January 28, 2015

FILED

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PUBLIC UTILITIES
COMMISSION

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 December 2014 on (1) system frequency control performance during month; (2) significant system events during month; and (3) curtailment of non-dispatchable renewable resources.

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

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

Sincerely,

Daniel G. Brown
Manager
Regulatory Non-Rate Proceedings

Enclosure

cc: Service List

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

SERVICE LIST
(Docket No. 2011-0206)

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SERVICE LIST
(Docket No. 2011-0206)

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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 December 31, 2014):

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

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

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

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

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

The following provides information with respect to items 2a) through 2c) – (all statements are current as of the month ending December 31, 2014):

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

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

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

Maui Electric and Hawai'i Electric Light's under frequency load shed events are provided in Attachment 4. Hawaiian Electric did not have any under frequency load shed events for the month of December.

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. Hawai'i Electric Light currently does not have demand response program. Maui Electric has implemented the Fast Demand Response pilot program on a limited basis. Hawai'i Electric Light plans to use the findings of Maui Electric's pilot program to help in the evaluation and development of future demand response programs. Currently, Hawaiian Electric activates the demand response program for Maui Electric in conjunction with Oahu. The number of activations vary from month to month depending on Oahu's system need or for program testing. This program is not currently used in response to actual system events on Maui since the program is too small to provide meaningful system impact.

(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.

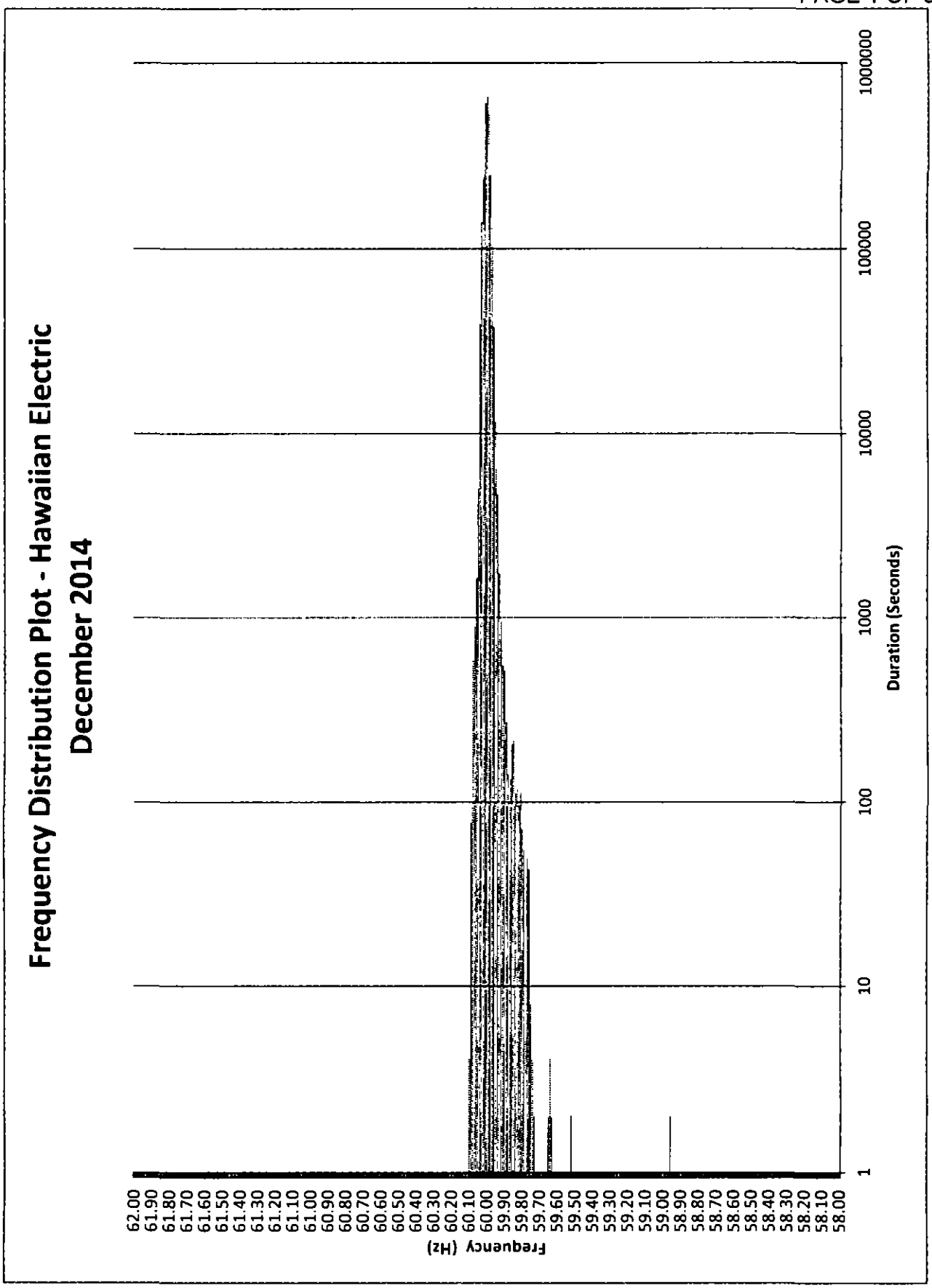
The following provides information with respect to items 3a) through 3b) – (all statements are current as of the month ending December 31, 2014):

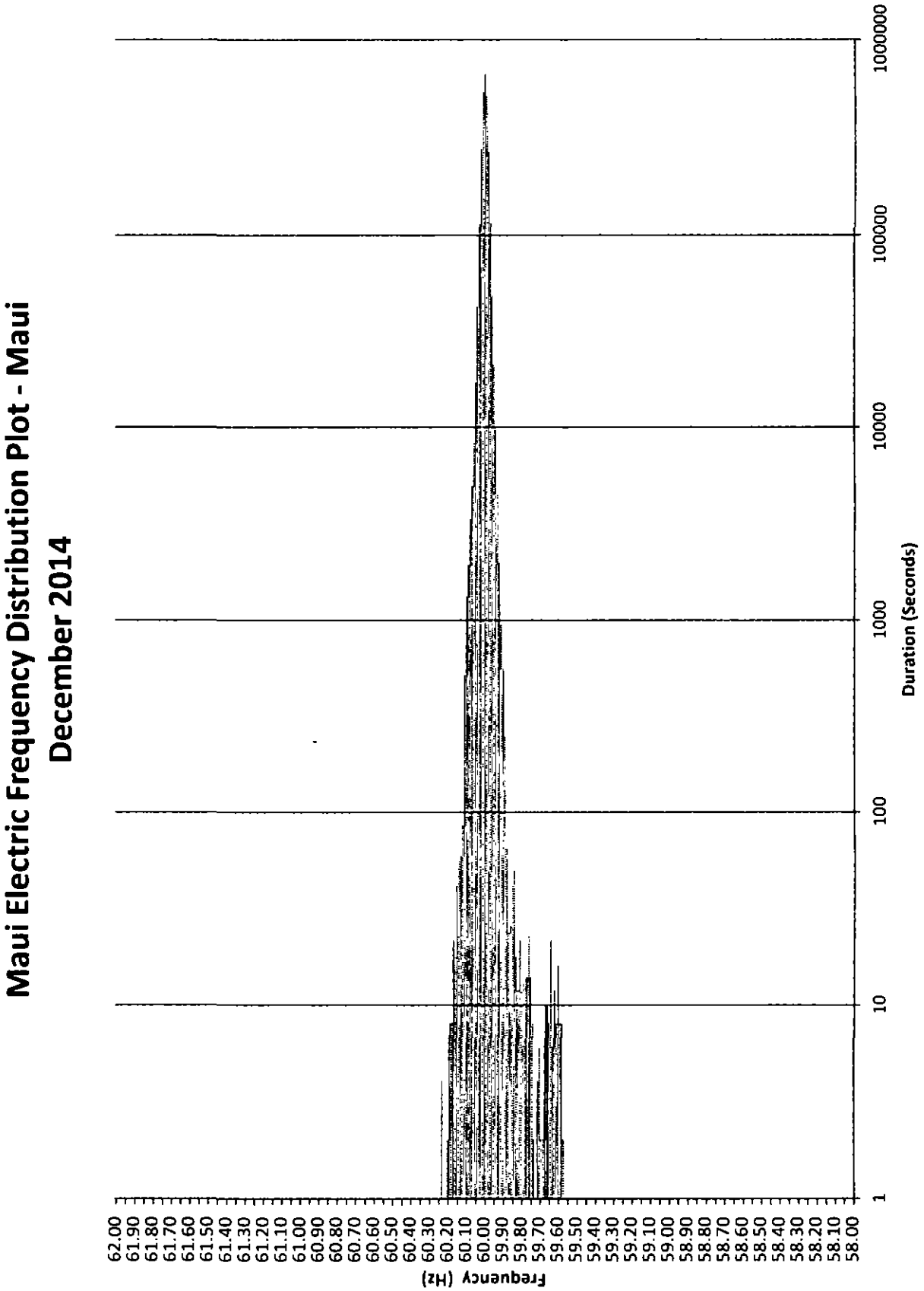
3a) Tabulation of each curtailment event for each resource including the starting date and time, duration, megawatt hours curtailed, peak MW curtailed, and reason for curtailment:

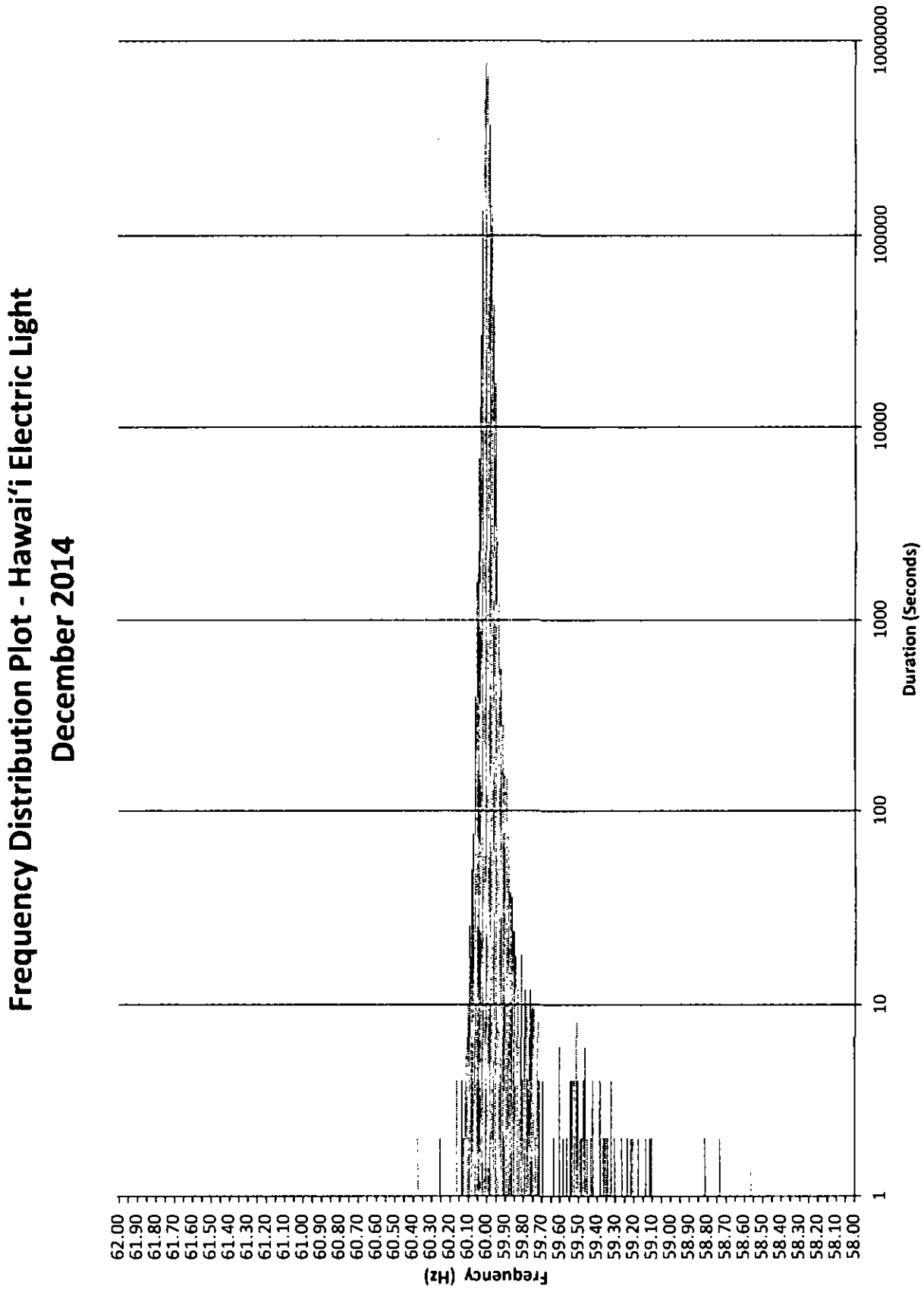
The tabulation of each curtailment event for each resource is provided in Attachment 6.

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

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


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


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


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

Hawaiian Electric Frequency Excursion Statistics December 2014		
Data Rounded to the nearest	<59.95 Hz	>60.05 Hz
Number of Excursions	967	330
Maximum Duration (sec)	878	560
Maximum Deviation (Hz)	58.956	60.098
Total Duration of Excursions (sec)	14012	4682

Maui Electric Frequency Excursion Statistics December 2014		
	<59.95 Hz	>60.05 Hz
Number of Excursions	3891	2914
Maximum Duration (sec)	448	422
Maximum Deviation (Hz)	59.5731	60.2269
Total Duration of Excursions (sec)	27224	27440

Hawai'i Electric Light Frequency Excursion Statistics December 2014		
	<59.95 Hz	>60.05 Hz
Number of Excursions	2069	277
Maximum Duration (sec)	298	32
Maximum Deviation (Hz)	58.558	60.365
Total Duration of Excursions (sec)	14120	1116

HAWAIIAN ELECTRIC COMPANY, INC.
CONTINGENCY RESERVE ACTIVATION EVENTS
DECEMBER 2014

Event #	Date & Time	Frequency (Hz)			Spinning Reserve Shortfall (MW)	Duration (HH:MM)	Description
		Prior to Event	Nadir	Trigger			
1	12/09/14 17:45	59.998	59.521	N/A	-45.00	0:01	KPLP CT2 tripped offline while generating ~73 MW. RDLC activated.
2	12/14/14 06:13	59.987	59.801	N/A	-9.00	0:18	AES decreased output from ~150 MW to ~80 MW due to loss of a boiler.
3	12/19/14 18:05	59.977	59.639	N/A	-70.00	0:04	Waiau 5 tripped offline while generating ~48 MW RDLC activated.

MAUI ELECTRIC COMPANY, LIMITED
UNDERFREQUENCY LOADSHEDDING EVENTS
December 2014

				Frequency (Hz)					
Event #	IR #	Island	Date & Time	Prior to Event	Nadir	Levels UFLS Occurred	Load Shed (MW)	Duration (HH:MM)	Description
1	1014	Moloka'i	12/14/2014 2:12 PM	59.99	54.75	57.50	0.52	1:29	A frequency depression of 54.75 Hz occurred on Moloka'i due to a fault caused by a swing short.

HAWAI'I ELECTRIC LIGHT COMPANY, INC.
UNDERFREQUENCY LOAD SHEDDING EVENTS
DECEMBER 2014

Event #	Date	Time	Frequency (Hz)			Load Shed (MW)	Duration (HH:MM)	Description
			Prior to Event	Nadir	Level UFLS Occurred			
1	12/24/2014	17:55 hrs	59.99	58 41	58.50	38 35	00:27	IPP Hamakua Energy Partner's generator tripped offline unexpectedly.

HAWAIIAN ELECTRIC COMPANY, INC.
DEMAND RESPONSE EVENTS
DECEMBER 2014

Event #	Date & Time	Frequency (Hz)			Load Shed (MW)	Duration (HH:MM)	Description
		Prior to Event	Nadir	Trigger			
1	12/09/14 17:45	59.998	59.521	59 70	N/A	0:09	KPLP CT2 tripped offline while generating ~73 MW. RDLC activated.
2	12/19/14 18:05	59.977	59.639	59 70	N/A	0.02	Waiau 5 tripped offline while generating ~48 MW. RDLC activated.

