

2016 JUL 26 P 3:49

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

PUBLIC UTILITIES COMMISSION

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 Companies¹ monthly report for June 2016 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 Companies are 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

c: 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".

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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 June 30, 2016):

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.

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

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 June 30, 2016):

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

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

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

Hawaiian Electric, Hawai'i Electric Light and Maui Electric did not have any under frequency load shed activations for the month of June. Therefore, Attachment 4 is not being provided for this reporting period.

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 is 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. Maui Electric executes a weekly testing protocol which measures customer participation. This program is not currently used in response to actual system events.

- (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.

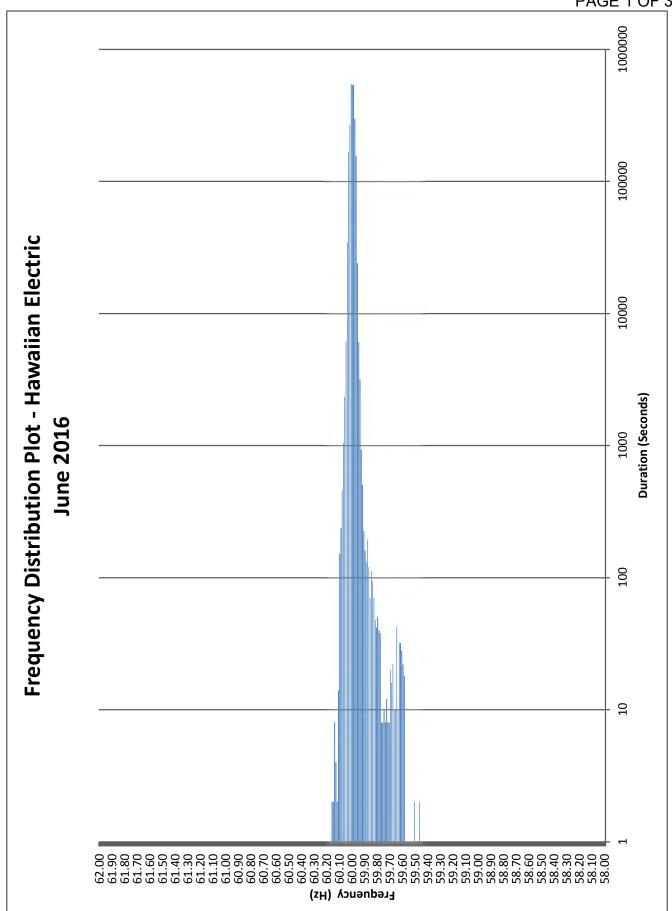
The following provides information with respect to items 3a) through 3b) – (all statements are current as of the month ending June 30, 2016):

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:

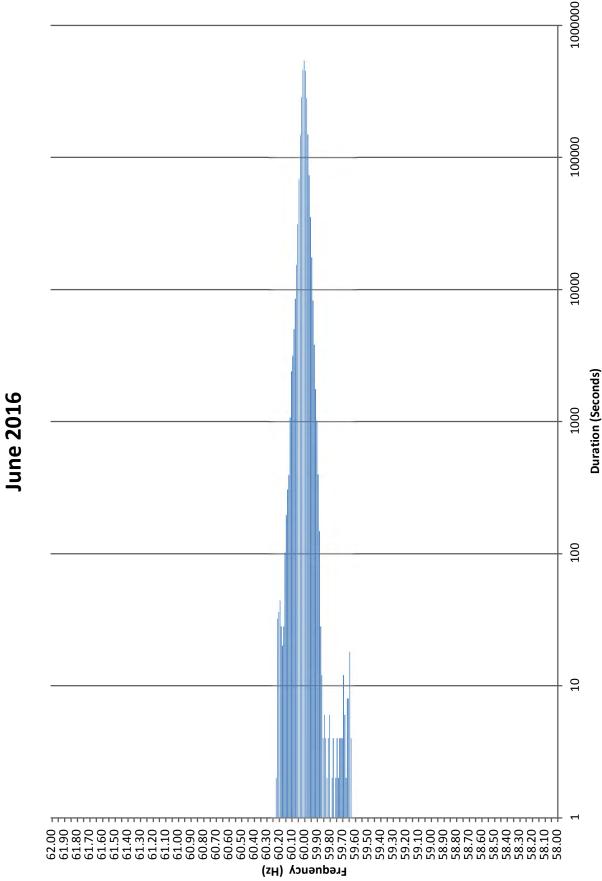
Curtailed MWH from non-dispatchable resources are difficult to determine due to the variability of the resource during curtailment periods. In some cases, the curtailed MWH estimates were provided by the IPPs under curtailment. The Hawaiian Electric Companies do not make any representations as to the 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.



DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(1)(a) **ATTACHMENT 1**

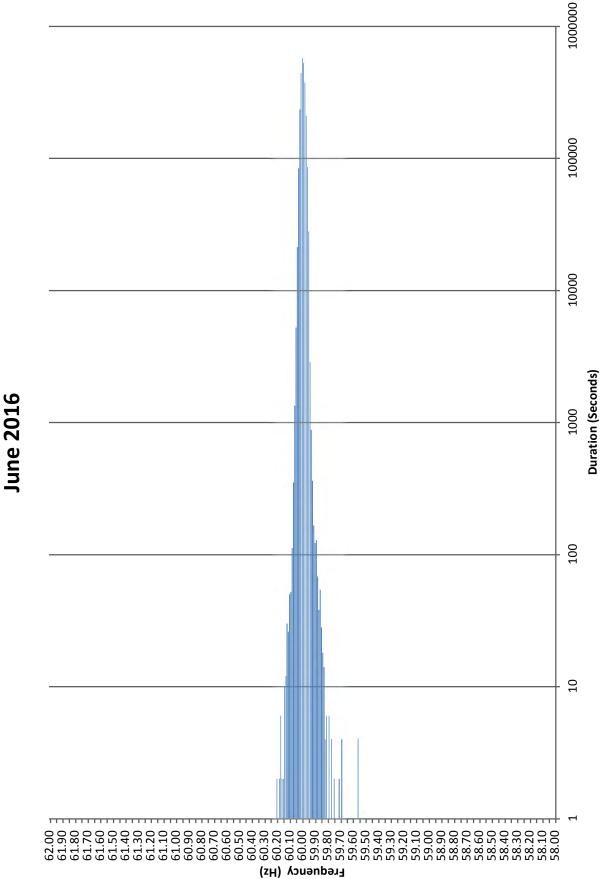
PAGE 1 OF 3

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(1)(a) ATTACHMENT 1 PAGE 2 OF 3



Maui Electric Frequency Distribution Plot - Maui June 2016

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(1)(a) ATTACHMENT 1 PAGE 3 OF 3



Frequency Distribution Plot - Hawai'i Electric Light June 2016

DOCKET NO. 2011-0206 ORDER NO. 30371 9.C.(1)(b) ATTACHMENT 2 PAGE 1 OF 3

Hawaiian Electric Frequency Excursion Statistics								
June 2016								
Data Rounded to the nearest	<59.95 Hz	>60.05 Hz						
Number of Excursions	510	495						
Maximum Duration (sec)	858	314						
Maximum Deviation (Hz)	59.466	60.162						
Total Duration of Excursions (sec)	8422	6004						

DOCKET NO. 2011-0206 ORDER NO. 30371 9.C.(1)(b) ATTACHMENT 2 PAGE 2 OF 3

Maui Electric Frequency Excursion Statistics							
June 2016							
	<59.95 Hz	>60.05 Hz					
Number of Excursions	9145	7153					
Maximum Duration (sec)	482	764					
Maximum Deviation (Hz)	59.629	60.2157					
Total Duration of Excursions (sec)	47348	49174					

DOCKET NO. 2011-0206 ORDER NO. 30371 9.C.(1)(b) ATTACHMENT 2 PAGE 3 OF 3

Hawai'i Electric Light Frequency Excursion Statistics							
June 2016							
	<59.95 Hz	>60.05 Hz					
Number of Excursions	3818	773					
Maximum Duration (sec)	116	116					
Maximum Deviation (Hz)	59.559	60.204					
Total Duration of Excursions (sec)	16750	3750					

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(2)(a) ATTACHMENT 3 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. CONTINGENCY RESERVE ACTIVATION EVENTS JUNE 2016

		F	requency (H	z)	Spinning		
Event #	Date & Time	Prior to Event	Nadir	Trigger	Spinning Reserve Shortfall (MW)	Duration (HH:MM)	Description
1	06/01/16 10:45	59.99	59.91	NA	0.00	0:01	HPOWER TG2 tripped offline while generating ~9 MW.
2	06/06/16 03:56	59.86	59.80	NA	0.00	0:01	AES decreased output from ~156 MW and tripped offline.
3	06/07/16 08:24	59.92	59.88	NA	-1.00	0:01	W5 tripped offline while generating ~7 MW. W10 called online for spinning reserve.
4	06/08/16 08:25	59.89	59.88	NA	0.00	0:00	W5 tripped offline while generating ~2 MW. W9 called online as replacement Waiau PP base load unit.
5	06/09/16 02:16	60.00	59.77	NA	0.00	0:04	K2 tripped offline while generating ~34 MW.
6	06/13/16 05:29	59.95	59.93	NA	0.00	0:00	HPOWER TG2 tripped offline while generating ~4 MW.
7	06/25/16 18:50	60.00	60.00	NA	-1.00	0:00	W10 tripped offline while generating ~3 MW. W9 called online for spinning reserve.
8	06/26/16 00:55	60.00	59.96	NA	0.00	0:19	HPOWER TG1 tripped offline while generating ~5 MW.
9	06/28/16 08:27	60.02	59.84	NA	0.00	0:07	K4 tripped offline while generating ~32 MW.
10	06/29/16 20:27	60.00	59.95	NA	-2.00	0:01	W9 tripped offline while generating ~7.5 MW.
11	06/30/16 05:56	60.03	59.47	NA	-31.00	0:16	K4 tripped offline while generating ~72 MW. W10 called online for spinning reserve.
12	06/30/16 06:03	59.90	59.61	NA	-92.00	0:07	KL Steam turbine tripped offline while generating ~45 MW. CIP called online for spinning reserve.

