	0:01	KWP	0.001	0.048	AGC MAVG - calculated
10/31/2013 2:06	0:01	KWPII	0.003	0.198	AGC MAVG - calculated
10/31/2013 7:38	0:03	KWPII	0.016	7.314	AGC MAVG - calculated and Testing
10/31/2013 7:40	0:04	KWPII	0.044	8.753	AGC MAVG - calculated and Testing
10/31/2013 7:45	0:17	KWPII	1.363	16.282	AGC MAVG - calculated and Testing
10/31/2013 11:15	0:01	KWP	0.001	0.080	AGC MAVG - calculated and Testing
10/31/2013 12:46	0:01	KWP	0.001	0.048	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
10/31/2013 13:01	0:01	KWP	0.000	0.016	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
10/31/2013 15:18	0:01	KWPII	0.013	11.417	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
10/31/2013 15:22	0:01	KWPII	0.019	10.856	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
10/31/2013 15:24	0:02	KWPII	0.064	14.327	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
10/31/2013 15:27	0:02	KWPII	0.022	15.255	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
10/31/2013 15:33	0:02	KWPII	0.037	16.952	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
10/31/2013 15:36	1:03	KWPII	7.836	20.592	AGC MAVG - calculated, Testing, and Good Engineering and Operating Practices
10/31/2013 16:40	0:02	KWPII	0.041	20.384	AGC MAVG - calculated and Testing
10/31/2013 16:44	0:01	KWPII	0.006	20.263	AGC MAVG - calculated and Testing
10/31/2013 16:46	0:05	KWPII	0.031	20.579	AGC MAVG - calculated and Testing
10/31/2013 16:55	0:01	KWPII	0.002	20.398	AGC MAVG - calculated and Testing
10/31/2013 16:57	0:26	KWPII	0.724	20.524	AGC MAVG - calculated and Testing
10/31/2013 17:25	0:25	KWPII	0.984	20.705	AGC MAVG - calculated and Testing
10/31/2013 17:51	0:04	KWPII	0.050	20.708	AGC MAVG - calculated and Testing
10/31/2013 17:56	0:01	KWPII	0.029	20.570	AGC MAVG - calculated and Testing
10/31/2013 17:58	0:04	KWPII	0.049	20.617	AGC MAVG - calculated and Testing
10/31/2013 23:14	0:01	KWPII	0.006	20.701	AGC MAVG - calculated
10/31/2013 23:39	0:21	KWPII	0.618	20.708	AGC MAVG - calculated
10/31/2013 23:47	0:01	AWE	0.002	0.100	AGC MAVG - calculated

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Lana'i Curtailment Report October 2013