Hawaiian ElectricCurtailment Report December 2014

Start Date/Time	Curtailment Set Point	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released	Estimated MWh of curtailed energy during event (1)	IPP	Reason for Curtailment
07/17/14 14.29	48 0	41.10	Ongoing	---	---	Mauka	Flicker
12/01/14 06 44	0.0	0.00	12/01/14 08:25	0	*	KREP	Replacement work
12/01/14 16:51	0 0	0 60	12/01/14 17.25	0	*	KREP	Replacement work
12/02/14 06:33	0 0	0 00	12/02/14 07:59	0	*	KREP	Replacement work
12/02/14 07:24	0 0	10 60	12/02/14 08:23	0	*	KWF	Replacement work
12/02/14 07.25	0 0	0.10	12/02/14 08:24	0	*	Makai	Replacement work
12/02/14 16 04	0.0	17.00	12/02/14 17:26	0	*	KWF	Replacement work
12/02/14 16:07	0 0	10.00	12/02/14 17:26	0	*	Makai	Replacement work
12/02/14 17:21	0 0	0.20	12/02/14 17:51	0	*	KREP	Replacement work
12/03/14 06:22	0 0	0 00	12/03/14 06:52	0	*	KREP	Replacement work
12/03/14 06:41	0 0	1.00	12/03/14 07:37	0	*	KWF	Replacement work
12/03/14 06:43	0 0	1.00	12/03/14 07:37	0	*	Makai	Replacement work
12/03/14 16:29	0 0	2.30	12/03/14 17:12	0	*	KWF	Replacement work
12/03/14 16:30	0 0	1 00	12/03/14 17:13	0	*	Makai	Replacement work
12/04/14 06:26	0.0	0 00	12/04/14 07:19	0	*	KREP	Replacement work
12/04/14 07:07	0.0	9.00	12/04/14 08:05	0	*	KWF	Replacement work
12/04/14 07:07	0.0	0.00	12/04/14 08.05	0	*	Makai	Replacement work
12/04/14 15:38	0.0	6.40	12/04/14 16:18	0	*	KWF	Replacement work
12/04/14 15:39	0.0	11 40	12/04/14 16:18	0	*	Makai	Replacement work
12/05/14 06 08	0.0	0.00	12/05/14 06:32	0	*	KREP	Replacement work
12/05/14 16:39	0.0	0 60	12/05/14 16:55	0	*	KREP	Replacement work
12/06/14 06:09	0.0	0 00	12/06/14 07:15	0	*	KREP	Replacement work
12/06/14 17:19	0.0	0 10	12/06/14 17:39	0	*	KREP	Replacement work
12/08/14 06.53	0.0	0 00	12/08/14 07:49	0	*	KREP	Maintenance work
12/09/14 05 43	0 0	0 00	12/09/14 06:23	0	*	KREP	Replacement work
12/09/14 06:38	0 0	0.00	12/09/14 07:36	0	*	KWF	Replacement work
12/09/14 06:38	0 0	0 00	12/09/14 07:36	0	*	Makai	Replacement work
12/09/14 15:40	0 0	0.00	12/09/14 16.21	0	*	KWF	Replacement work
12/09/14 15:41	0 0	0.00	12/09/14 16:21	0	*	Makai	Replacement work
12/10/14 06:31	0.0	0.00	12/10/14 07.13	0	*	KWF	Replacement work
12/10/14 06:31	0 0	0 00	12/10/14 07 14	0	*	Makai	Replacement work
12/10/14 07:02	0 0	0 00	12/10/14 07:33	0	*	KREP	Maintenance work
12/10/14 09:36	0.0	0.00	12/10/14 11:10	0	*	Mauka	Customer maintenance work
12/10/14 15:52	0.0	13.00	12/10/14 16:21	0	*	KWF	Replacement work
12/10/14 15:52	0.0	5 50	12/10/14 16:22	0	*	Makai	Replacement work
12/10/14 16:26	0.0	0 80	12/10/14 16:46	0	*	KREP	Maintenance work
12/11/14 05:15	0 0	0 00	12/11/14 05:43	0	*	KREP	Maintenance work
12/11/14 07:16	0 0	9 00	12/11/14 08 07	0	*	KWF	Replacement work
12/11/14 07:16	0 0	0 80	12/11/14 08 07	0	*	Makai	Replacement work
12/11/14 15:36	0 0	7 50	12/11/14 16:17	0	*	KWF	Replacement work
12/11/14 15:36	0.0	5.00	12/11/14 16.17	0	*	Makai	Replacement work
12/18/14 09:52	0 0	20 20	12/18/14 10:31	0	*	Mauka	Customer maintenance work
12/30/14 07:17	0.0	0.00	12/30/14 07 43	0	*	KLS2	Maintenance work
12/30/14 07.19	0.0	0.00	12/30/14 07:46	0	*	KREP	Maintenance work
12/30/14 14.41	0.0	4.50	12/30/14 15:25	0	*	KLS2	Maintenance work
12/30/14 14:43	0.0	2.40	12/30/14 15:26	0	*	KREP	Maintenance work
12/30/14 18.44	0.0	6.00	12/30/14 20:55	0	*	KWF	Maintenance work
12/30/14 18:45	0 0	7.00	12/30/14 20:56	0	*	Makai	Maintenance work
12/31/14 07:00	0 0	8.70	12/31/14 07 41	0	*	KWF	Maintenance work
12/31/14 07.00	0 0	6.50	12/31/14 07 41	0	*	Makai	Maintenance work

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

Maui Electric

RSWG Maui Curtailment Report December 2014

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
12/1/2014 0:41	0:01	KWPII	0.004	20,440	AGC MAVG - calculated
12/1/2014 0:43	0:01	KWPII	0.014	20,464	AGC MAVG - calculated
12/1/2014 0:46	0:01	KWPII	0.002	20,559	AGC MAVG - calculated
12/1/2014 0:48	0:01	KWPII	0.004	20,580	AGC MAVG - calculated
12/1/2014 0:51	0:25	KWPII	1.016	20,611	AGC MAVG - calculated
12/1/2014 1:20	0:03	KWPII	0.027	20,624	AGC MAVG - calculated
12/1/2014 1:30	3:50	KWPII	29.940	20,706	AGC MAVG - calculated
12/1/2014 1:49	0:01	AWE	0.000	6,007	AGC MAVG - calculated
12/1/2014 10:30	0:01	KWPII	0.000	20,706	AGC MAVG - calculated and Good Engineering and Operating Practices
12/1/2014 10:35	0:03	KWPII	0.004	20,706	AGC MAVG - calculated and Good Engineering and Operating Practices
12/1/2014 10:39	2:45	KWPII	12.175	20,706	AGC MAVG - calculated and Good Engineering and Operating Practices
12/1/2014 13:25	0:01	KWPII	0.003	20,706	AGC MAVG - calculated and Good Engineering and Operating Practices
12/1/2014 13:27	0:01	KWPII	0.003	20,706	AGC MAVG - calculated and Good Engineering and Operating Practices
12/1/2014 13:42	0:02	KWPII	0.008	20,706	AGC MAVG - calculated and Good Engineering and Operating Practices
12/1/2014 13:46	0:05	KWPII	0.050	20,706	AGC MAVG - calculated and Good Engineering and Operating Practices
12/1/2014 23:22	0:04	KWPII	0.021	20,706	AGC MAVG - calculated
12/2/2014 0:06	0:01	KWPII	0.010	20,648	AGC MAVG - calculated
12/2/2014 0:07	0:05	KWPII	0.022	20,661	AGC MAVG - calculated
12/2/2014 0:13	0:12	KWPII	0.151	20,706	AGC MAVG - calculated
12/2/2014 0:29	2:41	KWPII	27.531	20,705	AGC MAVG - calculated AGC MAVG - entered, AGC MAVG - entered - Excess Energy, AGC MAVG - calculated AGC MAVG - entered, AGC MAVG - entered - Excess Energy, and AGC MAVG - calculated
12/2/2014 2:27	0:11	AWE	0.510	10,273	AGC MAVG - entered - Excess Energy
12/2/2014 2:57	0:01	AWE	0.027	7,007	AGC MAVG - calculated
12/2/2014 3:02	0:01	AWE	0.012	9,233	AGC MAVG - calculated
12/2/2014 3:14	1:18	KWPII	21.782	20,403	AGC MAVG - calculated
12/2/2014 3:19	0:01	AWE	0.017	9,497	AGC MAVG - calculated
12/2/2014 3:45	0:05	AWE	0.200	13,390	AGC MAVG - calculated
12/2/2014 3:52	0:01	AWE	0.023	11,943	AGC MAVG - calculated
12/2/2014 3:55	0:02	AWE	0.058	13,507	AGC MAVG - calculated
12/2/2014 3:58	0:07	AWE	0.212	11,773	AGC MAVG - calculated
12/2/2014 4:13	0:01	AWE	0.003	10,690	AGC MAVG - calculated
12/2/2014 4:18	0:01	AWE	0.001	12,350	AGC MAVG - calculated
12/2/2014 4:33	0:55	KWPII	6.470	20,423	AGC MAVG - calculated
12/2/2014 5:31	0:02	KWPII	0.051	18,495	AGC MAVG - calculated
12/2/2014 7:40	0:38	KWPII	3.823	20,522	AGC MAVG - calculated
12/2/2014 8:28	0:01	KWPII	0.002	19,868	AGC MAVG - calculated
12/2/2014 8:54	0:03	KWPII	0.040	17,492	AGC MAVG - calculated
12/2/2014 8:58	0:02	KWPII	0.032	17,808	AGC MAVG - calculated
12/2/2014 9:09	0:29	KWPII	0.849	20,661	AGC MAVG - calculated
12/2/2014 9:39	0:02	KWPII	0.016	20,121	AGC MAVG - calculated
12/2/2014 9:45	0:03	KWPII	0.024	20,552	AGC MAVG - calculated
12/2/2014 9:49	0:01	KWPII	0.005	19,926	AGC MAVG - calculated
12/2/2014 9:52	0:01	KWPII	0.009	19,853	AGC MAVG - calculated
12/2/2014 10:31	0:07	KWPII	0.009	18,986	AGC MAVG - calculated
12/2/2014 10:34	0:02	KWPII	0.021	18,332	AGC MAVG - calculated
12/2/2014 10:38	0:01	KWPII	0.022	18,226	AGC MAVG - calculated
12/2/2014 10:40	0:01	KWPII	0.033	18,459	AGC MAVG - calculated
12/2/2014 10:52	0:01	KWPII	0.005	18,032	AGC MAVG - calculated
12/2/2014 11:45	0:01	KWPII	0.006	14,029	AGC MAVG - calculated
12/2/2014 11:50	0:01	KWPII	0.021	15,071	AGC MAVG - calculated
12/2/2014 12:03	0:01	KWPII	0.010	18,470	AGC MAVG - calculated
12/2/2014 12:05	0:02	KWPII	0.022	17,048	AGC MAVG - calculated
12/2/2014 12:26	0:04	KWPII	0.053	17,370	AGC MAVG - calculated
12/2/2014 12:31	0:08	KWPII	0.150	18,831	AGC MAVG - calculated
12/2/2014 12:40	0:03	KWPII	0.041	15,899	AGC MAVG - calculated
12/2/2014 12:44	0:02	KWPII	0.035	14,457	AGC MAVG - calculated
12/2/2014 12:47	0:06	KWPII	0.180	14,749	AGC MAVG - calculated
12/2/2014 12:56	0:02	KWPII	0.041	13,491	AGC MAVG - calculated
12/2/2014 13:07	0:08	KWPII	0.216	17,891	AGC MAVG - calculated
12/2/2014 13:24	0:02	KWPII	0.035	16,078	AGC MAVG - calculated
12/2/2014 13:41	0:02	KWPII	0.023	17,673	AGC MAVG - calculated
12/2/2014 13:46	0:16	KWPII	0.254	19,853	AGC MAVG - calculated
12/2/2014 14:08	0:02	KWPII	0.016	19,153	AGC MAVG - calculated
12/2/2014 14:12	0:01	KWPII	0.001	19,162	AGC MAVG - calculated
12/2/2014 14:14	1:42	KWPII	8.981	20,515	AGC MAVG - calculated
12/2/2014 15:58	0:10	KWPII	0.526	19,682	AGC MAVG - calculated
12/2/2014 17:59	0:01	KWPII	0.003	20,532	AGC MAVG - calculated
12/2/2014 18:01	0:01	KWPII	0.001	20,079	AGC MAVG - calculated
12/2/2014 20:13	0:04	KWPII	0.031	20,530	AGC MAVG - calculated
12/2/2014 20:30	0:02	KWPII	0.001	20,647	AGC MAVG - calculated
12/2/2014 20:38	0:02	KWPII	0.014	20,477	AGC MAVG - calculated
12/2/2014 20:44	0:01	KWPII	0.000	20,662	AGC MAVG - calculated
12/2/2014 20:49	0:01	KWPII	0.000	20,675	AGC MAVG - calculated
12/2/2014 20:56	0:01	KWPII	0.004	20,501	AGC MAVG - calculated
12/2/2014 21:18	0:02	KWPII	0.021	20,166	AGC MAVG - calculated
12/2/2014 21:20	0:02	KWPII	0.014	20,374	AGC MAVG - calculated
12/2/2014 21:44	0:03	KWPII	0.021	19,834	AGC MAVG - calculated
12/2/2014 21:49	0:02	KWPII	0.014	19,839	AGC MAVG - calculated
12/2/2014 22:26	0:58	KWPII	3.158	20,054	AGC MAVG - calculated AGC MAVG - entered, Operating Conditions on Company s System and AGC MAVG - entered - Maintaining Regulating Reserves
12/2/2014 23:28	0:01	KWPII	0.028	13,874	AGC MAVG - entered
12/2/2014 23:32	0:08	KWPII	0.226	12,003	AGC MAVG - entered
12/2/2014 23:51	0:05	KWPII	0.038	2,970	AGC MAVG - entered - Maintaining Regulating Reserves
12/2/2014 23:56	0:27	KWPII	4.663	14,214	AGC MAVG - entered - Maintaining Regulating Reserves, AGC MAVG - calculated, and AGC MAVG - entered
12/3/2014 0:02	0:12	AWE	0.263	20,400	AGC MAVG - calculated
12/3/2014 0:16	0:04	AWE	0.129	19,910	AGC MAVG - calculated
12/3/2014 0:28	0:29	KWPII	2.857	11,567	AGC MAVG - entered and AGC MAVG - entered - Maintaining Regulating Reserves
12/3/2014 1:49	0:01	KWPII	0.002	1,871	AGC MAVG - calculated
12/3/2014 1:51	0:04	KWPII	0.010	2,298	AGC MAVG - calculated
12/3/2014 2:10	0:02	AWE	0.001	20,397	AGC MAVG - calculated
12/3/2014 3:25	0:09	KWPII	0.167	4,317	AGC MAVG - calculated AGC MAVG - entered, and AGC MAVG - entered - Maintaining Regulating Reserves
12/3/2014 7:44	0:01	AWE	0.011	19,640	AGC MAVG - calculated
12/3/2014 8:11	0:04	KWPII	0.029	3,862	AGC MAVG - calculated and Good Engineering and Operating Practices
12/3/2014 8:16	0:01	KWPII	0.001	2,714	AGC MAVG - calculated and Good Engineering and Operating Practices
12/3/2014 8:04	0:11	AWE	0.398	19,900	AGC MAVG - calculated and Good Engineering and Operating Practices
12/3/2014 9:05	0:02	KWPII	0.001	0,289	AGC MAVG - calculated and Good Engineering and Operating Practices
12/3/2014 9:10	0:06	KWPII	0.073	1,876	AGC MAVG - calculated and Good Engineering and Operating Practices
12/3/2014 10:22	0:05	AWE	0.186	17,660	AGC MAVG - calculated and Good Engineering and Operating Practices
12/3/2014 10:32	0:04	AWE	0.075	18,987	AGC MAVG - calculated and Good Engineering and Operating Practices
12/3/2014 10:43	0:03	AWE	0.079	16,563	AGC MAVG - calculated and Good Engineering and Operating Practices
12/3/2014 10:57	0:04	KWPII	0.010	3,831	AGC MAVG - calculated and Good Engineering and Operating Practices
12/3/2014 11:54	0:02	KWPII	0.029	10,898	AGC MAVG - calculated and Good Engineering and Operating Practices
12/3/2014 11:57	0:18	KWPII	0.422	13,777	AGC MAVG - calculated and Good Engineering and Operating Practices
12/3/2014 12:18	0:01	KWPII	0.018	11,516	AGC MAVG - calculated and Good Engineering and Operating Practices
12/3/2014 12:43	0:02	KWPII	0.020	10,029	AGC MAVG - calculated and Good Engineering and Operating Practices
12/3/2014 12:50	0:01	KWPII	0.006	11,826	AGC MAVG - calculated, Good Engineering and Operating Practices, and Testing
12/3/2014 13:11	0:04	KWPII	0.073	11,456	AGC MAVG - calculated, Good Engineering and Operating Practices, and Testing
12/3/2014 13:17	0:32	KWPII	1.098	15,978	AGC MAVG - calculated, Good Engineering and Operating Practices, and Testing
12/3/2014 15:08	0:12	KWPII	0.279	18,518	AGC MAVG - calculated and Good Engineering and Operating Practices
12/3/2014 15:22	0:14	KWPII	0.279	18,636	AGC MAVG - calculated and Good Engineering and Operating Practices
12/3/2014 15:37	0:27	KWPII	0.782	19,789	AGC MAVG - calculated and Good Engineering and Operating Practices
12/3/2014 16:05	0:11	KWPII	0.175	20,030	AGC MAVG - calculated
12/3/2014 16:17	0:01	KWPII	0.010	20,403	AGC MAVG - calculated
12/3/2014 16:19	0:02	KWPII	0.004	20,461	AGC MAVG - calculated

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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
12/3/2014 18:25	0:02	KWPII	0.015	20.333	AGC MAVG - calculated
12/3/2014 18:32	0:02	KWPII	0.001	20.336	AGC MAVG - calculated
12/3/2014 18:35	0:31	KWPII	1.053	20.676	AGC MAVG - calculated
12/3/2014 18:39	0:07	KWPII	0.064	20.248	AGC MAVG - calculated
12/3/2014 18:48	0:03	KWPII	0.022	19.564	AGC MAVG - calculated
12/3/2014 18:53	0:01	KWPII	0.005	18.931	AGC MAVG - calculated
12/3/2014 18:57	0:01	KWPII	0.001	19.040	AGC MAVG - calculated
12/3/2014 19:02	0:03	KWPII	0.006	19.617	AGC MAVG - calculated
12/3/2014 19:06	0:02	KWPII	0.021	19.732	AGC MAVG - calculated
12/3/2014 19:10	0:04	KWPII	0.018	19.482	AGC MAVG - calculated
12/3/2014 20:13	0:02	KWPII	0.005	19.242	AGC MAVG - calculated
12/3/2014 20:17	0:01	KWPII	0.001	19.589	AGC MAVG - calculated
12/3/2014 20:20	0:03	KWPII	0.003	20.098	AGC MAVG - calculated
12/3/2014 20:44	0:04	KWPII	0.010	20.308	AGC MAVG - calculated
12/3/2014 20:51	0:03	KWPII	0.038	20.336	AGC MAVG - calculated
12/3/2014 21:01	0:02	KWPII	0.012	19.875	AGC MAVG - calculated
12/3/2014 21:54	0:01	KWPII	0.000	20.046	AGC MAVG - calculated
12/3/2014 22:14	0:01	KWPII	0.001	20.093	AGC MAVG - calculated
12/3/2014 22:16	0:01	KWPII	0.000	20.083	AGC MAVG - calculated
12/3/2014 22:19	0:03	KWPII	0.010	20.020	AGC MAVG - calculated
12/3/2014 22:25	0:01	KWPII	0.002	20.508	AGC MAVG - calculated
12/4/2014 0:23	0:01	KWPII	0.004	19.729	AGC MAVG - calculated
12/4/2014 0:29	0:01	KWPII	0.005	19.192	AGC MAVG - calculated
12/4/2014 0:33	0:02	KWPII	0.023	20.052	AGC MAVG - calculated
12/4/2014 0:42	0:27	KWPII	1.213	19.646	AGC MAVG - calculated
12/4/2014 1:26	0:01	KWPII	0.009	17.106	AGC MAVG - calculated
12/4/2014 1:28	3:28	KWPII	35.951	20.560	AGC MAVG - calculated, AGC MAVG - entered, AGC MAVG - entered - Maintaining Regulating Reserves, and AGC MAVG -
12/4/2014 4:55	0:01	AWE	0.000	0.003	AGC MAVG - calculated
12/4/2014 5:03	0:07	KWPII	0.195	20.219	AGC MAVG - calculated
12/4/2014 5:11	0:27	KWPII	0.877	20.662	AGC MAVG - calculated
12/4/2014 5:41	0:02	KWPII	0.029	20.411	AGC MAVG - calculated
12/4/2014 8:13	0:03	KWPII	0.058	16.802	AGC MAVG - calculated
12/4/2014 8:17	0:17	KWPII	0.574	19.926	AGC MAVG - calculated
12/4/2014 8:37	0:01	KWPII	0.005	20.252	AGC MAVG - calculated
12/4/2014 8:40	0:03	KWPII	0.028	19.969	AGC MAVG - calculated
12/4/2014 8:48	0:12	KWPII	0.191	20.515	AGC MAVG - calculated
12/4/2014 8:59	0:11	KWPII	0.154	20.529	AGC MAVG - calculated
12/4/2014 10:48	0:06	KWPII	0.116	18.548	AGC MAVG - calculated
12/4/2014 10:57	0:49	KWPII	3.314	19.655	AGC MAVG - calculated
12/4/2014 11:54	0:03	KWPII	0.073	18.478	AGC MAVG - calculated
12/4/2014 11:58	0:02	KWPII	0.035	17.862	AGC MAVG - calculated
12/4/2014 13:20	0:02	KWPII	0.054	14.868	AGC MAVG - calculated
12/4/2014 13:55	0:01	KWPII	0.001	17.924	AGC MAVG - calculated and Testing
12/4/2014 14:39	0:05	KWPII	0.116	19.308	AGC MAVG - calculated and Testing
12/4/2014 14:51	0:06	KWPII	0.121	19.182	AGC MAVG - calculated and Testing
12/4/2014 15:20	0:01	KWPII	0.010	14.461	AGC MAVG - calculated
12/4/2014 15:45	0:01	KWPII	0.001	16.866	AGC MAVG - calculated
12/4/2014 15:55	0:02	KWPII	0.011	17.122	AGC MAVG - calculated
12/4/2014 16:02	0:27	KWPII	0.944	19.431	AGC MAVG - calculated
12/4/2014 16:30	0:01	KWPII	0.003	19.043	AGC MAVG - calculated
12/4/2014 16:33	0:01	KWPII	0.008	18.978	AGC MAVG - calculated
12/4/2014 16:38	0:05	KWPII	0.098	18.025	AGC MAVG - calculated
12/4/2014 16:44	0:01	KWPII	0.013	18.082	AGC MAVG - calculated
12/4/2014 16:50	0:01	KWPII	0.014	18.298	AGC MAVG - calculated
12/4/2014 17:39	0:01	KWPII	0.012	17.849	AGC MAVG - calculated
12/4/2014 18:01	0:08	KWPII	0.053	19.810	AGC MAVG - calculated and Testing
12/4/2014 18:12	0:02	KWPII	0.014	20.072	AGC MAVG - calculated
12/4/2014 18:17	0:03	KWPII	0.012	20.162	AGC MAVG - calculated
12/4/2014 18:28	0:01	KWPII	0.001	20.225	AGC MAVG - calculated
12/4/2014 18:39	0:01	KWPII	0.003	20.556	AGC MAVG - calculated
12/4/2014 18:42	0:02	KWPII	0.009	20.553	AGC MAVG - calculated
12/4/2014 18:49	0:01	KWPII	0.000	20.570	AGC MAVG - calculated
12/4/2014 18:54	0:01	KWPII	0.001	20.536	AGC MAVG - calculated
12/4/2014 19:08	0:13	KWPII	0.058	20.292	AGC MAVG - calculated
12/4/2014 20:41	0:10	KWPII	0.081	20.577	AGC MAVG - calculated
12/4/2014 21:54	0:13	KWPII	0.811	20.248	AGC MAVG - calculated
12/5/2014 1:00	0:04	KWPII	0.071	11.660	AGC MAVG - calculated
12/5/2014 1:25	0:57	KWPII	12.446	18.981	AGC MAVG - calculated, AGC MAVG - entered, Operating Conditions on Company's System, AGC MAVG - entered - Excess Energy, and AGC MAVG - calculated
12/5/2014 1:29	0:49	AWE	3.456	21.000	AGC MAVG - calculated, AGC MAVG - entered, Operating Conditions on Company's System, AGC MAVG - entered - Excess Energy, and AGC MAVG - calculated
12/5/2014 2:25	0:01	KWPII	0.027	9.050	AGC MAVG - calculated
12/5/2014 2:41	0:18	KWPII	3.149	17.028	AGC MAVG - calculated, AGC MAVG - entered, AGC MAVG - entered - Excess Energy, and AGC MAVG - calculated
12/5/2014 2:47	0:04	AWE	0.025	20.840	AGC MAVG - calculated, AGC MAVG - entered, and AGC MAVG - entered - Excess Energy
12/5/2014 1:31	0:19	KWPII	0.770	14.887	AGC MAVG - calculated
12/5/2014 1:52	0:31	KWPII	1.500	15.088	AGC MAVG - calculated
12/5/2014 2:25	0:02	KWPII	0.011	12.877	AGC MAVG - calculated
12/5/2014 2:28	0:03	KWPII	0.040	12.797	AGC MAVG - calculated
12/5/2014 2:44	1:15	KWPII	14.182	18.386	AGC MAVG - calculated
12/5/2014 3:31	0:01	KWP	0.004	22.758	AGC MAVG - calculated
12/5/2014 3:36	0:01	AWE	0.000	0.023	AGC MAVG - calculated
12/5/2014 4:01	1:53	KWPII	18.118	20.178	AGC MAVG - calculated
12/5/2014 5:24	0:11	KWPII	0.203	20.099	AGC MAVG - calculated and Operating Conditions on Company's System
12/5/2014 6:36	0:01	KWPII	0.008	19.071	AGC MAVG - calculated and Operating Conditions on Company's System
12/5/2014 6:52	0:01	KWPII	0.009	18.999	AGC MAVG - calculated and Operating Conditions on Company's System
12/5/2014 6:54	0:01	KWPII	0.004	19.588	AGC MAVG - calculated and Operating Conditions on Company's System
12/5/2014 7:44	0:01	KWPII	0.007	19.877	AGC MAVG - calculated and Operating Conditions on Company's System
12/5/2014 7:50	0:05	KWPII	0.036	20.436	AGC MAVG - calculated and Operating Conditions on Company's System
12/5/2014 8:12	0:01	KWPII	0.007	20.160	AGC MAVG - calculated and Operating Conditions on Company's System
12/5/2014 8:14	0:01	KWPII	0.002	20.176	AGC MAVG - calculated and Operating Conditions on Company's System
12/5/2014 8:16	0:02	KWPII	0.009	20.381	AGC MAVG - calculated and Operating Conditions on Company's System
12/5/2014 8:22	0:07	KWPII	0.043	20.443	AGC MAVG - calculated and Operating Conditions on Company's System
12/5/2014 8:36	0:05	KWPII	0.072	20.206	AGC MAVG - calculated and Operating Conditions on Company's System
12/5/2014 8:55	0:01	KWPII	0.000	20.207	AGC MAVG - calculated and Operating Conditions on Company's System
12/5/2014 11:15	0:01	AWE	0.000	0.010	AGC MAVG - calculated and Operating Conditions on Company's System
12/5/2014 22:46	0:03	KWPII	0.062	15.509	AGC MAVG - calculated
12/5/2014 22:55	0:01	KWPII	0.008	16.576	AGC MAVG - calculated
12/5/2014 23:52	0:50	KWPII	2.434	17.657	AGC MAVG - calculated
12/7/2014 0:55	0:31	KWPII	1.912	16.009	AGC MAVG - calculated
12/7/2014 1:27	0:01	KWPII	0.017	10.661	AGC MAVG - calculated
12/7/2014 1:29	0:07	KWPII	0.187	11.130	AGC MAVG - calculated
12/7/2014 1:37	0:09	KWPII	0.257	11.883	AGC MAVG - calculated
12/7/2014 5:53	1:02	KWPII	5.744	19.408	AGC MAVG - calculated
12/7/2014 7:08	0:01	KWPII	0.004	17.410	AGC MAVG - calculated
12/10/2014 11:04	0:01	KWP	0.000	0.001	AGC MAVG - calculated
12/10/2014 22:10	0:01	KWPII	0.004	17.430	AGC MAVG - calculated
12/11/2014 0:32	0:01	KWPII	0.020	17.173	AGC MAVG - calculated
12/11/2014 0:34	0:07	KWPII	0.132	17.347	AGC MAVG - calculated
12/11/2014 0:45	0:01	KWPII	0.001	14.498	AGC MAVG - calculated
12/11/2014 0:47	0:01	KWPII	0.015	14.423	AGC MAVG - calculated
12/11/2014 0:52	0:02	KWPII	0.093	15.488	AGC MAVG - calculated
12/11/2014 0:55	0:01	KWPII	0.023	14.495	AGC MAVG - calculated
12/11/2014 0:58	0:01	KWPII	0.003	12.865	AGC MAVG - calculated
12/11/2014 2:56	0:04	KWPII	0.085	17.532	AGC MAVG - calculated

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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
12/11/2014 3:19	0:59	KWPII	6.290	20.815	AGC MAVG - calculated
12/11/2014 4:19	0:42	KWPII	2.134	20.495	AGC MAVG - calculated
12/11/2014 11:09	0:01	KWPII	0.001	20.647	AGC MAVG - calculated and Operating Conditions on Company's System
12/11/2014 11:13	0:23	KWPII	3.402	20.707	AGC MAVG - calculated and Operating Conditions on Company's System
12/11/2014 11:37	0:01	KWPII	0.001	20.690	AGC MAVG - calculated and Operating Conditions on Company's System
12/11/2014 11:47	0:42	KWPII	1.208	20.706	AGC MAVG - calculated and Operating Conditions on Company's System
12/12/2014 18:48	0:01	KWPII	0.014	17.078	AGC MAVG - calculated
12/12/2014 20:28	0:02	KWPII	0.006	19.100	AGC MAVG - calculated
12/12/2014 20:31	0:01	KWPII	0.002	19.659	AGC MAVG - calculated
12/12/2014 21:06	0:02	KWPII	0.003	20.383	AGC MAVG - calculated
12/12/2014 21:52	0:01	KWPII	0.002	19.860	AGC MAVG - calculated
12/12/2014 23:43	0:04	KWPII	0.096	18.400	AGC MAVG - calculated
12/12/2014 23:50	0:20	KWPII	0.698	20.049	AGC MAVG - calculated
12/13/2014 0:11	0:14	KWPII	0.468	19.879	AGC MAVG - calculated
12/13/2014 0:26	4:21	KWPII	47.130	20.120	AGC MAVG - calculated
12/13/2014 3:32	0:01	KWP	0.025	25.301	AGC MAVG - calculated
12/13/2014 4:49	1:39	KWPII	15.319	20.429	AGC MAVG - calculated
12/13/2014 6:29	0:44	KWPII	1.839	20.585	AGC MAVG - calculated
12/13/2014 7:19	0:02	KWPII	0.005	20.462	AGC MAVG - calculated
12/13/2014 9:34	0:09	KWPII	0.068	20.708	AGC MAVG - calculated
12/13/2014 9:44	0:01	KWPII	0.007	20.709	AGC MAVG - calculated
12/13/2014 10:00	0:07	KWPII	0.097	20.708	AGC MAVG - calculated
12/13/2014 10:09	0:01	KWPII	0.005	20.708	AGC MAVG - calculated
12/13/2014 10:18	2:42	KWPII	18.751	20.708	AGC MAVG - calculated
12/13/2014 13:00	0:32	KWPII	1.539	20.708	AGC MAVG - calculated
12/13/2014 15:58	0:01	KWPII	0.000	20.708	AGC MAVG - calculated and Good Engineering and Operating Practices
12/13/2014 16:02	0:01	KWPII	0.000	20.708	AGC MAVG - calculated and Good Engineering and Operating Practices
12/13/2014 16:18	0:04	KWPII	0.029	20.708	AGC MAVG - calculated and Good Engineering and Operating Practices
12/13/2014 17:25	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/13/2014 17:27	0:01	AWE	0.000	0.003	AGC MAVG - calculated
12/13/2014 17:31	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/13/2014 17:35	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/13/2014 17:39	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/13/2014 17:58	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/13/2014 18:02	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/13/2014 18:08	0:02	KWPII	0.001	20.708	AGC MAVG - calculated
12/13/2014 18:11	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/13/2014 18:13	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/13/2014 18:16	0:01	KWPII	0.001	20.708	AGC MAVG - calculated
12/13/2014 18:20	0:01	KWPII	0.001	20.708	AGC MAVG - calculated
12/13/2014 18:22	0:01	KWPII	0.001	20.708	AGC MAVG - calculated
12/13/2014 23:55	0:01	AWE	0.000	0.010	AGC MAVG - calculated
12/14/2014 0:39	0:30	KWPII	0.447	20.708	AGC MAVG - calculated
12/14/2014 1:17	0:03	KWPII	0.048	20.708	AGC MAVG - calculated
12/14/2014 1:32	0:42	KWPII	2.200	20.708	AGC MAVG - calculated and Operating Conditions on Company's System
12/14/2014 2:16	2:41	KWPII	12.717	20.708	AGC MAVG - calculated and Operating Conditions on Company's System
12/14/2014 5:04	0:03	KWPII	0.050	20.708	AGC MAVG - calculated
12/14/2014 6:04	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/14/2014 6:08	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/14/2014 6:12	0:01	KWPII	0.001	20.708	AGC MAVG - calculated
12/14/2014 6:21	0:02	KWPII	0.001	20.708	AGC MAVG - calculated
12/14/2014 6:25	0:24	KWPII	0.016	20.708	AGC MAVG - calculated
12/14/2014 7:14	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/14/2014 7:18	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/14/2014 7:22	0:02	KWPII	0.001	20.708	AGC MAVG - calculated
12/14/2014 7:27	0:01	KWPII	0.001	20.708	AGC MAVG - calculated
12/14/2014 7:29	0:04	KWPII	0.001	20.708	AGC MAVG - calculated and Good Engineering and Operating Practices
12/14/2014 8:49	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/14/2014 8:56	0:02	KWPII	0.000	20.708	AGC MAVG - calculated
12/14/2014 11:52	0:03	KWPII	0.029	17.714	AGC MAVG - calculated
12/14/2014 13:56	0:06	KWPII	0.089	20.708	AGC MAVG - calculated
12/14/2014 14:08	0:02	KWPII	0.001	20.708	AGC MAVG - calculated
12/14/2014 14:14	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/14/2014 14:18	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/14/2014 14:26	0:01	KWPII	0.001	20.708	AGC MAVG - calculated
12/14/2014 14:36	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/14/2014 14:38	0:01	KWPII	0.001	20.708	AGC MAVG - calculated
12/14/2014 14:40	0:02	KWPII	0.001	20.708	AGC MAVG - calculated
12/14/2014 14:45	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/14/2014 15:13	0:02	KWPII	0.001	20.708	AGC MAVG - calculated and Good Engineering and Operating Practices
12/14/2014 15:20	0:07	KWPII	0.004	20.708	AGC MAVG - calculated and Good Engineering and Operating Practices
12/14/2014 15:32	0:04	KWPII	0.002	20.708	AGC MAVG - calculated and Good Engineering and Operating Practices
12/14/2014 15:37	0:02	KWPII	0.002	20.708	AGC MAVG - calculated and Good Engineering and Operating Practices
12/14/2014 15:45	0:01	KWPII	0.001	20.708	AGC MAVG - calculated and Good Engineering and Operating Practices
12/14/2014 15:49	0:03	KWPII	0.002	20.708	AGC MAVG - calculated and Good Engineering and Operating Practices
12/14/2014 15:53	0:05	KWPII	0.005	20.708	AGC MAVG - calculated
12/14/2014 16:09	0:04	KWPII	0.003	20.708	AGC MAVG - calculated and Good Engineering and Operating Practices
12/14/2014 16:15	0:04	KWPII	0.003	20.708	AGC MAVG - calculated
12/14/2014 16:20	0:01	KWPII	0.001	20.708	AGC MAVG - calculated
12/14/2014 16:22	0:04	KWPII	0.004	20.708	AGC MAVG - calculated
12/14/2014 23:37	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/14/2014 23:51	0:37	KWPII	3.528	20.708	AGC MAVG - calculated
12/15/2014 0:52	0:13	KWPII	0.338	20.708	AGC MAVG - calculated
12/15/2014 1:15	1:19	KWPII	11.679	20.708	AGC MAVG - calculated
12/15/2014 2:36	0:32	KWPII	7.211	19.211	AGC MAVG - calculated
12/15/2014 3:10	0:24	KWPII	2.854	20.708	AGC MAVG - calculated
12/15/2014 3:35	0:02	KWPII	0.018	20.708	AGC MAVG - calculated
12/15/2014 3:48	1:31	KWPII	13.092	20.708	AGC MAVG - calculated
12/15/2014 6:20	0:02	KWPII	0.002	20.708	AGC MAVG - calculated
12/15/2014 6:37	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/15/2014 7:21	0:06	KWPII	0.057	20.708	AGC MAVG - calculated
12/15/2014 7:27	0:01	KWPII	0.001	20.708	AGC MAVG - calculated
12/15/2014 7:30	0:01	KWPII	0.001	20.708	AGC MAVG - calculated
12/15/2014 7:35	0:07	KWPII	0.003	20.708	AGC MAVG - calculated
12/15/2014 7:57	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/15/2014 8:12	0:02	KWPII	0.000	20.708	AGC MAVG - calculated
12/15/2014 8:34	0:03	KWPII	0.002	20.708	AGC MAVG - calculated
12/15/2014 8:54	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/15/2014 9:05	0:07	KWPII	0.001	20.708	AGC MAVG - calculated
12/15/2014 9:11	0:05	KWPII	0.002	20.708	AGC MAVG - calculated
12/15/2014 9:24	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/15/2014 9:30	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/15/2014 9:33	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/15/2014 9:39	0:01	KWPII	0.001	20.708	AGC MAVG - calculated
12/15/2014 9:48	0:01	KWPII	0.001	20.708	AGC MAVG - calculated
12/15/2014 9:50	0:02	KWPII	0.001	20.708	AGC MAVG - calculated
12/15/2014 9:53	0:01	KWPII	0.001	20.708	AGC MAVG - calculated
12/15/2014 9:56	0:03	KWPII	0.003	20.708	AGC MAVG - calculated AGC MAVG - entered Operating Conditions on Company's System, and AGC MAVG - entered - Maintaining Regulating Reserves
12/15/2014 10:00	0:04	KWPII	0.037	20.708	AGC MAVG - entered, Operating Conditions on Company's System, and AGC MAVG - entered - Maintaining Regulating Reserves
12/15/2014 10:17	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/15/2014 10:21	0:04	KWPII	0.002	20.708	AGC MAVG - entered
12/15/2014 10:34	0:02	KWPII	0.000	20.708	AGC MAVG - entered
12/15/2014 10:37	0:01	KWPII	0.001	20.708	AGC MAVG - entered