Start Date/Time	Stop Date/Time	Duration (h mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
10/1/2013 7 27	10/1/2013 7:29	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/1/2013 7.31	10/1/2013 9.05	1:35	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/1/2013 9 09	10/1/2013 9:16	0 08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/1/2013 9 24	10/1/2013 9 26	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/1/2013 9.29	10/1/2013 9:31	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/1/2013 9:34	10/1/2013 9:35	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/1/2013 9.38	10/1/2013 9:38	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/1/2013 9 47	10/1/2013 10 05	0 19	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/1/2013 10.07	10/1/2013 10 07	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/1/2013 10:13	10/1/2013 10.18	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/1/2013 10 25	10/1/2013 10 56	0.32	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/1/2013 10 58	10/1/2013 11 00	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/1/2013 11.03	10/1/2013 11 08	0.06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/1/2013 11:10	10/1/2013 13 43	2:34	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/1/2013 14.09	10/1/2013 14:10	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/1/2013 14:22	10/1/2013 14 22	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 6:56	10/2/2013 7.42	0 47	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 7:59	10/2/2013 8 17	0 19	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 8:19	10/2/2013 8 36	0.18	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 8.39	10/2/2013 9 38	0:58	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 9.38	10/2/2013 9:38	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 9 41	10/2/2013 9 42	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 9 44	10/2/2013 9 45	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 9 51	10/2/2013 10:13	0.23	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 10:17	10/2/2013 10:17	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 10 19	10/2/2013 10.19	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 12 31	10/2/2013 13 08	0:38	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 13 10	10/2/2013 13 40	0.31	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 13 45	10/2/2013 13 45	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 13 48	10/2/2013 13 49	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 13 57	10/2/2013 14 02	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 14 05	10/2/2013 14 08	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 14.14	10/2/2013 14 18	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 14:19	10/2/2013 14 21	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 14:26	10/2/2013 14 28	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/2/2013 14.33	10/2/2013 14 48	0 16	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/3/2013 8.25	10/3/2013 9 02	0.38	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/3/2013 11:06	10/3/2013 11:22	0 17	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/3/2013 11 54	10/3/2013 11.57	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/3/2013 13 28	10/3/2013 13.37	0.10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/3/2013 14 31	10/3/2013 14.36	0.06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/3/2013 15.40	10/3/2013 15:53	0.14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/3/2013 15.55	10/3/2013 15:59	0.05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/3/2013 16 06	10/3/2013 16:08	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/3/2013 16:13	10/3/2013 16:23	0 11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/3/2013 16 29	10/3/2013 16.31	0.03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/3/2013 16 58	10/3/2013 17 00	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/3/2013 17 11	10/3/2013 17 22	0.12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 7 59	10/4/2013 8 46	0.48	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 8 52	10/4/2013 9 02	0.11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 9 09	10/4/2013 9 19	0 11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 9.21	10/4/2013 9 21	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 9.30	10/4/2013 9 31	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 9.35	10/4/2013 9.43	0 09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 10.02	10/4/2013 10 07	0.06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 11:00	10/4/2013 11.21	0 22	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 11:23	10/4/2013 11:23	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 11 33	10/4/2013 11:42	0 10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 11 56	10/4/2013 11:56	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 12.40	10/4/2013 12 41	0.02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 12 47	10/4/2013 12.52	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 13 14	10/4/2013 13 17	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 13 22	10/4/2013 13.25	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 14 03	10/4/2013 14.06	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 14 12	10/4/2013 14:28	0 17	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 14 50	10/4/2013 14:58	0 09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 15 00	10/4/2013 15:00	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 15 04	10/4/2013 15:17	0 14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 15.19	10/4/2013 15.19	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 17.08	10/4/2013 17:10	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 17.17	10/4/2013 17 17	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/4/2013 17.20	10/4/2013 17 21	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/5/2013 7 03	10/5/2013 7.05	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/5/2013 7 20	10/5/2013 7 29	0 10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/5/2013 7 37	10/5/2013 7:42	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices

Maui Electric

Lana'i Curtailment Report October 2013

Start Date/Time	Stop Date/Time	Duration (h mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
10/5/2013 7:46	10/5/2013 7:46	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/5/2013 7:57	10/5/2013 7:57	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/5/2013 8:05	10/5/2013 8:16	0.12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/5/2013 8:26	10/5/2013 8:29	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/5/2013 8:41	10/5/2013 9:49	1 09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/5/2013 9:51	10/5/2013 10:58	1 08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/5/2013 11:00	10/5/2013 11:03	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/5/2013 11:48	10/5/2013 12:42	0.55	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/5/2013 12:52	10/5/2013 12:53	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/5/2013 15:06	10/5/2013 15:08	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/6/2013 7:59	10/6/2013 7:59	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/6/2013 8:20	10/6/2013 9:16	0 57	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/6/2013 9:21	10/6/2013 9:24	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/6/2013 9:26	10/6/2013 9:29	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/6/2013 10:15	10/6/2013 10:17	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/6/2013 11:39	10/6/2013 11:42	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/6/2013 11:47	10/6/2013 11:54	0 08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/6/2013 12:18	10/6/2013 12:25	0 08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/6/2013 13:05	10/6/2013 13:05	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/6/2013 13:27	10/6/2013 13:29	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/6/2013 14:10	10/6/2013 14:25	0 16	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/6/2013 15:20	10/6/2013 15:27	0 08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/6/2013 15:41	10/6/2013 15:43	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 7:07	10/7/2013 7:18	0 12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 7:57	10/7/2013 7:58	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 8:00	10/7/2013 8:17	0.18	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 8:19	10/7/2013 8:27	0 09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 8:29	10/7/2013 8:37	0 09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 8:42	10/7/2013 9:00	0 19	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 9:02	10/7/2013 9:21	0 20	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 9:31	10/7/2013 9:36	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 9:39	10/7/2013 9:42	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 9:44	10/7/2013 9:44	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 9:47	10/7/2013 9:47	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 9:50	10/7/2013 9:50	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 9:52	10/7/2013 9:56	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 10:05	10/7/2013 10:06	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 10:42	10/7/2013 10:44	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 11:13	10/7/2013 11:20	0 08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 11:33	10/7/2013 11:38	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 11:56	10/7/2013 11:59	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 12:05	10/7/2013 12:16	0 12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 12:20	10/7/2013 12:20	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 12:28	10/7/2013 12:29	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 12:32	10/7/2013 12:41	0.10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 12:43	10/7/2013 14:08	1.26	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 14:12	10/7/2013 14:13	0.02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 14:15	10/7/2013 14:18	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 14:32	10/7/2013 14:35	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 14:37	10/7/2013 14:37	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 15:02	10/7/2013 15:03	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 15:15	10/7/2013 15:25	0 11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 15:38	10/7/2013 16:22	0.45	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 16:32	10/7/2013 17:04	0.33	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 17:09	10/7/2013 17:12	0.04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/7/2013 17:15	10/7/2013 17:18	0.04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 7:06	10/8/2013 7:06	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 7:08	10/8/2013 7:08	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 7:14	10/8/2013 7:15	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 7:17	10/8/2013 7:18	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 7:22	10/8/2013 7:37	0:16	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 7:43	10/8/2013 7:43	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 7:47	10/8/2013 7:47	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 7:52	10/8/2013 7:52	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 7:58	10/8/2013 8:01	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 8:03	10/8/2013 8:27	0 25	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 9:33	10/8/2013 9:35	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 9:39	10/8/2013 9:40	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 9:42	10/8/2013 9:44	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 9:46	10/8/2013 9:46	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 9:49	10/8/2013 9:55	0.07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 9:57	10/8/2013 10:01	0.05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 10:03	10/8/2013 10:08	0.06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 10:11	10/8/2013 10:12	0.02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 10:19	10/8/2013 10:21	0.03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices

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Lana'i Curtailment Report October 2013

Start Date/Time	Stop Date/Time	Duration (h mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
10/8/2013 10:27	10/8/2013 10:31	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 10:34	10/8/2013 10:34	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 10:36	10/8/2013 10:37	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 10:43	10/8/2013 10:43	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 10:45	10/8/2013 10:45	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 10:47	10/8/2013 10:51	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 10:56	10/8/2013 10:56	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 10:58	10/8/2013 10:58	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 11:01	10/8/2013 11:01	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 11:06	10/8/2013 11:08	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 11:10	10/8/2013 11:14	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 11:21	10/8/2013 11:22	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 11:24	10/8/2013 11:27	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 12:35	10/8/2013 12:36	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 12:38	10/8/2013 12:47	0 10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 12:51	10/8/2013 12:51	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 12:53	10/8/2013 12:53	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 12:59	10/8/2013 13:01	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 13:04	10/8/2013 13:27	0 24	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 13:30	10/8/2013 13:32	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 13:38	10/8/2013 13:38	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 13:42	10/8/2013 13:53	0 12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 14:03	10/8/2013 14:31	0 29	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 14:41	10/8/2013 14:41	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 15:07	10/8/2013 15:07	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 15:09	10/8/2013 15:22	0 14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 15:52	10/8/2013 16:00	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 16:03	10/8/2013 16:09	0.07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/8/2013 16:12	10/8/2013 16:18	0 07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 7:28	10/9/2013 7:28	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 7:30	10/9/2013 7:35	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 7:37	10/9/2013 7:49	0.13	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 8:04	10/9/2013 8:33	0:30	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 8:57	10/9/2013 9:30	0.34	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 9:34	10/9/2013 9:49	0.16	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 9:51	10/9/2013 9:51	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 10:35	10/9/2013 11:14	0 40	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 11:17	10/9/2013 11:17	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 11:19	10/9/2013 11:43	0.25	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 11:47	10/9/2013 11:51	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 11:56	10/9/2013 12:07	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 12:33	10/9/2013 12:36	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 12:39	10/9/2013 12:39	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 12:42	10/9/2013 12:44	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 14:47	10/9/2013 14:47	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 14:50	10/9/2013 14:51	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 15:24	10/9/2013 15:24	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 15:29	10/9/2013 15:30	0.02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 15:35	10/9/2013 15:39	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 15:55	10/9/2013 16:02	0.08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 16:04	10/9/2013 16:04	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 16:43	10/9/2013 16:43	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/9/2013 16:46	10/9/2013 16:55	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 7:16	10/10/2013 8:07	0 52	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 8:09	10/10/2013 9:54	1:46	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 9:57	10/10/2013 9:59	0.03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 10:02	10/10/2013 10:03	0.02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 10:07	10/10/2013 10:14	0.08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 10:16	10/10/2013 10:16	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 10:18	10/10/2013 10:18	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 10:21	10/10/2013 10:23	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 10:26	10/10/2013 10:28	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 10:30	10/10/2013 12:36	2 07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 12:52	10/10/2013 12:52	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 12:56	10/10/2013 13:01	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 13:20	10/10/2013 13:26	0 07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 14:01	10/10/2013 14:08	0 08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 14:11	10/10/2013 14:16	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 14:42	10/10/2013 14:47	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 14:54	10/10/2013 15:00	0.07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 15:09	10/10/2013 15:09	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 15:11	10/10/2013 15:11	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 15:15	10/10/2013 15:15	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 15:29	10/10/2013 15:46	0 18	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 15:49	10/10/2013 16:02	0 14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices

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Lana'i Curtailment Report October 2013

Start Date/Time	Stop Date/Time	Duration (h.mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
10/10/2013 16:05	10/10/2013 16.06	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 16:10	10/10/2013 16:12	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 16.38	10/10/2013 16.38	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 16.57	10/10/2013 16.58	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/10/2013 17:01	10/10/2013 17.08	0 08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 7.08	10/11/2013 7 08	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 7.10	10/11/2013 7.10	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 7:12	10/11/2013 7 28	0 17	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 7 35	10/11/2013 7 40	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 7.55	10/11/2013 7.55	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 8.02	10/11/2013 8:25	0 24	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 8 30	10/11/2013 8:39	0 10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 8 43	10/11/2013 11:19	2.37	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 11:21	10/11/2013 11.46	0 26	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 12.18	10/11/2013 12.35	0 18	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 12 37	10/11/2013 12 44	0.08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 12 47	10/11/2013 13 07	0 21	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 13 09	10/11/2013 14 05	0 57	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 14.07	10/11/2013 14.10	0.04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 14.32	10/11/2013 14 33	0.02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 14:53	10/11/2013 14:53	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 14:57	10/11/2013 14 58	0.02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/11/2013 15:31	10/11/2013 15 31	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 7 24	10/12/2013 7 28	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 7:34	10/12/2013 7.44	0 11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 7 52	10/12/2013 8 07	0.16	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 8.14	10/12/2013 8 14	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 8 17	10/12/2013 8:22	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 8 26	10/12/2013 8.30	0.05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 8:32	10/12/2013 8:33	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 8:35	10/12/2013 8:47	0:13	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 8 49	10/12/2013 8 49	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 8:51	10/12/2013 8.51	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 9.50	10/12/2013 9:51	0.02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 9 54	10/12/2013 9 55	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 10.09	10/12/2013 10.15	0.07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 10 20	10/12/2013 10:23	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 10.52	10/12/2013 10.52	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 11:03	10/12/2013 11 03	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 11:32	10/12/2013 11.37	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 12.01	10/12/2013 12 03	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 12:53	10/12/2013 12.53	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 13.02	10/12/2013 13 09	0 07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 13.33	10/12/2013 13 36	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 13 40	10/12/2013 13 45	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 14 20	10/12/2013 14 22	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 14 26	10/12/2013 14:31	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/12/2013 16 31	10/12/2013 17 01	0 31	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/13/2013 7 15	10/13/2013 8:39	1:25	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/13/2013 9 04	10/13/2013 9.04	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/13/2013 9 06	10/13/2013 9:14	0 09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/13/2013 9 16	10/13/2013 9:23	0 08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/13/2013 9 35	10/13/2013 9:37	0.03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/13/2013 9.58	10/13/2013 10 03	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/13/2013 10 08	10/13/2013 10 21	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/13/2013 10 25	10/13/2013 10 38	0 14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/13/2013 10:41	10/13/2013 10 41	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/13/2013 10 46	10/13/2013 10 51	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/13/2013 10 53	10/13/2013 10:54	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/13/2013 11.20	10/13/2013 11 26	0 07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/13/2013 11:32	10/13/2013 11 32	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/13/2013 11 47	10/13/2013 11:48	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/13/2013 12.51	10/13/2013 12 53	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/13/2013 12.56	10/13/2013 12 58	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 7 28	10/14/2013 7.28	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 7 47	10/14/2013 7.48	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 8 04	10/14/2013 8 05	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 8 12	10/14/2013 8:13	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 8 15	10/14/2013 8:15	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 8 17	10/14/2013 8.17	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 8 19	10/14/2013 8 26	0 08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 8 30	10/14/2013 8 40	0.11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 8:43	10/14/2013 8 44	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 8 58	10/14/2013 8 58	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 9 04	10/14/2013 9 05	0.02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices

Maui Electric

Lana'i Curtailment Report October 2013

Start Date/Time	Stop Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
10/14/2013 9:07	10/14/2013 9:07	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 9:09	10/14/2013 9:17	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 9:38	10/14/2013 9:38	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 9:40	10/14/2013 9:40	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 9:46	10/14/2013 9:46	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 9:48	10/14/2013 9:58	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 10:00	10/14/2013 10:14	0:15	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 10:18	10/14/2013 10:32	0:15	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 10:37	10/14/2013 10:41	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 11:47	10/14/2013 11:47	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 11:52	10/14/2013 12:22	0:31	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 12:25	10/14/2013 12:26	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 12:28	10/14/2013 12:28	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 12:35	10/14/2013 12:35	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 14:03	10/14/2013 14:05	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 14:13	10/14/2013 14:13	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 15:38	10/14/2013 15:38	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 15:40	10/14/2013 15:43	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 16:06	10/14/2013 16:07	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 16:09	10/14/2013 16:11	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 16:13	10/14/2013 16:23	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/14/2013 16:31	10/14/2013 16:32	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 7:23	10/15/2013 9:11	1:49	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 9:14	10/15/2013 9:14	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 9:45	10/15/2013 9:45	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 10:14	10/15/2013 10:16	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 10:19	10/15/2013 10:19	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 10:22	10/15/2013 10:57	0:36	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 11:02	10/15/2013 11:07	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 11:24	10/15/2013 11:32	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 11:34	10/15/2013 11:53	0:20	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 12:11	10/15/2013 12:19	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 12:21	10/15/2013 12:35	0:15	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 12:42	10/15/2013 12:42	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 13:07	10/15/2013 13:09	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 13:13	10/15/2013 13:29	0:17	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 14:05	10/15/2013 14:05	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 14:21	10/15/2013 14:23	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 15:24	10/15/2013 15:24	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/15/2013 15:34	10/15/2013 15:36	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 7:21	10/16/2013 8:26	1:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 8:30	10/16/2013 8:33	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 8:35	10/16/2013 8:36	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 8:58	10/16/2013 9:02	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 9:23	10/16/2013 9:34	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 9:39	10/16/2013 9:41	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 9:43	10/16/2013 9:46	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 9:49	10/16/2013 10:36	0:48	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 10:41	10/16/2013 10:42	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 10:56	10/16/2013 11:15	0:20	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 11:19	10/16/2013 11:23	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 11:43	10/16/2013 11:46	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 11:57	10/16/2013 12:06	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 12:17	10/16/2013 12:20	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 12:30	10/16/2013 12:31	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 12:53	10/16/2013 12:54	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 13:03	10/16/2013 13:04	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 13:06	10/16/2013 13:55	0:50	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 13:59	10/16/2013 13:59	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 14:27	10/16/2013 14:27	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 14:29	10/16/2013 14:31	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 14:34	10/16/2013 14:40	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 14:43	10/16/2013 14:45	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 14:47	10/16/2013 14:48	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 15:04	10/16/2013 15:07	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 15:10	10/16/2013 15:21	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 15:27	10/16/2013 15:27	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 15:29	10/16/2013 15:34	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 15:36	10/16/2013 15:38	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 15:40	10/16/2013 15:47	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 15:57	10/16/2013 16:02	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 16:15	10/16/2013 16:18	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/16/2013 16:25	10/16/2013 16:59	0:35	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 7:18	10/17/2013 8:26	1:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 8:30	10/17/2013 8:39	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices

Maui Electric

Lana'i Curtailment Report October 2013

Start Date/Time	Stop Date/Time	Duration (h.mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
10/17/2013 8:47	10/17/2013 9:00	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 9:02	10/17/2013 9:08	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 9:09	10/17/2013 10:36	1:28	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 10:40	10/17/2013 10:52	0:13	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 10:58	10/17/2013 11:02	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 11:06	10/17/2013 11:06	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 11:11	10/17/2013 11:13	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 11:23	10/17/2013 11:31	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 11:33	10/17/2013 11:36	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 11:38	10/17/2013 11:45	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 11:47	10/17/2013 11:51	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 11:54	10/17/2013 11:54	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 12:01	10/17/2013 12:06	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 12:15	10/17/2013 12:30	0:16	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 12:33	10/17/2013 12:34	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 12:38	10/17/2013 12:41	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 12:43	10/17/2013 12:50	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 12:53	10/17/2013 12:53	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 12:57	10/17/2013 12:57	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 13:04	10/17/2013 13:04	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 13:07	10/17/2013 13:07	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 13:10	10/17/2013 13:11	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 13:13	10/17/2013 13:16	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 13:20	10/17/2013 13:20	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 13:23	10/17/2013 13:23	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 13:25	10/17/2013 13:34	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 13:37	10/17/2013 13:39	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 13:45	10/17/2013 13:48	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 13:51	10/17/2013 13:57	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 13:59	10/17/2013 14:19	0:21	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 14:21	10/17/2013 14:23	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/17/2013 15:43	10/17/2013 16:08	0:26	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 7:26	10/18/2013 7:26	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 7:30	10/18/2013 7:31	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 7:34	10/18/2013 7:35	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 7:54	10/18/2013 7:54	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 7:56	10/18/2013 7:56	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 8:02	10/18/2013 8:08	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 8:11	10/18/2013 8:11	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 8:14	10/18/2013 8:24	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 8:27	10/18/2013 8:27	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 8:29	10/18/2013 8:29	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 8:31	10/18/2013 8:43	0:13	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 8:55	10/18/2013 8:55	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 8:57	10/18/2013 9:16	0:20	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 9:19	10/18/2013 9:19	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 9:35	10/18/2013 9:36	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 9:42	10/18/2013 9:58	0:17	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 10:03	10/18/2013 10:04	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 10:07	10/18/2013 10:10	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 10:14	10/18/2013 10:27	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 10:32	10/18/2013 10:40	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 10:49	10/18/2013 10:50	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 10:57	10/18/2013 10:57	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 11:00	10/18/2013 11:03	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 11:20	10/18/2013 11:20	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 11:22	10/18/2013 11:22	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 11:40	10/18/2013 11:40	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 11:43	10/18/2013 11:44	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 11:47	10/18/2013 11:47	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 11:52	10/18/2013 11:55	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 12:01	10/18/2013 12:03	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 12:08	10/18/2013 12:09	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 12:20	10/18/2013 13:46	1:27	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 13:48	10/18/2013 14:09	0:22	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 14:12	10/18/2013 14:14	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 14:16	10/18/2013 14:17	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 14:19	10/18/2013 15:28	1:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 15:31	10/18/2013 15:32	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 15:36	10/18/2013 15:51	0:16	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 16:09	10/18/2013 16:29	0:21	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 16:31	10/18/2013 16:46	0:16	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/18/2013 16:53	10/18/2013 17:04	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/19/2013 7:17	10/19/2013 8:36	1:20	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/19/2013 8:38	10/19/2013 8:40	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices

Maui Electric

Lana'i Curtailment Report October 2013

Start Date/Time	Stop Date/Time	Duration (h mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
10/19/2013 9 04	10/19/2013 9.04	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/19/2013 9.30	10/19/2013 9.35	0.06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/19/2013 9 43	10/19/2013 9:50	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/19/2013 9 52	10/19/2013 16:18	6:27	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/19/2013 16 20	10/19/2013 16:48	0:29	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 7 16	10/20/2013 7.55	0:40	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 8 00	10/20/2013 8 01	0.02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 8.33	10/20/2013 8.35	0.03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 8 37	10/20/2013 8:37	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 8 40	10/20/2013 8.41	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 9 45	10/20/2013 9:45	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 9 52	10/20/2013 10 05	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 10 33	10/20/2013 10 33	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 10 35	10/20/2013 10.35	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 10.37	10/20/2013 10.38	0.02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 10.43	10/20/2013 10 43	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 11:10	10/20/2013 11:10	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 11.14	10/20/2013 11 14	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 11:30	10/20/2013 11:31	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 11.53	10/20/2013 11 53	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 11:59	10/20/2013 11.59	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 12.10	10/20/2013 12 11	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 12:25	10/20/2013 12.25	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 12.39	10/20/2013 12.39	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 12:44	10/20/2013 12 46	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 12:50	10/20/2013 12.50	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 12:57	10/20/2013 12 59	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 13 03	10/20/2013 13 07	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 13 09	10/20/2013 13:14	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 13 16	10/20/2013 13:20	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 13 36	10/20/2013 13.40	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 13 42	10/20/2013 13 44	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 13.46	10/20/2013 13 46	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 13.48	10/20/2013 14 00	0 13	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 14 03	10/20/2013 14:22	0.20	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/20/2013 14 25	10/20/2013 16 41	2 17	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 7.19	10/21/2013 7 26	0 08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 7 28	10/21/2013 7.28	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 7:53	10/21/2013 9 10	1:18	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 9.13	10/21/2013 9 14	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 9:17	10/21/2013 9.27	0 11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 9 42	10/21/2013 9 45	0.04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 9 47	10/21/2013 9 48	0.02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 9 50	10/21/2013 9.50	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 10 13	10/21/2013 10:13	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 10 24	10/21/2013 10 35	0 12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 10 38	10/21/2013 10 41	0.04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 10 43	10/21/2013 11 03	0.21	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 11:05	10/21/2013 11 21	0:17	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 11 27	10/21/2013 11.28	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 11 41	10/21/2013 11:42	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 11 46	10/21/2013 12.02	0.17	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 12 04	10/21/2013 12.06	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 12 29	10/21/2013 12.29	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 12.31	10/21/2013 12.31	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 12.58	10/21/2013 13 00	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 13 03	10/21/2013 13.06	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 13:16	10/21/2013 13.46	0 31	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/21/2013 13 50	10/21/2013 13 53	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 7.18	10/22/2013 8 03	0 46	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 8 05	10/22/2013 9:01	0 57	LSR	Data is not available	Data is not available	Testing
10/22/2013 9 09	10/22/2013 9.55	0 47	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 9 57	10/22/2013 9:58	0.02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 10 02	10/22/2013 10 04	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 10 07	10/22/2013 10.36	0 30	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 10 42	10/22/2013 10 43	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 10:46	10/22/2013 10 46	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 10.55	10/22/2013 10.59	0.05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 11 05	10/22/2013 11 05	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 11 09	10/22/2013 11.11	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 11 38	10/22/2013 11:38	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 11.49	10/22/2013 11:53	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 12 05	10/22/2013 12.15	0 11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 12:59	10/22/2013 13 04	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 13 08	10/22/2013 13 11	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices