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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
12/15/2014 10:43	0:01	KWPII	0.001	20,708	AGC MAVG - entered
12/15/2014 10:46	0:02	KWPII	0.001	20,708	AGC MAVG - entered
12/15/2014 10:58	0:01	KWPII	0.000	20,708	AGC MAVG - entered
12/15/2014 11:03	0:11	KWPII	0.204	20,708	AGC MAVG - entered - Maintaining Regulating Reserves
12/15/2014 11:18	0:03	KWPII	0.031	20,708	AGC MAVG - calculated
12/15/2014 11:22	0:07	KWPII	0.032	20,708	AGC MAVG - calculated and Operating Conditions on Company's System
12/15/2014 11:30	0:02	KWPII	0.002	20,708	AGC MAVG - calculated and Operating Conditions on Company's System
12/15/2014 11:34	0:02	KWPII	0.001	20,708	AGC MAVG - calculated and Operating Conditions on Company's System
12/15/2014 11:38	0:01	KWPII	0.000	20,708	AGC MAVG - calculated and Operating Conditions on Company's System
12/15/2014 11:47	0:06	KWPII	0.003	20,708	AGC MAVG - calculated and Operating Conditions on Company's System
12/15/2014 11:54	2:59	KWPII	11.503	20,708	AGC MAVG - calculated, AGC MAVG - entered, and AGC MAVG - entered - Maintaining Regulating Reserves
12/15/2014 15:18	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 15:21	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 15:27	0:01	KWPII	0.002	20,708	AGC MAVG - calculated
12/15/2014 15:35	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 15:37	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 15:42	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 15:45	0:02	KWPII	0.001	20,707	AGC MAVG - calculated
12/15/2014 15:48	0:06	KWPII	0.006	20,708	AGC MAVG - calculated
12/15/2014 15:59	0:02	KWPII	0.003	20,708	AGC MAVG - calculated
12/15/2014 16:03	0:01	KWPII	0.000	20,707	AGC MAVG - calculated
12/15/2014 16:05	0:01	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 16:15	0:02	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 16:21	0:02	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 16:24	0:02	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 16:33	0:02	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 16:46	0:01	KWPII	0.002	20,708	AGC MAVG - calculated
12/15/2014 16:49	0:01	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 16:54	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 16:56	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 17:02	0:01	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 17:15	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 17:18	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 17:20	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 17:22	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 17:26	0:02	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 17:35	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 17:51	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 18:02	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 18:09	0:01	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 18:18	0:03	KWPII	0.002	20,708	AGC MAVG - calculated
12/15/2014 18:24	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 18:27	0:01	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 18:30	0:02	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 18:34	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 18:36	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 18:39	0:07	KWPII	0.005	20,708	AGC MAVG - calculated
12/15/2014 18:51	0:04	KWPII	0.002	20,708	AGC MAVG - calculated
12/15/2014 18:56	0:02	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 18:59	0:04	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 19:05	0:02	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 19:10	0:02	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 19:14	0:02	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 19:20	0:01	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 19:25	0:02	KWPII	0.002	20,708	AGC MAVG - calculated
12/15/2014 19:28	0:02	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 19:31	0:01	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 19:33	0:01	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 19:35	0:03	KWPII	0.003	20,708	AGC MAVG - calculated
12/15/2014 19:40	0:01	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 19:42	0:02	KWPII	0.002	20,708	AGC MAVG - calculated
12/15/2014 19:46	0:01	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 19:54	0:04	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 20:04	0:02	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 20:12	0:04	KWPII	0.004	20,708	AGC MAVG - calculated
12/15/2014 20:20	0:01	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 20:25	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 20:30	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/15/2014 20:32	0:03	KWPII	0.005	20,708	AGC MAVG - calculated
12/15/2014 20:39	0:01	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 20:44	0:03	KWPII	0.004	20,708	AGC MAVG - calculated
12/15/2014 20:57	0:01	KWPII	0.001	20,708	AGC MAVG - calculated
12/15/2014 20:59	0:01	KWPII	0.001	20,358	AGC MAVG - calculated
12/15/2014 21:52	0:03	KWPII	0.028	17,714	AGC MAVG - calculated
12/15/2014 22:21	6:56	KWPII	131.504	20,708	AGC MAVG - calculated
12/15/2014 22:55	0:16	AWE	0.054	20,873	AGC MAVG - calculated
12/15/2014 23:12	0:02	AWE	0.003	10,980	AGC MAVG - calculated
12/15/2014 23:28	1:45	AWE	0.332	20,950	AGC MAVG - calculated and Operating Conditions on Company's System
12/16/2014 1:14	0:29	AWE	0.036	14,023	AGC MAVG - calculated and Operating Conditions on Company's System
12/16/2014 1:44	0:06	AWE	0.007	11,567	AGC MAVG - calculated and Operating Conditions on Company's System
12/16/2014 1:51	0:06	AWE	0.006	11,373	AGC MAVG - calculated and Operating Conditions on Company's System
12/16/2014 1:58	0:02	AWE	0.001	11,807	AGC MAVG - calculated
12/16/2014 2:03	0:05	AWE	0.008	13,057	AGC MAVG - calculated
12/16/2014 2:09	0:02	AWE	0.003	12,087	AGC MAVG - calculated
12/16/2014 2:12	0:03	AWE	0.004	12,153	AGC MAVG - calculated
12/16/2014 2:18	0:06	AWE	0.008	12,113	AGC MAVG - calculated
12/16/2014 2:25	0:07	AWE	0.003	12,180	AGC MAVG - calculated
12/16/2014 2:28	0:05	AWE	0.008	11,703	AGC MAVG - calculated
12/16/2014 2:35	0:05	AWE	0.005	11,660	AGC MAVG - calculated
12/16/2014 2:43	0:08	AWE	0.010	11,043	AGC MAVG - calculated
12/16/2014 2:52	0:06	AWE	0.004	10,867	AGC MAVG - calculated
12/16/2014 2:59	0:08	AWE	0.008	10,903	AGC MAVG - calculated
12/16/2014 3:09	0:06	AWE	0.008	12,270	AGC MAVG - calculated
12/16/2014 3:18	0:07	AWE	0.010	12,307	AGC MAVG - calculated
12/16/2014 3:24	0:10	AWE	0.011	12,220	AGC MAVG - calculated
12/16/2014 3:35	0:18	AWE	0.019	12,803	AGC MAVG - calculated
12/16/2014 3:54	0:14	AWE	0.016	15,417	AGC MAVG - calculated
12/16/2014 4:10	0:43	AWE	0.138	19,607	AGC MAVG - calculated
12/16/2014 5:00	0:07	AWE	0.006	21,000	AGC MAVG - calculated
12/16/2014 5:17	0:58	KWPII	8.807	20,708	AGC MAVG - calculated
12/16/2014 6:16	0:01	KWPII	0.000	20,708	AGC MAVG - calculated
12/16/2014 7:46	0:12	KWPII	0.158	19,211	AGC MAVG - calculated, AGC MAVG - entered, and Operating Conditions on Company's System
12/16/2014 11:10	0:02	KWPII	0.007	17,701	AGC MAVG - entered, Operating Conditions on Company's System, and Testing
12/16/2014 11:14	0:02	KWPII	0.006	17,623	AGC MAVG - entered, Operating Conditions on Company's System, and Testing
12/16/2014 11:17	0:02	KWPII	0.002	17,703	AGC MAVG - entered, Operating Conditions on Company's System, and Testing
12/16/2014 11:20	0:03	KWPII	0.012	17,705	AGC MAVG - entered, Operating Conditions on Company's System, and Testing
12/16/2014 11:33	0:03	KWPII	0.030	19,211	AGC MAVG - entered, Operating Conditions on Company's System, Testing, and AGC MAVG - entered - Maintaining Regulating Reserves
12/16/2014 11:36	0:52	KWPII	2.301	19,211	AGC MAVG - entered, Operating Conditions on Company's System, Testing, and AGC MAVG - entered - Maintaining Regulating Reserves
12/16/2014 12:43	0:01	KWPII	0.004	18,150	AGC MAVG - entered and Operating Conditions on Company's System
12/16/2014 12:49	0:03	KWPII	0.037	17,814	AGC MAVG - calculated
12/16/2014 12:55	0:01	KWPII	0.021	17,137	AGC MAVG - calculated
12/16/2014 12:58	0:02	KWPII	0.027	18,281	AGC MAVG - calculated

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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
12/16/2014 13:04	0:01	KWPII	0.013	17.147	AGC MAVG - calculated
12/16/2014 13:18	0:02	KWPII	0.047	11.636	AGC MAVG - calculated
12/16/2014 13:28	0:01	KWPII	0.012	12.873	AGC MAVG - calculated and Testing
12/16/2014 13:31	0:42	KWPII	1.073	14.136	AGC MAVG - calculated and Testing
12/16/2014 14:18	0:01	KWPII	0.000	8.494	AGC MAVG - calculated and Testing
12/16/2014 14:20	0:46	KWPII	1.053	13.278	AGC MAVG - calculated and Testing
12/16/2014 15:08	0:24	KWPII	0.256	9.715	AGC MAVG - calculated and Testing
12/16/2014 15:33	0:13	KWPII	0.233	7.394	AGC MAVG - calculated and Testing
12/16/2014 15:40	0:10	AWE	0.019	21.000	AGC MAVG - calculated and Testing
12/16/2014 15:53	0:03	KWPII	0.022	2.289	AGC MAVG - calculated and Testing
12/16/2014 16:53	0:03	AWE	0.006	21.000	AGC MAVG - calculated and Testing
12/16/2014 16:57	0:02	AWE	0.007	21.000	AGC MAVG - calculated and Testing
12/16/2014 16:01	0:01	AWE	0.000	21.000	AGC MAVG - calculated and Testing
12/16/2014 16:05	0:08	KWPII	0.032	9.844	AGC MAVG - calculated and Testing
12/16/2014 16:13	0:06	KWPII	0.061	12.555	AGC MAVG - calculated and Testing
12/16/2014 16:22	0:23	KWPII	0.457	15.969	AGC MAVG - calculated and Testing
12/16/2014 16:47	0:18	KWPII	0.246	16.309	AGC MAVG - calculated
12/16/2014 17:06	0:19	KWPII	0.389	16.578	AGC MAVG - calculated
12/16/2014 17:27	0:04	KWPII	0.030	4.751	AGC MAVG - calculated
12/16/2014 17:31	0:01	AWE	0.001	21.000	AGC MAVG - calculated
12/16/2014 17:33	0:08	KWPII	0.065	2.260	AGC MAVG - calculated
12/16/2014 17:33	0:58	AWE	0.120	21.000	AGC MAVG - calculated
12/16/2014 18:04	0:01	KWPII	0.003	0.354	AGC MAVG - calculated
12/16/2014 18:07	0:04	KWPII	0.020	1.026	AGC MAVG - calculated
12/16/2014 18:15	0:04	KWPII	0.022	1.770	AGC MAVG - calculated
12/16/2014 18:24	0:02	KWPII	0.005	1.321	AGC MAVG - calculated
12/16/2014 18:30	0:21	KWPII	0.417	13.697	AGC MAVG - calculated
12/16/2014 18:55	0:18	KWPII	0.568	18.722	AGC MAVG - calculated
12/16/2014 19:14	0:49	KWPII	0.659	18.880	AGC MAVG - calculated
12/16/2014 20:05	0:10	KWPII	0.202	16.589	AGC MAVG - calculated
12/16/2014 20:17	0:05	KWPII	0.022	14.451	AGC MAVG - calculated
12/16/2014 20:24	0:37	KWPII	0.572	18.760	AGC MAVG - calculated
12/16/2014 21:02	0:22	KWPII	0.267	18.822	AGC MAVG - calculated
12/16/2014 21:28	0:04	KWPII	0.021	19.188	AGC MAVG - calculated
12/16/2014 21:42	0:01	KWPII	0.008	18.858	AGC MAVG - calculated
12/16/2014 21:45	0:18	KWPII	0.256	18.884	AGC MAVG - calculated
12/16/2014 22:10	0:01	KWPII	0.002	19.050	AGC MAVG - calculated
12/16/2014 22:17	0:29	KWPII	1.224	19.123	AGC MAVG - calculated
12/16/2014 22:47	3:01	KWPII	18.420	19.130	AGC MAVG - calculated
12/17/2014 7:44	0:01	KWP	0.000	0.014	AGC MAVG - calculated
12/17/2014 7:49	0:19	AWE	0.023	16.057	AGC MAVG - calculated
12/17/2014 8:09	0:06	AWE	0.005	15.737	AGC MAVG - calculated
12/17/2014 8:12	0:03	KWPII	0.007	0.267	AGC MAVG - calculated
12/17/2014 8:41	0:04	KWPII	0.031	5.911	AGC MAVG - calculated
12/17/2014 8:51	0:01	KWPII	0.000	6.284	AGC MAVG - calculated
12/17/2014 8:53	2:18	KWPII	2.822	14.170	AGC MAVG - calculated and Testing
12/17/2014 11:12	0:06	KWPII	0.095	8.148	AGC MAVG - calculated and Testing
12/17/2014 11:21	0:30	KWPII	0.460	11.418	AGC MAVG - calculated and Testing
12/17/2014 11:55	0:11	KWPII	0.191	10.150	AGC MAVG - calculated and Testing
12/17/2014 12:08	0:03	KWPII	0.017	5.418	AGC MAVG - calculated and Testing
12/17/2014 12:12	0:07	KWPII	0.057	5.433	AGC MAVG - calculated and Testing
12/17/2014 12:24	0:04	KWPII	0.024	5.443	AGC MAVG - calculated and Testing
12/17/2014 12:31	0:01	KWPII	0.000	6.089	AGC MAVG - calculated and Testing
12/17/2014 12:35	0:04	KWPII	0.028	7.497	AGC MAVG - calculated and Testing
12/17/2014 12:40	0:02	KWPII	0.004	7.481	AGC MAVG - calculated and Testing
12/17/2014 12:44	0:14	KWPII	0.240	12.173	AGC MAVG - calculated and Testing
12/17/2014 12:59	0:40	KWPII	0.547	10.281	AGC MAVG - calculated and Testing
12/17/2014 13:41	0:01	KWPII	0.000	4.551	AGC MAVG - calculated and Testing
12/17/2014 13:47	0:12	KWPII	0.102	8.856	AGC MAVG - calculated and Testing
12/17/2014 14:00	0:14	KWPII	0.260	12.097	AGC MAVG - calculated and Testing
12/17/2014 14:15	2:43	KWPII	21.647	20.708	AGC MAVG - calculated and Testing
12/17/2014 17:06	0:07	KWPII	0.084	20.477	AGC MAVG - calculated
12/17/2014 17:18	0:20	KWPII	0.280	20.571	AGC MAVG - calculated
12/17/2014 17:42	0:09	KWPII	0.008	20.707	AGC MAVG - calculated
12/17/2014 17:52	0:02	KWPII	0.000	20.698	AGC MAVG - calculated
12/17/2014 17:55	0:15	KWPII	0.011	20.708	AGC MAVG - calculated
12/17/2014 18:18	0:09	KWPII	0.075	20.682	AGC MAVG - calculated
12/17/2014 18:27	0:05	KWPII	0.025	20.511	AGC MAVG - calculated
12/17/2014 18:33	0:04	KWPII	0.042	20.141	AGC MAVG - calculated
12/17/2014 18:42	0:02	KWPII	0.010	20.607	AGC MAVG - calculated
12/17/2014 18:47	0:01	KWPII	0.001	20.649	AGC MAVG - calculated
12/17/2014 18:50	0:02	KWPII	0.000	20.680	AGC MAVG - calculated
12/17/2014 18:56	0:02	KWPII	0.002	20.685	AGC MAVG - calculated
12/17/2014 18:59	0:03	KWPII	0.000	20.705	AGC MAVG - calculated
12/17/2014 19:03	0:02	KWPII	0.000	20.699	AGC MAVG - calculated
12/17/2014 19:06	0:01	KWPII	0.000	20.705	AGC MAVG - calculated
12/17/2014 19:18	0:02	KWPII	0.000	20.706	AGC MAVG - calculated
12/17/2014 19:21	0:04	KWPII	0.001	20.708	AGC MAVG - calculated
12/17/2014 19:30	0:01	KWPII	0.000	20.706	AGC MAVG - calculated
12/17/2014 19:33	0:01	KWPII	0.000	20.708	AGC MAVG - calculated
12/17/2014 19:35	0:01	KWPII	0.000	20.705	AGC MAVG - calculated
12/17/2014 19:37	0:01	KWPII	0.001	20.708	AGC MAVG - calculated
12/17/2014 19:39	0:02	KWPII	0.001	20.708	AGC MAVG - calculated
12/17/2014 19:43	0:01	KWPII	0.002	20.708	AGC MAVG - calculated
12/17/2014 19:46	0:01	KWPII	0.001	20.708	AGC MAVG - calculated
12/17/2014 19:48	0:13	KWPII	0.005	20.708	AGC MAVG - calculated
12/17/2014 20:02	0:04	KWPII	0.001	20.708	AGC MAVG - calculated
12/17/2014 20:14	0:02	KWPII	0.000	20.702	AGC MAVG - calculated
12/17/2014 20:20	0:04	KWPII	0.007	20.701	AGC MAVG - calculated
12/17/2014 20:33	0:01	KWPII	0.000	20.683	AGC MAVG - calculated
12/17/2014 20:39	0:04	KWPII	0.003	20.705	AGC MAVG - calculated
12/17/2014 20:50	0:01	KWPII	0.001	20.663	AGC MAVG - calculated
12/17/2014 20:52	0:05	KWPII	0.014	20.615	AGC MAVG - calculated
12/17/2014 20:59	0:01	KWPII	0.002	20.437	AGC MAVG - calculated
12/17/2014 21:12	0:01	KWPII	0.000	20.705	AGC MAVG - calculated
12/17/2014 21:14	0:02	KWPII	0.001	20.708	AGC MAVG - calculated
12/17/2014 21:17	0:01	KWPII	0.001	20.708	AGC MAVG - calculated
12/17/2014 21:20	0:01	KWPII	0.000	20.706	AGC MAVG - calculated
12/17/2014 21:24	0:08	KWPII	0.002	20.708	AGC MAVG - calculated
12/17/2014 21:35	0:07	KWPII	0.004	20.708	AGC MAVG - calculated
12/17/2014 21:47	0:02	KWPII	0.008	20.686	AGC MAVG - calculated
12/17/2014 21:52	0:01	KWPII	0.001	20.695	AGC MAVG - calculated
12/17/2014 21:55	0:02	KWPII	0.004	20.679	AGC MAVG - calculated
12/17/2014 22:00	0:09	KWPII	0.177	20.704	AGC MAVG - calculated
12/17/2014 22:18	0:01	KWPII	0.001	20.603	AGC MAVG - calculated
12/17/2014 22:31	0:08	KWPII	0.072	20.478	AGC MAVG - calculated
12/17/2014 22:41	0:28	KWPII	1.465	20.646	AGC MAVG - calculated
12/17/2014 23:28	6:02	KWPII	76.194	20.708	AGC MAVG - calculated
12/18/2014 3:27	0:12	AWE	0.023	12.720	AGC MAVG - calculated
12/18/2014 3:40	0:05	AWE	0.005	10.813	AGC MAVG - calculated
12/18/2014 3:46	0:08	AWE	0.010	11.220	AGC MAVG - calculated
12/18/2014 3:57	0:02	AWE	0.003	11.241	AGC MAVG - calculated
12/18/2014 4:02	0:02	AWE	0.002	11.260	AGC MAVG - calculated
12/18/2014 4:06	0:01	AWE	0.001	11.397	AGC MAVG - calculated

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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
12/18/2014 5:31	0:09	KWPII	0.151	20.708	AGC MAVG - calculated
12/18/2014 7:24	0:02	KWPII	0.003	20.674	AGC MAVG - calculated
12/18/2014 7:33	0:08	KWPII	0.041	20.565	AGC MAVG - calculated
12/18/2014 7:42	0:02	KWPII	0.004	20.559	AGC MAVG - calculated
12/18/2014 7:51	0:01	KWPII	0.003	20.682	AGC MAVG - calculated
12/18/2014 7:53	0:04	KWPII	0.024	20.677	AGC MAVG - calculated
12/18/2014 7:58	0:01	KWPII	0.001	20.621	AGC MAVG - calculated
12/18/2014 8:02	0:01	KWPII	0.007	20.448	AGC MAVG - calculated
12/18/2014 8:14	0:04	KWPII	0.008	19.191	AGC MAVG - calculated
12/18/2014 8:22	0:32	KWPII	0.590	19.105	AGC MAVG - calculated and Testing
12/18/2014 8:56	0:17	KWPII	0.327	19.121	AGC MAVG - calculated and Testing
12/18/2014 9:15	0:03	KWPII	0.031	19.133	AGC MAVG - calculated and Testing
12/18/2014 9:19	0:09	KWPII	0.114	19.111	AGC MAVG - calculated and Testing
12/18/2014 9:29	0:04	KWPII	0.058	18.568	AGC MAVG - calculated and Testing
12/18/2014 9:34	0:10	KWPII	0.104	19.088	AGC MAVG - calculated and Testing
12/18/2014 9:50	0:57	KWPII	1.175	19.157	AGC MAVG - calculated and Testing
12/18/2014 10:48	0:12	KWPII	0.188	12.998	AGC MAVG - calculated and Testing
12/18/2014 11:02	0:22	KWPII	0.335	19.050	AGC MAVG - calculated and Testing
12/18/2014 11:27	0:34	KWPII	0.599	19.118	AGC MAVG - calculated and Testing
12/18/2014 12:03	1:11	KWPII	3.134	19.211	AGC MAVG - calculated
12/18/2014 13:27	0:02	KWPII	0.011	19.171	AGC MAVG - calculated and Testing
12/18/2014 13:33	0:02	KWPII	0.012	19.140	AGC MAVG - calculated
12/18/2014 13:36	0:03	KWPII	0.023	19.014	AGC MAVG - calculated
12/18/2014 13:49	0:01	KWPII	0.002	19.119	AGC MAVG - calculated
12/18/2014 13:52	0:01	KWPII	0.000	19.164	AGC MAVG - calculated
12/18/2014 13:55	0:05	KWPII	0.020	19.128	AGC MAVG - calculated
12/18/2014 14:01	0:01	KWPII	0.001	18.977	AGC MAVG - calculated
12/18/2014 14:04	0:03	KWPII	0.040	19.049	AGC MAVG - calculated
12/18/2014 14:08	0:02	KWPII	0.022	18.825	AGC MAVG - calculated
12/18/2014 15:24	0:03	KWPII	0.035	19.120	AGC MAVG - calculated
12/18/2014 15:30	0:10	KWPII	0.172	18.895	AGC MAVG - calculated
12/18/2014 15:42	0:01	KWPII	0.012	18.734	AGC MAVG - calculated
12/18/2014 15:44	0:06	KWPII	0.064	19.124	AGC MAVG - calculated
12/18/2014 15:51	0:10	KWPII	0.063	19.159	AGC MAVG - calculated
12/18/2014 16:03	0:01	KWPII	0.000	19.095	AGC MAVG - calculated
12/18/2014 16:06	0:03	KWPII	0.005	19.145	AGC MAVG - calculated
12/18/2014 16:20	0:02	KWPII	0.009	19.148	AGC MAVG - calculated
12/18/2014 16:26	0:01	KWPII	0.001	19.158	AGC MAVG - calculated
12/18/2014 16:40	0:02	KWPII	0.011	19.181	AGC MAVG - calculated
12/18/2014 16:44	0:01	KWPII	0.007	19.085	AGC MAVG - calculated
12/18/2014 16:52	0:02	KWPII	0.006	19.186	AGC MAVG - calculated
12/18/2014 17:06	0:03	KWPII	0.007	19.080	AGC MAVG - calculated
12/18/2014 17:12	0:02	KWPII	0.004	19.155	AGC MAVG - calculated
12/18/2014 17:17	0:18	KWPII	0.132	19.089	AGC MAVG - calculated
12/18/2014 17:47	0:01	KWPII	0.001	19.159	AGC MAVG - calculated
12/18/2014 18:07	0:01	KWPII	0.000	19.184	AGC MAVG - calculated
12/18/2014 18:09	0:11	KWPII	0.104	19.196	AGC MAVG - calculated
12/18/2014 18:22	0:04	KWPII	0.029	19.125	AGC MAVG - calculated
12/18/2014 18:27	0:02	KWPII	0.007	19.093	AGC MAVG - calculated
12/18/2014 18:30	0:02	KWPII	0.009	19.116	AGC MAVG - calculated
12/18/2014 18:33	0:14	KWPII	0.088	19.144	AGC MAVG - calculated
12/18/2014 19:08	0:04	KWPII	0.018	17.703	AGC MAVG - calculated
12/18/2014 19:14	0:04	KWPII	0.014	17.493	AGC MAVG - calculated
12/18/2014 20:27	0:04	KWPII	0.035	19.211	AGC MAVG - calculated
12/18/2014 21:51	0:02	KWPII	0.007	17.662	AGC MAVG - calculated
12/18/2014 21:55	0:01	KWPII	0.002	17.627	AGC MAVG - calculated
12/18/2014 22:25	0:06	KWPII	0.104	17.714	AGC MAVG - calculated
12/18/2014 23:08	3:16	KWPII	38.219	17.714	AGC MAVG - calculated
12/19/2014 0:16	0:01	AWE	0.000	21.000	AGC MAVG - calculated
12/19/2014 0:18	0:22	AWE	0.107	21.000	AGC MAVG - calculated
12/19/2014 0:41	0:01	AWE	0.001	20.070	AGC MAVG - calculated
12/19/2014 0:43	0:20	AWE	0.087	20.340	AGC MAVG - calculated
12/19/2014 1:06	0:03	AWE	0.003	18.650	AGC MAVG - calculated
12/19/2014 1:10	0:13	AWE	0.024	16.983	AGC MAVG - calculated
12/19/2014 1:28	0:01	AWE	0.002	14.527	AGC MAVG - calculated
12/19/2014 1:32	0:01	AWE	0.002	14.713	AGC MAVG - calculated
12/19/2014 1:34	0:05	AWE	0.006	13.907	AGC MAVG - calculated
12/19/2014 1:44	0:02	AWE	0.002	14.897	AGC MAVG - calculated
12/19/2014 1:47	0:01	AWE	0.001	14.120	AGC MAVG - calculated
12/19/2014 1:50	0:01	AWE	0.001	14.060	AGC MAVG - calculated
12/19/2014 1:52	0:03	AWE	0.006	15.033	AGC MAVG - calculated
12/19/2014 1:56	0:05	AWE	0.008	13.497	AGC MAVG - calculated
12/19/2014 2:05	0:06	AWE	0.009	13.157	AGC MAVG - calculated
12/19/2014 2:13	0:01	AWE	0.001	12.063	AGC MAVG - calculated
12/19/2014 2:25	1:57	KWPII	20.754	16.024	AGC MAVG - calculated
12/19/2014 2:39	0:12	AWE	0.029	19.040	AGC MAVG - calculated
12/19/2014 2:52	0:06	AWE	0.010	13.247	AGC MAVG - calculated
12/19/2014 2:59	0:02	AWE	0.002	10.807	AGC MAVG - calculated
12/19/2014 3:07	0:14	AWE	0.018	12.443	AGC MAVG - calculated
12/19/2014 3:25	0:02	AWE	0.004	10.790	AGC MAVG - calculated
12/19/2014 3:34	0:02	AWE	0.003	11.120	AGC MAVG - calculated
12/19/2014 3:37	0:02	AWE	0.003	10.437	AGC MAVG - calculated
12/19/2014 3:41	0:11	AWE	0.013	9.333	AGC MAVG - calculated
12/19/2014 3:53	0:06	AWE	0.005	10.300	AGC MAVG - calculated
12/19/2014 4:00	0:02	AWE	0.002	11.307	AGC MAVG - calculated
12/19/2014 4:05	0:01	AWE	0.002	11.737	AGC MAVG - calculated
12/19/2014 4:11	0:01	AWE	0.001	13.603	AGC MAVG - calculated
12/19/2014 4:13	0:01	AWE	0.001	14.270	AGC MAVG - calculated
12/19/2014 4:24	0:18	KWPII	0.753	10.072	AGC MAVG - calculated
12/19/2014 4:43	0:04	KWPII	0.038	4.345	AGC MAVG - calculated
12/19/2014 4:50	0:12	KWPII	0.099	3.358	AGC MAVG - calculated
12/19/2014 4:52	4:12	AWE	0.706	21.000	AGC MAVG - calculated
12/19/2014 5:13	0:00	KWPII	0.002	0.057	AGC MAVG - calculated
12/19/2014 10:10	0:01	AWE	0.000	21.000	AGC MAVG - calculated and Good Engineering and Operating Practices
12/19/2014 10:17	0:01	AWE	0.000	21.000	AGC MAVG - calculated and Good Engineering and Operating Practices
12/19/2014 10:41	0:02	AWE	0.001	21.000	AGC MAVG - calculated
12/19/2014 10:56	0:02	AWE	0.012	21.000	AGC MAVG - calculated
12/19/2014 11:10	0:01	AWE	0.000	21.000	AGC MAVG - calculated and Good Engineering and Operating Practices
12/19/2014 11:15	0:01	AWE	0.001	21.000	AGC MAVG - calculated and Good Engineering and Operating Practices
12/19/2014 11:19	0:01	AWE	0.001	21.000	AGC MAVG - calculated and Good Engineering and Operating Practices
12/19/2014 11:29	0:01	AWE	0.001	21.000	AGC MAVG - calculated
12/19/2014 15:05	0:01	KWP	0.000	0.003	AGC MAVG - calculated
12/19/2014 21:48	0:02	AWE	0.000	21.000	AGC MAVG - calculated and Operating Conditions on Company's System
12/20/2014 1:14	0:02	AWE	0.005	21.000	AGC MAVG - calculated and Operating Conditions on Company's System
12/20/2014 1:47	0:01	AWE	0.001	20.980	AGC MAVG - calculated and Operating Conditions on Company's System
12/20/2014 2:07	0:02	AWE	0.003	21.000	AGC MAVG - calculated and Operating Conditions on Company's System
12/20/2014 2:15	0:13	AWE	0.169	21.000	AGC MAVG - calculated and Operating Conditions on Company's System
12/20/2014 2:21	0:06	KWPII	0.019	0.411	AGC MAVG - calculated and Operating Conditions on Company's System
12/20/2014 2:48	0:04	KWPII	0.008	0.169	AGC MAVG - calculated and Operating Conditions on Company's System
12/20/2014 2:45	0:07	AWE	0.098	21.000	AGC MAVG - calculated and Operating Conditions on Company's System
12/20/2014 3:08	1:02	AWE	5.022	21.000	AGC MAVG - calculated and Operating Conditions on Company's System
12/20/2014 4:21	0:09	AWE	0.243	21.000	AGC MAVG - calculated and Operating Conditions on Company's System
12/20/2014 4:22	0:08	KWPII	0.085	0.981	AGC MAVG - calculated and Operating Conditions on Company's System
12/20/2014 4:36	0:20	AWE	0.104	21.000	AGC MAVG - calculated and Operating Conditions on Company's System