Maui Electric

Lana'i Curtailment Report October 2013

Start Date/Time	Stop Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
10/22/2013 13:13	10/22/2013 13:15	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 13:17	10/22/2013 13:19	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 13:21	10/22/2013 13:25	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 13:36	10/22/2013 13:42	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 13:44	10/22/2013 13:44	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 13:46	10/22/2013 13:54	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 14:36	10/22/2013 14:42	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 14:46	10/22/2013 14:56	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 14:59	10/22/2013 15:01	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 15:34	10/22/2013 15:37	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 15:40	10/22/2013 17:02	1:23	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 17:05	10/22/2013 17:07	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/22/2013 17:10	10/22/2013 17:23	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/23/2013 7:20	10/23/2013 8:53	1:34	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/23/2013 8:56	10/23/2013 9:11	0:16	LSR	Data is not available	Data is not available	Testing
10/23/2013 9:14	10/23/2013 9:48	0:35	LSR	Data is not available	Data is not available	Testing
10/23/2013 12:29	10/23/2013 12:33	0:05	LSR	Data is not available	Data is not available	Testing
10/23/2013 13:13	10/23/2013 13:14	0:02	LSR	Data is not available	Data is not available	Testing
10/23/2013 13:18	10/23/2013 13:24	0:07	LSR	Data is not available	Data is not available	Testing
10/23/2013 13:52	10/23/2013 13:53	0:02	LSR	Data is not available	Data is not available	Testing
10/23/2013 13:57	10/23/2013 14:02	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/23/2013 16:28	10/23/2013 16:30	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/24/2013 7:14	10/24/2013 9:32	2:18	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/24/2013 9:35	10/24/2013 10:21	0:47	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/24/2013 10:23	10/24/2013 11:16	0:54	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/24/2013 11:23	10/24/2013 11:27	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/24/2013 11:33	10/24/2013 11:38	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/24/2013 11:53	10/24/2013 12:15	0:23	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/24/2013 12:17	10/24/2013 12:19	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/24/2013 13:47	10/24/2013 14:03	0:17	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/24/2013 14:46	10/24/2013 14:46	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/24/2013 15:02	10/24/2013 15:03	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/24/2013 16:29	10/24/2013 16:30	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/24/2013 16:34	10/24/2013 16:58	0:25	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/24/2013 17:03	10/24/2013 17:09	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/24/2013 17:14	10/24/2013 17:14	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/24/2013 17:28	10/24/2013 17:34	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/25/2013 7:13	10/25/2013 8:55	1:43	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/25/2013 9:02	10/25/2013 11:01	2:00	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/25/2013 11:13	10/25/2013 11:27	0:15	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/25/2013 11:29	10/25/2013 11:55	0:27	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/25/2013 11:58	10/25/2013 12:00	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/25/2013 12:04	10/25/2013 12:07	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/25/2013 12:09	10/25/2013 12:59	0:51	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/25/2013 15:01	10/25/2013 15:11	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/25/2013 15:14	10/25/2013 15:16	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 7:47	10/26/2013 7:59	0:13	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 8:02	10/26/2013 8:07	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 8:30	10/26/2013 8:30	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 8:34	10/26/2013 8:34	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 8:36	10/26/2013 8:36	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 8:39	10/26/2013 8:40	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 8:46	10/26/2013 8:46	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 8:49	10/26/2013 9:05	0:17	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 9:07	10/26/2013 9:11	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 9:13	10/26/2013 12:37	3:25	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 12:42	10/26/2013 12:51	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 13:06	10/26/2013 13:48	0:43	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 13:50	10/26/2013 14:49	1:00	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 14:54	10/26/2013 15:04	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 15:07	10/26/2013 15:29	0:23	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 15:31	10/26/2013 15:33	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 15:35	10/26/2013 15:37	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 15:40	10/26/2013 15:42	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 15:45	10/26/2013 15:46	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 15:48	10/26/2013 15:56	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/26/2013 16:01	10/26/2013 16:11	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 7:36	10/27/2013 7:41	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 7:55	10/27/2013 8:54	1:00	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 8:58	10/27/2013 8:58	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 9:02	10/27/2013 9:02	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 9:05	10/27/2013 9:07	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 9:10	10/27/2013 9:10	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 9:30	10/27/2013 9:33	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 9:40	10/27/2013 9:41	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices

Maui Electric

Lanai Curtailment Report October 2013

Start Date/Time	Stop Date/Time	Duration (h mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
10/27/2013 9 43	10/27/2013 9.47	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 9 49	10/27/2013 9 49	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 9 53	10/27/2013 9 56	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 9:59	10/27/2013 10 00	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 10.06	10/27/2013 10 06	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 10.11	10/27/2013 10 12	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 10 37	10/27/2013 10.52	0 16	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 10 54	10/27/2013 10.56	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 12.09	10/27/2013 12:12	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 12 14	10/27/2013 12:16	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 12.22	10/27/2013 12.22	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 12 54	10/27/2013 13.00	0 07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 13.03	10/27/2013 13 05	0.03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 13 47	10/27/2013 13 47	0.01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 14:27	10/27/2013 14 29	0.03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 14.32	10/27/2013 14 39	0 08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 15:36	10/27/2013 15 37	0.02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 16:14	10/27/2013 16 16	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
10/27/2013 16 24	10/27/2013 16.40	0 17	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices

Notes

On June 27, 2012, Maui Electric notified LSR that although LSR has not operated in compliance with the revised ramp rate of 360 kW/minute, Maui Electric would conditionally allow LSR to operate at the allowed capacity of 1.2 MW while the Maui Electric-Lanai Diesel Operator was in the control room.

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

Hawai`i Electric Light Company Curtailment Report October 2013

Start Date/Time	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released	Reason for Curtailment
10/04/13 09:19	9.0 MW	10/04/13 13:51	8.9 MW	HRD curtailment at HRD's request for maintenance.
10/06/13 06:55	13.7 MW	10/06/13 07:48	13.8 MW	Tawhiri - Emergency curtailment to stabilize system.
10/14/13 07:46	1.3 MW	10/26/13 12:57	0.6 MW	HRD curtailed to limit of 5MVA spare transformer, due to work on Waimea main transformer.
10/16/13 05:32	0.4 MW	10/16/13 16:03	0.0 MW	Wailuku curtailed for scheduled switching for relay upgrade
10/24/13 07:15	34.5 MW	10/24/13 09:25	24.8 MW	PGV curtailed for scheduled switching 8700 line