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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
12/20/2014 4 42	0 04	KWPII	0 008	0 143	AGC MAVG - calculated and Operating Conditions on Company's System
12/20/2014 4 52	0 02	KWPII	0 007	0 378	AGC MAVG - calculated and Operating Conditions on Company's System
12/20/2014 4 58	0 02	AWE	0 008	21 000	AGC MAVG - calculated
12/20/2014 4 59	0 01	KWPII	0 003	0 209	AGC MAVG - calculated
12/20/2014 5 01	0 04	AWE	0 044	20 893	AGC MAVG - calculated
12/20/2014 5 07	0 07	KWPII	0 001	0 067	AGC MAVG - calculated
12/20/2014 5 08	0 02	AWE	0 005	21 000	AGC MAVG - calculated
12/20/2014 8 10	0 01	KWP	0 000	0 002	AGC MAVG - calculated
12/20/2014 18 27	0 14	AWE	0 042	20 927	AGC MAVG - calculated and Testing
12/21/2014 1 02	0 01	KWP	0 000	0 003	AGC MAVG - calculated
12/22/2014 5 25	0 01	KWP	0 000	0 001	AGC MAVG - calculated
12/22/2014 15 18	0 01	KWPII	0 000	2 803	AGC MAVG - calculated
12/22/2014 15 40	0 01	KWPII	0 007	2 901	AGC MAVG - calculated
12/22/2014 16 07	0 01	KWPII	0 000	1 588	AGC MAVG - calculated
12/22/2014 16 49	0 03	KWPII	0 028	4 235	AGC MAVG - calculated
12/22/2014 17 04	0 02	KWPII	0 026	8 820	AGC MAVG - calculated
12/22/2014 17 10	0 02	KWPII	0 019	11 536	AGC MAVG - calculated
12/22/2014 17 20	0 11	KWPII	0 215	14 568	AGC MAVG - calculated
12/22/2014 17 48	0 05	KWPII	0 083	4 056	AGC MAVG - calculated
12/22/2014 18 02	0 03	KWPII	0 012	3 990	AGC MAVG - calculated
12/22/2014 18 24	0 01	KWPII	0 009	9 096	AGC MAVG - calculated
12/22/2014 18 27	0 04	KWPII	0 063	13 924	AGC MAVG - calculated
12/22/2014 18 39	0 08	KWPII	0 130	16 986	AGC MAVG - calculated
12/22/2014 18 48	0 01	KWPII	0 004	16 173	AGC MAVG - calculated
12/22/2014 19 01	0 03	KWPII	0 001	20 707	AGC MAVG - calculated
12/22/2014 19 15	0 02	KWPII	0 003	20 587	AGC MAVG - calculated
12/22/2014 19 37	0 02	KWPII	0 004	20 662	AGC MAVG - calculated
12/22/2014 19 40	0 03	KWPII	0 001	20 708	AGC MAVG - calculated
12/22/2014 19 52	0 07	KWPII	0 009	20 705	AGC MAVG - calculated
12/22/2014 20 06	0 04	KWPII	0 033	20 611	AGC MAVG - calculated
12/22/2014 20 13	0 01	KWPII	0 000	20 677	AGC MAVG - calculated
12/22/2014 20 16	0 01	KWPII	0 001	20 694	AGC MAVG - calculated
12/22/2014 20 29	0 01	KWPII	0 011	20 198	AGC MAVG - calculated
12/22/2014 20 36	0 02	KWPII	0 003	20 701	AGC MAVG - calculated
12/22/2014 20 42	0 01	KWPII	0 003	20 700	AGC MAVG - calculated
12/22/2014 20 45	0 01	KWPII	0 001	20 689	AGC MAVG - calculated
12/22/2014 21 03	0 03	KWPII	0 002	20 708	AGC MAVG - calculated
12/22/2014 21 09	0 01	KWPII	0 006	20 627	AGC MAVG - calculated
12/22/2014 21 17	0 01	KWPII	0 011	20 683	AGC MAVG - calculated
12/22/2014 21 27	0 02	KWPII	0 006	20 699	AGC MAVG - calculated
12/22/2014 21 33	0 02	KWPII	0 015	20 493	AGC MAVG - calculated
12/22/2014 21 38	0 06	KWPII	0 076	20 507	AGC MAVG - calculated
12/22/2014 21 46	0 02	KWPII	0 003	20 481	AGC MAVG - calculated
12/22/2014 21 50	0 01	KWPII	0 001	20 826	AGC MAVG - calculated
12/22/2014 21 52	0 01	KWPII	0 002	20 645	AGC MAVG - calculated
12/22/2014 23 19	2 29	KWPII	29 956	20 708	AGC MAVG - calculated and AGC MAVG - entered - Excess Energy
12/23/2014 1 33	0 01	AWE	0 002	0 140	AGC MAVG - entered - Excess Energy
12/23/2014 1 33	0 02	KWP	0 021	25 909	AGC MAVG - entered - Excess Energy
12/23/2014 1 36	0 02	KWP	0 003	25 574	AGC MAVG - entered - Excess Energy
12/23/2014 1 50	1 36	KWPII	18 282	19 159	AGC MAVG - calculated, AGC MAVG - entered - Excess Energy, AGC MAVG - calculated, and AGC MAVG - entered - Excess
12/23/2014 3 00	0 09	KWP	0 451	25 871	AGC MAVG - entered - Excess Energy, AGC MAVG - calculated, and AGC MAVG - entered - Excess Energy
12/23/2014 3 29	0 50	KWPII	5 894	18 769	AGC MAVG - entered - Excess Energy and AGC MAVG - calculated
12/23/2014 4 21	0 03	KWPII	0 077	18 474	AGC MAVG - calculated
12/23/2014 7 14	0 01	AWE	0 000	0 003	AGC MAVG - calculated
12/23/2014 7 21	0 01	KWPII	0 010	17 225	AGC MAVG - calculated
12/23/2014 7 45	0 04	KWPII	0 142	20 027	AGC MAVG - calculated
12/23/2014 7 51	0 01	KWPII	0 013	19 033	AGC MAVG - calculated
12/23/2014 8 24	0 01	KWPII	0 017	18 877	AGC MAVG - calculated
12/23/2014 8 36	0 08	KWPII	0 142	18 866	AGC MAVG - calculated
12/23/2014 8 44	0 03	KWPII	0 014	20 074	AGC MAVG - calculated
12/23/2014 9 02	0 02	KWPII	0 007	20 597	AGC MAVG - calculated
12/23/2014 9 06	0 02	KWPII	0 037	20 213	AGC MAVG - calculated
12/23/2014 9 08	0 01	KWPII	0 008	20 407	AGC MAVG - calculated
12/23/2014 9 10	0 01	KWPII	0 000	20 615	AGC MAVG - calculated
12/23/2014 10 50	0 01	KWPII	0 008	20 478	AGC MAVG - calculated
12/23/2014 10 52	0 01	KWPII	0 001	19 804	AGC MAVG - calculated
12/23/2014 10 59	0 01	KWPII	0 005	19 905	AGC MAVG - calculated
12/23/2014 11 25	0 01	KWPII	0 006	20 192	AGC MAVG - calculated
12/23/2014 11 31	0 01	KWPII	0 010	19 869	AGC MAVG - calculated
12/23/2014 11 41	0 01	KWPII	0 000	19 850	AGC MAVG - calculated
12/23/2014 11 43	0 03	KWPII	0 008	19 672	AGC MAVG - calculated
12/23/2014 11 48	0 17	KWPII	0 493	20 629	AGC MAVG - calculated
12/23/2014 12 12	0 02	KWPII	0 021	20 322	AGC MAVG - calculated
12/23/2014 12 18	0 01	KWPII	0 003	19 730	AGC MAVG - calculated
12/23/2014 12 22	0 12	KWPII	0 298	20 325	AGC MAVG - calculated
12/23/2014 12 35	0 01	KWPII	0 030	15 071	AGC MAVG - calculated
12/23/2014 12 44	0 05	KWPII	0 097	18 905	AGC MAVG - calculated
12/23/2014 12 50	0 01	KWPII	0 025	13 478	AGC MAVG - calculated
12/23/2014 13 04	0 01	KWPII	0 008	17 463	AGC MAVG - calculated
12/23/2014 13 08	0 04	KWPII	0 104	18 427	AGC MAVG - calculated
12/23/2014 13 17	0 14	KWPII	0 563	20 636	AGC MAVG - calculated and Testing
12/23/2014 13 45	0 01	KWPII	0 003	18 460	AGC MAVG - calculated and Testing
12/23/2014 13 49	0 08	KWPII	0 209	18 384	AGC MAVG - calculated and Testing
12/23/2014 14 08	0 22	KWPII	0 752	18 579	AGC MAVG - calculated
12/23/2014 14 34	0 02	KWPII	0 025	12 940	AGC MAVG - calculated
12/23/2014 14 38	0 06	KWPII	0 187	12 601	AGC MAVG - calculated
12/23/2014 14 47	0 02	KWPII	0 070	9 479	AGC MAVG - calculated
12/23/2014 14 50	0 01	KWPII	0 014	9 601	AGC MAVG - calculated
12/23/2014 14 52	0 09	KWPII	0 187	15 201	AGC MAVG - calculated
12/23/2014 15 08	0 01	KWPII	0 022	14 991	AGC MAVG - calculated
12/23/2014 15 19	0 53	KWPII	1 544	18 787	AGC MAVG - calculated
12/23/2014 16 19	0 22	KWPII	0 443	20 096	AGC MAVG - calculated
12/23/2014 16 42	0 03	KWPII	0 066	8 244	AGC MAVG - calculated
12/23/2014 17 52	0 02	KWPII	0 018	13 406	AGC MAVG - calculated
12/23/2014 17 55	0 18	KWPII	0 593	14 990	AGC MAVG - calculated
12/23/2014 18 14	0 02	KWPII	0 039	11 200	AGC MAVG - calculated
12/23/2014 18 18	0 01	KWPII	0 001	11 634	AGC MAVG - calculated
12/23/2014 18 20	0 13	KWPII	0 383	12 662	AGC MAVG - calculated
12/23/2014 19 17	0 04	KWPII	0 073	7 194	AGC MAVG - calculated and Testing
12/23/2014 19 38	0 01	AWE	0 001	2 260	AGC MAVG - calculated
12/23/2014 19 52	0 04	KWPII	0 068	6 777	AGC MAVG - calculated
12/23/2014 20 01	0 02	KWPII	0 040	4 034	AGC MAVG - calculated
12/23/2014 20 47	0 01	KWPII	0 010	5 536	AGC MAVG - calculated
12/23/2014 20 50	0 01	KWPII	0 007	5 576	AGC MAVG - calculated
12/23/2014 21 21	0 01	KWPII	0 011	2 360	AGC MAVG - calculated
12/23/2014 21 24	0 01	KWPII	0 008	1 367	AGC MAVG - calculated
12/23/2014 21 34	0 01	KWPII	0 004	0 283	AGC MAVG - calculated
12/23/2014 21 58	0 04	KWPII	0 057	6 751	AGC MAVG - calculated
12/23/2014 22 08	0 01	KWPII	0 003	5 162	AGC MAVG - calculated
12/23/2014 22 18	0 07	KWPII	0 103	6 543	AGC MAVG - calculated
12/23/2014 22 24	0 01	KWPII	0 009	2 283	AGC MAVG - calculated
12/23/2014 23 01	0 01	KWPII	0 010	5 148	AGC MAVG - calculated
12/23/2014 23 03	0 11	KWPII	0 278	11 265	AGC MAVG - calculated
12/23/2014 23 20	0 01	KWPII	0 025	10 382	AGC MAVG - calculated

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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
12/23/2014 23 24	0 01	KWPII	0 013	7 668	AGC MAVG - calculated
12/23/2014 23 32	0 09	KWPII	0 195	8 874	AGC MAVG - calculated
12/24/2014 0 47	0 08	KWPII	0 176	11 711	AGC MAVG - calculated
12/24/2014 0 58	0 06	KWPII	0 165	14 885	AGC MAVG - calculated
12/24/2014 1 12	0 07	KWPII	0 198	13 324	AGC MAVG - calculated
12/24/2014 1 24	0 03	KWPII	0 052	15 327	AGC MAVG - calculated
12/24/2014 1 34	0 17	KWPII	0 547	18 816	AGC MAVG - calculated
12/24/2014 1 42	0 01	AWE	0 000	0 003	AGC MAVG - calculated
12/24/2014 1 44	0 01	AWE	0 000	0 003	AGC MAVG - calculated
12/24/2014 1 53	0 03	KWPII	0 101	13 660	AGC MAVG - calculated
12/24/2014 1 57	0 03	KWPII	0 031	11 275	AGC MAVG - calculated
12/24/2014 2 02	1 11	KWPII	8 785	18 816	AGC MAVG - calculated
12/24/2014 3 02	0 03	AWE	0 078	9 033	AGC MAVG - calculated
12/24/2014 3 15	0 19	KWPII	0 395	7 925	AGC MAVG - calculated
12/24/2014 3 43	0 01	KWPII	0 013	2 123	AGC MAVG - calculated
12/24/2014 21 33	0 01	KWP	0 000	0 002	AGC MAVG - calculated
12/25/2014 2 33	0 01	KWPII	0 004	3 201	AGC MAVG - calculated
12/25/2014 2 36	0 01	KWPII	0 005	3 073	AGC MAVG - calculated
12/25/2014 3 46	0 02	KWPII	0 015	2 002	AGC MAVG - calculated
12/25/2014 3 53	0 07	KWPII	0 101	1 097	AGC MAVG - calculated
12/25/2014 3 54	0 04	AWE	0 122	10 773	AGC MAVG - calculated
12/25/2014 7 44	0 03	KWPII	0 031	3 577	AGC MAVG - calculated
12/25/2014 8 13	0 06	KWPII	0 067	5 000	AGC MAVG - calculated
12/25/2014 14 32	0 02	KWPII	0 044	7 849	AGC MAVG - calculated
12/25/2014 15 57	0 01	KWPII	0 010	2 645	AGC MAVG - calculated
12/25/2014 16 34	0 01	KWPII	0 007	3 958	AGC MAVG - calculated
12/25/2014 16 39	0 02	KWPII	0 017	3 567	AGC MAVG - calculated
12/25/2014 16 48	0 02	KWPII	0 015	2 793	AGC MAVG - calculated
12/25/2014 16 49	0 01	KWPII	0 005	2 230	AGC MAVG - calculated
12/25/2014 22 32	0 04	KWPII	0 020	3 926	AGC MAVG - calculated
12/25/2014 23 09	0 04	KWPII	0 017	3 559	AGC MAVG - calculated
12/25/2014 23 22	0 03	KWPII	0 008	2 114	AGC MAVG - calculated
12/25/2014 23 42	0 01	KWPII	0 002	2 520	AGC MAVG - calculated
12/26/2014 8 10	0 01	AWE	0 000	0 007	AGC MAVG - calculated
12/26/2014 9 26	0 01	KWP	0 000	0 009	AGC MAVG - calculated and Good Engineering and Operating Practices
12/26/2014 14 50	0 04	KWPII	0 057	8 325	AGC MAVG - calculated
12/26/2014 14 57	0 02	KWPII	0 020	4 830	AGC MAVG - calculated
12/26/2014 15 00	0 05	KWPII	0 066	4 148	AGC MAVG - calculated
12/26/2014 15 06	0 01	KWPII	0 007	2 159	AGC MAVG - calculated
12/26/2014 15 12	0 01	KWPII	0 009	1 388	AGC MAVG - calculated
12/26/2014 16 15	0 07	KWPII	0 068	11 037	AGC MAVG - calculated
12/26/2014 16 26	0 01	KWPII	0 018	11 002	AGC MAVG - calculated and Testing
12/26/2014 16 28	0 01	KWPII	0 012	11 378	AGC MAVG - calculated and Testing
12/26/2014 16 30	0 01	KWPII	0 004	11 821	AGC MAVG - calculated and Testing
12/26/2014 16 32	0 02	KWPII	0 035	11 842	AGC MAVG - calculated
12/26/2014 16 37	0 05	KWPII	0 102	12 046	AGC MAVG - calculated
12/26/2014 16 44	0 02	KWPII	0 045	10 997	AGC MAVG - calculated
12/26/2014 16 47	0 01	KWPII	0 009	10 847	AGC MAVG - calculated
12/26/2014 16 49	0 03	KWPII	0 044	10 891	AGC MAVG - calculated
12/26/2014 16 53	0 02	KWPII	0 043	10 881	AGC MAVG - calculated
12/26/2014 16 59	0 03	KWPII	0 066	10 439	AGC MAVG - calculated
12/26/2014 17 06	0 01	KWPII	0 010	7 927	AGC MAVG - calculated
12/26/2014 17 07	0 01	KWPII	0 011	7 975	AGC MAVG - calculated
12/26/2014 17 11	0 03	KWPII	0 045	8 012	AGC MAVG - calculated
12/26/2014 17 17	0 04	KWPII	0 065	8 119	AGC MAVG - calculated
12/26/2014 17 25	0 09	KWPII	0 204	8 215	AGC MAVG - calculated
12/26/2014 17 40	0 01	KWPII	0 006	1 627	AGC MAVG - calculated
12/26/2014 17 53	0 02	KWPII	0 015	1 906	AGC MAVG - calculated
12/26/2014 18 07	0 01	KWPII	0 005	2 018	AGC MAVG - calculated
12/26/2014 18 15	0 02	KWPII	0 015	2 192	AGC MAVG - calculated
12/26/2014 18 20	0 04	KWPII	0 023	1 237	AGC MAVG - calculated
12/26/2014 18 26	0 01	KWPII	0 003	0 647	AGC MAVG - calculated
12/26/2014 18 32	0 01	KWPII	0 005	0 474	AGC MAVG - calculated
12/26/2014 19 05	0 01	KWPII	0 004	0 670	AGC MAVG - calculated
12/27/2014 16 43	0 01	KWPII	0 008	5 971	AGC MAVG - calculated
12/27/2014 19 03	0 01	KWPII	0 008	10 007	AGC MAVG - calculated
12/27/2014 19 16	0 13	KWPII	0 310	16 982	AGC MAVG - calculated
12/27/2014 19 30	0 14	KWPII	0 268	16 446	AGC MAVG - calculated
12/27/2014 19 51	0 02	KWPII	0 050	11 730	AGC MAVG - calculated
12/27/2014 19 56	0 09	KWPII	0 123	12 171	AGC MAVG - calculated
12/27/2014 20 09	0 01	KWPII	0 021	11 276	AGC MAVG - calculated
12/27/2014 20 11	0 03	KWPII	0 079	10 551	AGC MAVG - calculated
12/27/2014 20 18	0 02	KWPII	0 048	10 536	AGC MAVG - calculated
12/27/2014 20 27	0 10	KWPII	0 190	12 273	AGC MAVG - calculated
12/27/2014 20 38	0 03	KWPII	0 029	10 258	AGC MAVG - calculated
12/27/2014 20 42	0 05	KWPII	0 139	10 365	AGC MAVG - calculated
12/27/2014 20 50	0 02	KWPII	0 057	6 714	AGC MAVG - calculated
12/27/2014 20 55	0 01	KWPII	0 007	4 536	AGC MAVG - calculated
12/27/2014 21 06	0 01	KWPII	0 008	2 033	AGC MAVG - calculated
12/27/2014 21 31	0 03	KWPII	0 056	7 512	AGC MAVG - calculated
12/27/2014 21 43	0 05	KWPII	0 039	8 436	AGC MAVG - calculated
12/27/2014 21 51	0 01	KWPII	0 002	7 019	AGC MAVG - calculated
12/27/2014 21 53	0 02	KWPII	0 032	7 891	AGC MAVG - calculated
12/27/2014 21 56	0 01	KWP	0 000	0 005	AGC MAVG - calculated
12/27/2014 22 01	0 01	KWPII	0 012	5 930	AGC MAVG - calculated
12/27/2014 22 03	0 01	KWPII	0 013	5 079	AGC MAVG - calculated
12/27/2014 22 09	0 02	KWPII	0 014	3 722	AGC MAVG - calculated
12/27/2014 23 00	0 01	KWPII	0 011	5 263	AGC MAVG - calculated
12/27/2014 23 08	0 01	KWPII	0 013	7 700	AGC MAVG - calculated
12/27/2014 23 15	0 01	KWPII	0 004	8 285	AGC MAVG - calculated
12/27/2014 23 21	0 01	KWPII	0 018	8 702	AGC MAVG - calculated
12/27/2014 23 50	0 01	KWPII	0 013	14 893	AGC MAVG - calculated
12/27/2014 23 55	0 01	KWPII	0 017	14 447	AGC MAVG - calculated
12/27/2014 23 59	0 06	KWPII	0 182	15 374	AGC MAVG - calculated
12/28/2014 0 07	0 05	KWPII	0 113	8 489	AGC MAVG - calculated
12/28/2014 0 15	0 01	KWPII	0 009	4 214	AGC MAVG - calculated
12/28/2014 0 20	0 01	KWPII	0 008	3 953	AGC MAVG - calculated
12/28/2014 0 38	0 01	KWPII	0 013	6 759	AGC MAVG - calculated
12/28/2014 0 40	0 56	KWPII	2 947	19 881	AGC MAVG - calculated
12/28/2014 2 47	1 05	KWPII	9 403	18 994	AGC MAVG - calculated AGC MAVG - entered AGC MAVG - entered - Excess Energy AGC MAVG - calculated AGC MAVG entered, AGC MAVG - entered - Excess Energy, and AGC MAVG - calculated
12/28/2014 3 54	0 01	KWPII	0 026	12 367	AGC MAVG - calculated
12/28/2014 3 57	0 25	KWPII	1 533	15 427	AGC MAVG - calculated
12/28/2014 9 43	0 01	KWPII	0 001	19 713	AGC MAVG - calculated
12/28/2014 11 12	0 01	KWPII	0 003	17 312	AGC MAVG - calculated
12/28/2014 14 19	0 08	KWPII	0 203	17 057	AGC MAVG - calculated
12/28/2014 14 30	0 17	KWPII	0 356	17 454	AGC MAVG - calculated
12/28/2014 14 51	0 08	KWPII	0 116	14 527	AGC MAVG - calculated
12/28/2014 14 59	0 01	KWPII	0 013	14 284	AGC MAVG - calculated
12/28/2014 15 01	0 08	KWPII	0 097	13 982	AGC MAVG - calculated
12/28/2014 15 10	0 02	KWPII	0 010	13 555	AGC MAVG - calculated
12/28/2014 15 14	0 07	KWPII	0 146	14 326	AGC MAVG - calculated
12/28/2014 15 27	0 08	KWPII	0 135	13 119	AGC MAVG - calculated
12/28/2014 18 46	0 07	KWPII	0 105	18 971	AGC MAVG - calculated

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Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
12/28/2014 18:54	0:11	KWPII	0.154	18,579	AGC MAVG - calculated
12/28/2014 19:11	0:08	KWPII	0.103	19,008	AGC MAVG - calculated
12/28/2014 19:31	0:02	KWPII	0.003	19,774	AGC MAVG - calculated
12/28/2014 19:41	0:02	KWPII	0.011	20,262	AGC MAVG - calculated
12/29/2014 3:36	1:13	KWPII	5.755	19,750	AGC MAVG - calculated
12/29/2014 8:29	0:03	KWPII	0.068	9,269	AGC MAVG - calculated
12/29/2014 8:44	0:01	KWPII	0.023	6,521	AGC MAVG - calculated
12/29/2014 9:10	0:01	KWPII	0.018	4,613	AGC MAVG - calculated
12/29/2014 9:17	0:02	KWPII	0.021	5,304	AGC MAVG - calculated
12/29/2014 9:29	0:01	KWPII	0.002	5,453	AGC MAVG - calculated
12/29/2014 9:37	0:02	KWPII	0.028	6,716	AGC MAVG - calculated
12/29/2014 10:00	0:02	KWPII	0.017	7,616	AGC MAVG - calculated
12/29/2014 10:03	0:03	KWPII	0.050	6,970	AGC MAVG - calculated
12/29/2014 10:10	0:02	KWPII	0.021	4,988	AGC MAVG - calculated
12/29/2014 10:23	0:01	KWPII	0.022	4,025	AGC MAVG - calculated
12/29/2014 10:30	0:02	KWPII	0.036	3,218	AGC MAVG - calculated
12/29/2014 10:57	0:01	KWPII	0.003	1,784	AGC MAVG - calculated
12/29/2014 11:20	0:01	KWPII	0.004	1,739	AGC MAVG - calculated
12/29/2014 14:00	0:01	KWP	0.000	0.006	AGC MAVG - calculated
12/30/2014 13:10	0:01	KWPII	0.007	7,767	AGC MAVG - calculated
12/30/2014 13:29	0:01	KWPII	0.005	11,062	AGC MAVG - calculated
12/30/2014 13:35	0:01	KWPII	0.000	12,259	AGC MAVG - calculated
12/30/2014 13:38	0:01	KWPII	0.030	13,179	AGC MAVG - calculated
12/30/2014 13:40	0:01	KWPII	0.015	13,230	AGC MAVG - calculated
12/30/2014 13:43	0:01	KWPII	0.019	13,956	AGC MAVG - calculated
12/30/2014 13:45	0:02	KWPII	0.020	13,993	AGC MAVG - calculated
12/30/2014 13:52	0:02	KWPII	0.029	15,662	AGC MAVG - calculated
12/30/2014 13:59	0:04	KWPII	0.186	16,774	AGC MAVG - calculated
12/30/2014 14:24	0:01	KWPII	0.000	14,508	AGC MAVG - calculated
12/30/2014 14:41	0:31	KWPII	1.000	15,696	AGC MAVG - calculated
12/30/2014 15:13	0:05	KWPII	0.117	17,418	AGC MAVG - calculated
12/30/2014 15:21	0:01	KWPII	0.018	18,271	AGC MAVG - calculated
12/30/2014 15:25	0:05	KWPII	0.101	18,895	AGC MAVG - calculated
12/30/2014 15:31	0:01	KWPII	0.004	18,404	AGC MAVG - calculated
12/30/2014 15:40	0:05	KWPII	0.195	18,478	AGC MAVG - calculated
12/30/2014 15:47	0:04	KWPII	0.045	17,702	AGC MAVG - calculated
12/30/2014 15:52	0:07	KWPII	0.196	16,761	AGC MAVG - calculated
12/30/2014 16:01	0:07	KWPII	0.144	16,356	AGC MAVG - calculated
12/30/2014 16:09	0:01	KWPII	0.028	16,066	AGC MAVG - calculated
12/30/2014 16:13	0:04	KWPII	0.083	17,597	AGC MAVG - calculated
12/30/2014 16:19	0:10	KWPII	0.196	17,919	AGC MAVG - calculated
12/30/2014 16:48	0:05	KWPII	0.083	19,345	AGC MAVG - calculated
12/30/2014 16:58	0:02	KWPII	0.011	19,505	AGC MAVG - calculated
12/30/2014 20:33	0:01	KWPII	0.001	20,229	AGC MAVG - calculated
12/30/2014 20:35	0:06	KWPII	0.176	19,298	AGC MAVG - calculated
12/30/2014 20:47	0:02	KWPII	0.030	18,590	AGC MAVG - calculated
12/31/2014 0:58	0:01	KWPII	0.013	1,955	AGC MAVG - calculated
12/31/2014 1:19	0:01	AWE	0.000	3,277	AGC MAVG - calculated
12/31/2014 14:00	0:01	KWPII	0.001	10,957	AGC MAVG - calculated
12/31/2014 14:04	0:01	KWPII	0.006	10,290	AGC MAVG - calculated
12/31/2014 14:10	0:02	KWPII	0.035	9,992	AGC MAVG - calculated
12/31/2014 14:16	0:02	KWPII	0.020	11,178	AGC MAVG - calculated
12/31/2014 14:21	0:03	KWPII	0.057	12,104	AGC MAVG - calculated
12/31/2014 14:27	0:04	KWPII	0.065	11,027	AGC MAVG - calculated
12/31/2014 14:51	0:01	KWPII	0.026	7,337	AGC MAVG - calculated
12/31/2014 14:58	0:02	KWPII	0.023	7,391	AGC MAVG - calculated
12/31/2014 15:52	0:01	KWPII	0.008	4,407	AGC MAVG - calculated
12/31/2014 16:38	0:01	KWPII	0.007	2,506	AGC MAVG - calculated
12/31/2014 16:41	0:01	KWPII	0.011	1,865	AGC MAVG - calculated
12/31/2014 17:11	0:01	KWPII	0.005	2,155	AGC MAVG - calculated
12/31/2014 23:08	0:03	KWPII	0.056	8,503	AGC MAVG - calculated
12/31/2014 23:16	0:02	KWPII	0.025	8,933	AGC MAVG - calculated
12/31/2014 23:21	0:01	KWPII	0.006	7,088	AGC MAVG - calculated
12/31/2014 23:27	0:03	KWPII	0.046	8,124	AGC MAVG - calculated
12/31/2014 23:31	0:01	KWPII	0.000	7,653	AGC MAVG - calculated
12/31/2014 23:33	0:03	KWPII	0.039	7,726	AGC MAVG - calculated
12/31/2014 23:39	0:02	KWPII	0.017	7,889	AGC MAVG - calculated
12/31/2014 23:46	0:04	KWPII	0.068	8,524	AGC MAVG - calculated
12/31/2014 23:51	0:01	KWPII	0.004	8,845	AGC MAVG - calculated
12/31/2014 23:53	0:03	KWPII	0.033	8,801	AGC MAVG - calculated
12/31/2014 23:59	0:01	KWPII	0.006	5,979	AGC MAVG - calculated

Notes

- Curtailment for Kaheawa Wind Power ("KWP"), Makila Hydroelectric ("MH"), AAAAA Rent-A-Space Maui LTD ("5A"), Boreas Solar, LLC ("BS"), Auwahi Wind Energy ("AWE"), and Kaheawa Wind Power II ("KWPII") may now be controlled by
- The Estimated Curtailed MWH and Peak MW Curtailed are calculated with information provided by AWE, KWP, and KWPII. Maui Electric does not make any representation as to its accuracy.
- The data to calculate the Estimated Curtailed MWH and Peak MW Curtailed is not provided by 5A, BS, or MH.
- Curtailment signals sent to 5A or BS during nighttime hours are not recorded as curtailment events because no energy generation is possible during that time.

Maui Electric

Lanai Curtailment Report December 2014

Start Date/Time	Stop Date/Time	Duration (h mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
12/1/2014 7 34	12/1/2014 13 49	6 18	LSR	Data is not available	Data is not available	Testing
12/1/2014 13 51	12/1/2014 13 51	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/1/2014 13 54	12/1/2014 14 50	0 57	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/1/2014 14 52	12/1/2014 15 11	0 20	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/1/2014 15 13	12/1/2014 15 34	0 22	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/1/2014 15 40	12/1/2014 15 42	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/1/2014 15 45	12/1/2014 15 52	0 08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/1/2014 15:55	12/1/2014 15 55	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/1/2014 16 04	12/1/2014 16 04	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/1/2014 16:28	12/1/2014 16 29	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/1/2014 16 35	12/1/2014 16 38	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 7 55	12/2/2014 9 58	2 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 10 00	12/2/2014 10 02	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 10 08	12/2/2014 10 52	0 45	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 10 56	12/2/2014 10 57	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 11:07	12/2/2014 11 08	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 11:21	12/2/2014 11 24	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 11:29	12/2/2014 11 40	0 12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 11:44	12/2/2014 11 49	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 11:58	12/2/2014 12 01	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 12 03	12/2/2014 12:18	0 16	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 12 23	12/2/2014 12 23	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 12 29	12/2/2014 12 31	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 12 35	12/2/2014 12 37	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 13 24	12/2/2014 13 26	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 13 28	12/2/2014 13 31	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 13 39	12/2/2014 13 39	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 13 50	12/2/2014 13 50	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 14 10	12/2/2014 14 10	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 14 25	12/2/2014 15 18	0 54	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 15 20	12/2/2014 15 43	0 24	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 15 45	12/2/2014 15 49	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 15 54	12/2/2014 15 54	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 16 40	12/2/2014 16 41	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/2/2014 16 51	12/2/2014 16 52	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/3/2014 7 49	12/3/2014 7 53	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/3/2014 7 57	12/3/2014 8 44	0 48	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/3/2014 8 53	12/3/2014 9 04	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/3/2014 9 08	12/3/2014 9 14	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/3/2014 9 21	12/3/2014 9 21	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/3/2014 12:01	12/3/2014 12:04	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/3/2014 12 37	12/3/2014 12 46	0.10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/3/2014 12 48	12/3/2014 12 48	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/3/2014 12 53	12/3/2014 12 54	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/3/2014 12 57	12/3/2014 12 58	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/3/2014 13 03	12/3/2014 13:12	0 10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/4/2014 7 43	12/4/2014 7 43	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/4/2014 7 49	12/4/2014 11 47	3 58	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/4/2014 11 54	12/4/2014 11 54	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/4/2014 11 57	12/4/2014 11 57	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/4/2014 12 07	12/4/2014 12:14	0 08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/4/2014 12:19	12/4/2014 13 59	1 41	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/4/2014 14 57	12/4/2014 15 01	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/4/2014 15 07	12/4/2014 15.18	0 12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/4/2014 15 20	12/4/2014 16 17	0 58	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/4/2014 16 22	12/4/2014 16 22	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/4/2014 16 25	12/4/2014 16 25	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/4/2014 16 28	12/4/2014 16 28	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 9 48	12/5/2014 9 54	0 07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 9 56	12/5/2014 9 56	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 9 58	12/5/2014 9 58	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 10 53	12/5/2014 10 54	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 10 57	12/5/2014 11 11	0 15	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 11 13	12/5/2014 11.13	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 11 38	12/5/2014 12.18	0 43	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 12 35	12/5/2014 13 37	1 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 13 55	12/5/2014 13 58	0 04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 14 02	12/5/2014 14 02	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 14 12	12/5/2014 14:13	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 14 18	12/5/2014 14 19	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 14 22	12/5/2014 14 26	0 05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 14 44	12/5/2014 14 53	0 10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 14:56	12/5/2014 14 56	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 15 18	12/5/2014 15 26	0 09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 15 28	12/5/2014 15 33	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 15 39	12/5/2014 15 39	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 15 42	12/5/2014 15 47	0.06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 15 54	12/5/2014 15 55	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/5/2014 16 07	12/5/2014 16 19	0:13	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/6/2014 7 22	12/6/2014 14 18	6:57	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/6/2014 14 22	12/6/2014 14 24	0 03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/6/2014 14 26	12/6/2014 14 26	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/6/2014 15 40	12/6/2014 15 40	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/6/2014 15 51	12/6/2014 16 35	0 45	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/6/2014 16 37	12/6/2014 16 37	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/7/2014 7.30	12/7/2014 15 02	7 33	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/7/2014 15 34	12/7/2014 15 34	0 01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/7/2014 15 38	12/7/2014 15 43	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/7/2014 15 46	12/7/2014 15 47	0 02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/7/2014 15 49	12/7/2014 17 03	1:15	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/8/2014 7 32	12/8/2014 7 37	0 06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/8/2014 7 53	12/8/2014 8 33	0 41	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/8/2014 8 35	12/8/2014 10 07	1:33	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/8/2014 10 09	12/8/2014 10 54	0 48	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/8/2014 10 57	12/8/2014 11 29	0 33	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/8/2014 11 31	12/8/2014 14 17	2 47	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices

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Start Date/Time	Stop Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
12/8/2014 14:19	12/8/2014 14:19	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/8/2014 14:23	12/8/2014 16:19	1:57	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 7:38	12/9/2014 8:18	0:41	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 8:33	12/9/2014 9:59	1:27	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 10:01	12/9/2014 10:11	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 10:13	12/9/2014 10:28	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 10:28	12/9/2014 11:03	0:36	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 11:06	12/9/2014 11:18	0:13	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 11:31	12/9/2014 11:31	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 11:34	12/9/2014 11:35	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 11:49	12/9/2014 11:50	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 12:03	12/9/2014 12:03	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 12:30	12/9/2014 12:30	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 12:43	12/9/2014 12:44	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 12:46	12/9/2014 12:55	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 13:09	12/9/2014 13:10	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 13:24	12/9/2014 13:32	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 13:34	12/9/2014 14:31	0:58	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 14:33	12/9/2014 14:35	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 14:37	12/9/2014 15:05	0:29	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 15:10	12/9/2014 15:16	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 15:21	12/9/2014 15:29	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 15:33	12/9/2014 15:35	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 15:38	12/9/2014 15:38	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/9/2014 15:41	12/9/2014 16:31	0:51	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/10/2014 7:32	12/10/2014 17:13	9:42	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 7:25	12/11/2014 7:31	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 8:06	12/11/2014 8:35	0:30	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 8:41	12/11/2014 8:42	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 8:44	12/11/2014 8:45	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 8:48	12/11/2014 8:52	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 8:55	12/11/2014 9:45	0:51	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 9:57	12/11/2014 10:02	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 10:04	12/11/2014 10:05	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 10:10	12/11/2014 10:15	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 10:17	12/11/2014 10:19	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 10:23	12/11/2014 10:23	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 10:28	12/11/2014 12:07	1:40	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 12:10	12/11/2014 12:17	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 12:25	12/11/2014 12:27	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 12:33	12/11/2014 12:38	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 12:43	12/11/2014 12:50	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 12:53	12/11/2014 12:59	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 13:04	12/11/2014 13:07	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 13:17	12/11/2014 13:17	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 13:27	12/11/2014 13:40	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 14:15	12/11/2014 14:15	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/11/2014 14:32	12/11/2014 14:32	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/12/2014 8:11	12/12/2014 9:02	0:52	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/12/2014 9:05	12/12/2014 9:05	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/12/2014 9:16	12/12/2014 9:18	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/12/2014 9:23	12/12/2014 9:24	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/12/2014 9:29	12/12/2014 9:51	0:23	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/12/2014 10:35	12/12/2014 10:51	0:17	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/12/2014 12:13	12/12/2014 12:15	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/12/2014 13:18	12/12/2014 13:18	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/12/2014 13:24	12/12/2014 13:29	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/12/2014 13:33	12/12/2014 13:33	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/13/2014 7:28	12/13/2014 8:53	2:28	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/13/2014 8:55	12/13/2014 16:41	6:47	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/13/2014 16:46	12/13/2014 16:47	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/13/2014 16:49	12/13/2014 16:57	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 7:46	12/14/2014 7:47	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 7:58	12/14/2014 7:59	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 8:43	12/14/2014 8:43	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 8:48	12/14/2014 8:55	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 8:58	12/14/2014 9:00	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 9:02	12/14/2014 9:02	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 9:05	12/14/2014 9:06	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 9:12	12/14/2014 9:13	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 9:17	12/14/2014 9:17	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 9:23	12/14/2014 9:23	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 9:35	12/14/2014 9:35	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 10:19	12/14/2014 10:19	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 10:21	12/14/2014 10:22	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 10:29	12/14/2014 10:29	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 10:32	12/14/2014 10:33	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 10:36	12/14/2014 10:37	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 10:43	12/14/2014 10:45	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 10:49	12/14/2014 10:49	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 10:52	12/14/2014 11:08	0:17	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 11:10	12/14/2014 11:18	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 11:19	12/14/2014 11:41	0:23	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 11:43	12/14/2014 11:56	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 11:59	12/14/2014 16:10	4:12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/14/2014 16:12	12/14/2014 16:53	0:42	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/15/2014 7:28	12/15/2014 7:44	0:17	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/15/2014 7:57	12/15/2014 8:38	0:42	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/15/2014 8:44	12/15/2014 8:54	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/15/2014 9:01	12/15/2014 9:01	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/15/2014 9:04	12/15/2014 9:17	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/15/2014 9:24	12/15/2014 9:29	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/15/2014 9:48	12/15/2014 10:20	0:33	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/15/2014 10:25	12/15/2014 11:21	0:57	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/15/2014 11:28	12/15/2014 12:05	0:38	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/15/2014 12:14	12/15/2014 12:14	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices

Maui Electric

Lanai Curtailment Report December 2014

Start Date/Time	Stop Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
12/15/2014 12:19	12/15/2014 12:22	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/15/2014 13:01	12/15/2014 13:25	0:25	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/15/2014 13:45	12/15/2014 13:57	0:13	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/15/2014 14:26	12/15/2014 14:48	0:21	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/15/2014 14:52	12/15/2014 15:01	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/15/2014 15:04	12/15/2014 15:15	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/15/2014 15:17	12/15/2014 15:17	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 9:27	12/16/2014 9:28	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 9:44	12/16/2014 9:44	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 9:50	12/16/2014 9:50	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 9:53	12/16/2014 9:54	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 9:56	12/16/2014 10:09	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 10:11	12/16/2014 10:24	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 10:26	12/16/2014 10:38	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 10:50	12/16/2014 10:57	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 10:59	12/16/2014 11:00	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 11:02	12/16/2014 11:09	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 11:10	12/16/2014 11:10	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 11:17	12/16/2014 11:18	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 11:29	12/16/2014 11:39	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 11:47	12/16/2014 11:51	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 11:58	12/16/2014 11:58	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 11:59	12/16/2014 11:59	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 12:01	12/16/2014 12:10	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 12:13	12/16/2014 12:22	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 12:26	12/16/2014 12:36	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 12:45	12/16/2014 13:29	0:45	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 13:33	12/16/2014 13:37	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 13:39	12/16/2014 14:23	0:45	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 14:28	12/16/2014 14:30	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 14:38	12/16/2014 15:02	0:25	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 15:09	12/16/2014 15:09	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 15:16	12/16/2014 15:19	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/16/2014 15:26	12/16/2014 15:29	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 7:53	12/17/2014 8:32	0:40	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 8:40	12/17/2014 8:42	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 8:46	12/17/2014 8:47	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 9:06	12/17/2014 9:09	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 9:12	12/17/2014 9:27	0:16	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 9:33	12/17/2014 9:36	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 9:44	12/17/2014 9:45	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 9:48	12/17/2014 9:59	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 10:02	12/17/2014 10:03	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 10:05	12/17/2014 10:09	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 10:11	12/17/2014 10:16	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 10:22	12/17/2014 10:22	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 10:28	12/17/2014 10:32	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 10:56	12/17/2014 11:07	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 11:12	12/17/2014 11:28	0:15	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 11:31	12/17/2014 11:32	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 11:34	12/17/2014 11:51	0:18	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 11:53	12/17/2014 11:58	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 12:00	12/17/2014 12:09	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 12:11	12/17/2014 12:18	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 12:20	12/17/2014 12:20	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 13:39	12/17/2014 13:52	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 13:57	12/17/2014 13:57	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 15:36	12/17/2014 15:47	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 15:49	12/17/2014 15:49	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 16:12	12/17/2014 16:59	0:48	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/17/2014 17:02	12/17/2014 17:04	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/18/2014 11:43	12/18/2014 12:18	0:36	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/18/2014 12:24	12/18/2014 12:25	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/18/2014 12:29	12/18/2014 14:46	2:18	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/18/2014 15:14	12/18/2014 15:14	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/18/2014 15:25	12/18/2014 15:32	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/18/2014 15:48	12/18/2014 16:03	0:16	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/18/2014 16:07	12/18/2014 16:07	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/18/2014 16:09	12/18/2014 17:00	0:52	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/19/2014 7:53	12/19/2014 12:11	4:19	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/19/2014 12:13	12/19/2014 12:18	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/19/2014 12:21	12/19/2014 12:44	0:24	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/19/2014 12:48	12/19/2014 13:39	0:54	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/19/2014 13:41	12/19/2014 14:36	0:56	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/19/2014 14:39	12/19/2014 15:24	0:46	LSR	Data is not available	Data is not available	Testing
12/19/2014 15:30	12/19/2014 16:42	1:13	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/20/2014 7:50	12/20/2014 8:08	0:19	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/20/2014 8:12	12/20/2014 9:20	1:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/20/2014 9:27	12/20/2014 9:29	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/20/2014 10:04	12/20/2014 12:21	2:18	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/20/2014 13:39	12/20/2014 13:39	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/20/2014 14:59	12/20/2014 15:04	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/20/2014 15:24	12/20/2014 15:26	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/20/2014 16:24	12/20/2014 16:38	0:15	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/20/2014 16:49	12/20/2014 17:14	0:26	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/21/2014 8:12	12/21/2014 8:12	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/21/2014 8:14	12/21/2014 8:36	0:23	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/21/2014 8:36	12/21/2014 8:36	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/21/2014 8:40	12/21/2014 8:40	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/21/2014 8:48	12/21/2014 8:48	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/21/2014 8:50	12/21/2014 8:50	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/21/2014 9:19	12/21/2014 9:20	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/21/2014 9:22	12/21/2014 9:40	0:19	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/21/2014 9:42	12/21/2014 9:42	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/21/2014 9:44	12/21/2014 10:33	0:50	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/21/2014 10:35	12/21/2014 11:06	0:32	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices

Maui Electric

Lanai Curtailment Report December 2014

Start Date/Time	Stop Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
12/21/2014 11:09	12/21/2014 16:47	5:39	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 8:11	12/22/2014 9:30	1:20	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 9:32	12/22/2014 10:30	0:58	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 10:32	12/22/2014 10:42	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 10:45	12/22/2014 10:56	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 10:59	12/22/2014 11:08	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 11:12	12/22/2014 11:18	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 11:21	12/22/2014 11:31	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 11:40	12/22/2014 12:15	0:36	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 12:17	12/22/2014 12:26	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 12:29	12/22/2014 12:29	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 12:31	12/22/2014 12:31	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 12:33	12/22/2014 12:36	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 12:43	12/22/2014 12:45	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 12:47	12/22/2014 12:50	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 13:22	12/22/2014 13:24	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 13:28	12/22/2014 13:28	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 13:32	12/22/2014 13:32	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 13:36	12/22/2014 13:37	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 14:20	12/22/2014 14:22	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 14:24	12/22/2014 14:24	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 14:26	12/22/2014 14:31	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 14:36	12/22/2014 14:44	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 15:09	12/22/2014 15:16	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 15:20	12/22/2014 15:23	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 16:34	12/22/2014 16:39	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/22/2014 17:12	12/22/2014 17:20	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 9:51	12/24/2014 10:03	0:13	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 10:05	12/24/2014 10:05	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 10:08	12/24/2014 10:26	0:19	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 10:28	12/24/2014 10:32	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 10:41	12/24/2014 10:43	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 10:51	12/24/2014 10:54	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 10:58	12/24/2014 11:01	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 11:10	*12/24/2014 11:10*	*0:01*	*LSR*	*Data is not available*	*Data is not available*	*Good Engineering and Operating Practices*
12/24/2014 11:16	12/24/2014 11:36	0:21	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 11:38	12/24/2014 11:51	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 11:56	12/24/2014 13:20	1:25	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 13:24	12/24/2014 13:30	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 13:33	12/24/2014 13:35	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 13:37	12/24/2014 13:41	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 13:43	12/24/2014 13:52	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 13:56	12/24/2014 14:00	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 14:04	12/24/2014 14:05	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 14:13	12/24/2014 14:13	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 14:15	12/24/2014 14:19	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 14:21	12/24/2014 14:32	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 14:37	12/24/2014 14:40	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 14:42	12/24/2014 14:57	0:18	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 14:59	12/24/2014 15:11	0:13	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 15:22	12/24/2014 15:22	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 15:36	12/24/2014 15:36	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 16:48	12/24/2014 16:49	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/24/2014 17:02	12/24/2014 17:08	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 8:56	12/25/2014 9:07	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 9:10	12/25/2014 9:34	0:25	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 9:36	12/25/2014 9:44	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 9:47	12/25/2014 9:52	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 9:54	12/25/2014 9:54	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 10:01	12/25/2014 10:01	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 10:06	12/25/2014 10:07	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 10:10	12/25/2014 10:15	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 10:20	12/25/2014 10:24	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 10:28	12/25/2014 10:51	0:24	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 10:55	12/25/2014 10:59	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 11:07	12/25/2014 11:19	0:13	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 11:23	12/25/2014 11:27	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 11:33	12/25/2014 11:33	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 11:39	12/25/2014 11:41	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 11:43	12/25/2014 11:55	0:13	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 11:58	12/25/2014 12:09	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 12:15	12/25/2014 12:15	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 12:19	12/25/2014 12:24	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 12:26	12/25/2014 12:35	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 12:39	12/25/2014 12:41	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 12:45	12/25/2014 12:55	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 12:57	12/25/2014 13:00	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 13:04	12/25/2014 13:14	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 13:16	12/25/2014 13:21	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 13:25	12/25/2014 13:32	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 13:34	12/25/2014 13:34	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 13:42	12/25/2014 13:47	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 13:51	12/25/2014 13:53	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 14:07	12/25/2014 14:12	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 14:15	12/25/2014 14:28	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 14:30	*12/25/2014 14:30*	*0:01*	*LSR*	*Data is not available*	*Data is not available*	*Good Engineering and Operating Practices*
12/25/2014 14:34	12/25/2014 14:34	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 14:40	12/25/2014 14:43	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 14:51	12/25/2014 14:52	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 14:56	12/25/2014 14:56	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 15:01	12/25/2014 15:02	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 15:04	12/25/2014 15:04	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 15:08	12/25/2014 15:08	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 15:10	12/25/2014 15:13	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 15:15	12/25/2014 15:15	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 15:17	12/25/2014 15:27	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices

Maui Electric

Lanai Curtailment Report December 2014

Start Date/Time	Stop Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
12/25/2014 15:34	12/25/2014 15:34	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 15:36	12/25/2014 15:37	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 15:38	12/25/2014 15:49	0:11	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 15:52	12/25/2014 16:09	0:16	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 16:11	12/25/2014 16:15	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 16:19	12/25/2014 16:21	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 16:26	12/25/2014 16:35	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 16:40	12/25/2014 16:59	0:20	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 17:01	12/25/2014 17:02	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/25/2014 17:05	12/25/2014 17:11	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 7:41	12/26/2014 7:52	0:12	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 7:57	12/26/2014 8:20	0:24	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 8:24	12/26/2014 8:24	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 8:29	12/26/2014 8:30	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 8:33	12/26/2014 8:35	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 8:37	12/26/2014 8:38	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 9:08	12/26/2014 10:46	1:39	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 10:48	12/26/2014 15:01	4:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 15:03	12/26/2014 15:08	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 15:10	12/26/2014 15:26	0:17	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 15:33	12/26/2014 15:33	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 15:38	12/26/2014 15:40	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 15:47	12/26/2014 15:47	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 15:49	12/26/2014 15:49	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 15:52	12/26/2014 15:53	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 15:56	12/26/2014 15:57	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 16:09	12/26/2014 16:09	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 16:13	12/26/2014 16:13	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 16:20	12/26/2014 16:20	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 16:23	12/26/2014 16:26	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 16:34	12/26/2014 16:39	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/26/2014 16:44	12/26/2014 16:58	0:15	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 7:24	12/27/2014 7:27	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 7:42	12/27/2014 9:01	1:20	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 9:03	12/27/2014 9:04	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 9:11	12/27/2014 9:11	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 9:18	12/27/2014 9:22	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 9:25	12/27/2014 9:25	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 9:51	12/27/2014 9:54	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 9:56	12/27/2014 10:04	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 10:08	12/27/2014 10:10	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 10:14	12/27/2014 10:14	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 10:16	12/27/2014 10:16	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 10:18	12/27/2014 10:18	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 10:23	12/27/2014 10:24	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 10:26	12/27/2014 10:33	0:08	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 10:35	12/27/2014 10:37	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 10:39	12/27/2014 10:39	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 10:51	12/27/2014 10:52	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 10:54	12/27/2014 11:00	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 11:28	12/27/2014 11:43	0:16	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 11:46	12/27/2014 11:50	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 11:53	12/27/2014 12:09	0:17	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 12:12	12/27/2014 12:13	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 12:15	12/27/2014 12:15	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 12:17	12/27/2014 12:17	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 12:20	12/27/2014 13:01	0:42	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 13:04	12/27/2014 13:08	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 13:11	12/27/2014 13:16	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 13:18	12/27/2014 13:18	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 13:21	12/27/2014 13:23	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 13:25	12/27/2014 13:26	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 13:30	12/27/2014 13:30	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/27/2014 13:34	12/27/2014 13:36	0:03	LSR	Data is not available	Data is not available	Testing
12/27/2014 13:39	12/27/2014 17:11	3:33	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/28/2014 8:01	12/28/2014 9:29	1:29	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/28/2014 9:31	12/28/2014 17:01	7:31	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/29/2014 8:07	12/29/2014 8:19	0:13	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/29/2014 8:27	12/29/2014 8:31	0:05	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/29/2014 8:47	12/29/2014 8:50	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/29/2014 8:54	12/29/2014 9:40	0:47	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/29/2014 9:44	12/29/2014 9:45	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/29/2014 9:47	12/29/2014 9:47	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/29/2014 10:06	12/29/2014 10:23	0:18	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/29/2014 10:25	12/29/2014 13:39	3:15	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/29/2014 13:41	12/29/2014 15:28	1:48	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/29/2014 15:30	12/29/2014 15:35	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/29/2014 15:37	12/29/2014 15:39	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/29/2014 15:42	12/29/2014 15:44	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/29/2014 15:46	12/29/2014 15:48	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/29/2014 16:58	12/29/2014 17:00	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/30/2014 9:56	12/30/2014 10:18	0:21	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/30/2014 10:23	12/30/2014 10:38	0:16	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/30/2014 11:17	12/30/2014 11:17	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/30/2014 11:34	12/30/2014 12:25	0:52	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/30/2014 12:27	12/30/2014 12:28	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/30/2014 12:30	12/30/2014 12:44	0:15	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/30/2014 12:47	12/30/2014 13:00	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/30/2014 13:03	12/30/2014 13:09	0:07	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/30/2014 13:11	12/30/2014 13:12	0:02	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/30/2014 13:16	12/30/2014 13:18	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/30/2014 13:21	12/30/2014 13:21	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/30/2014 13:23	12/30/2014 13:32	0:10	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/30/2014 13:38	12/30/2014 13:38	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/31/2014 7:59	12/31/2014 9:26	1:28	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/31/2014 9:33	12/31/2014 9:35	0:03	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices

Maui Electric

Lanai Curtailment Report December 2014

Start Date/Time	Stop Date/Time	Duration (h:mm)	IPP Curtailed	Estimated MWH Curtailed	Peak MW Curtailed	Reasons for Curtailment
12/31/2014 9:37	12/31/2014 9:55	0:19	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/31/2014 10:00	12/31/2014 10:13	0:14	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/31/2014 10:19	12/31/2014 10:24	0:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/31/2014 10:31	12/31/2014 10:31	0:01	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/31/2014 10:35	12/31/2014 10:43	0:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/31/2014 10:50	12/31/2014 11:58	1:09	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/31/2014 12:01	12/31/2014 12:04	0:04	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/31/2014 12:07	12/31/2014 12:30	0:24	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/31/2014 12:32	12/31/2014 13:23	0:52	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/31/2014 13:25	12/31/2014 14:30	1:06	LSR	Data is not available	Data is not available	Good Engineering and Operating Practices
12/31/2014 14:32	12/31/2014 16:48	2:17	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 December 2014

Start Date/Time	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released	Reason for Curtailment
12/15/14 22:22	18.9 MW	12/16/14 05:13	18.8 MW	High wind curtailment at Tawhiri's request.

[1] The MW output values are taken soon after curtailment is released by Hawai'i Electric Light and may not reflect their full output depending on ramp rate for the facility. The wind farms generally return immediately to full available levels, whereas PGV and Wailuku may take longer to return to scheduled or full available output levels.