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(2)(B) ATTACHMENT 4 PAGE 1 OF 1

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DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(2)(c) ATTACHMENT 5 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. DEMAND RESPONSE EVENTS JUNE 2016

		Frequency (Hz)					
Event #	Date & Time	Prior to Event	Nadir	Trigger	Load Shed (MW)	Duration (HH:MM)	Description
1	06/30/16 05:56	60.03	59.47	59.7	NA	0.02	K4 tripped offline while generating ~72 MW. RDLC and CIDLC activated.
2	06/30/16 06:03	59.90	59.61	59.7	NA	1 0.02	KL Steam turbine tripped offline while generating ~45 MW. RDLC activated.

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 1 OF 12

Hawaiian Electric Curtailment Report June 2016

					Estimated						
				MW output	MWh of						
		MW output		after	curtailed						
	Curtailment	prior to start		curtailment	energy during						
Start Date/Time	Set Point	of curtailment	End Date/Time	released	event (1)	IPP	Reason for Curtailment				
06/14/16 06:47	0.0	22.40	06/14/16 18:49	0	*	KWF	System constraints				
06/14/16 07:00	0.0	8.40	06/14/16 18:55	0	*	Makai	System constraints				
06/14/16 07:01	0.0	21.70	06/14/16 08:37	0	*	Mauka	System constraints				
06/14/16 16:51	0.0	30.00	06/14/16 18:56	0	*	Mauka	System constraints				
06/19/16 17:41	0.0	19.00	06/19/16 18:12	0	*	Mauka	System constraints				

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 estimated 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.

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 2 OF 12



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
6/1/2016 6:32	0:21	KWPII	0.750		Oversupply
6/1/2016 7:31	0:20	AWE	0.224	1.133	Oversupply
6/1/2016 9:59	0:02	KWPII	0.027	19.183	Oversupply
6/1/2016 10:03	0:20	KWPII	0.811	19.206	Oversupply
6/1/2016 10:24	0:01	KWPII	0.000	19.008	Oversupply
6/1/2016 10:35	0:06	KWPII	0.104	19.195	
6/1/2016 10:49	0:22	KWPII	1.091	19.210	Oversupply
6/1/2016 11:16	1:13	KWPII	8.438	19.209	Oversupply
6/1/2016 12:53	1:57	KWPII	13.848		Oversupply
6/1/2016 15:53 6/2/2016 4:25	0:09	KWPII AWE	0.324	20.618	Oversupply Oversupply
6/2/2016 12:24	0:26	KWPII	1.496	18 200	Oversupply
6/2/2016 18:13	0:20		0.039	19.431	Oversupply
6/3/2016 10:49	0:03	KWPII	0.039	4.959	Oversupply
6/4/2016 9:40	0:01	AWE	0.000	0.007	Oversupply
6/4/2016 9:50	0:01	AWE	0.000	0.007	Oversupply
6/4/2016 9:57	0:01	AWE	0.000	0.007	Oversupply
6/5/2016 19:13	0:01	AWE	0.000		Oversupply
6/6/2016 2:25	0:01	KWPII	0.012	11.973	Oversupply
6/6/2016 2:27	0:02	KWPII	0.050	12.040	Oversupply
6/6/2016 2:33	0:01	KWPII	0.001	11.086	Oversupply
6/6/2016 2:40 6/6/2016 5:19	0:01	KWPII KWPII	0.007	12.948	Oversupply Oversupply
6/6/2016 5:42	0:22	KWPII	0.775	20.165	Oversupply
6/6/2016 6:39	0:14		0.603		Oversupply
6/6/2016 8:24	0:02	KWPII	0.022	20.634	Oversupply
6/6/2016 8:47	0:04	KWPII	0.073	20.658	Oversupply
6/6/2016 9:15	0:41	KWPII	2.710	20.621	Oversupply
6/6/2016 9:58	0:14	KWPII	0.638	20.424	Oversupply
6/6/2016 10:19	0:12		0.946	19.601	Oversupply
6/6/2016 10:34	0:08	KWPII	0.292	19.247	Oversupply
6/6/2016 10:44	0:03	KWPII	0.064	19.566	Oversupply
6/6/2016 10:48	0:31	KWPII	1.941	19.664	Oversupply
6/6/2016 11:20	2:00	KWPII	19.393		Oversupply
6/6/2016 12:19 6/6/2016 13:25	0:01	AWE KWPII	0.024	10.003	Oversupply Oversupply
6/6/2016 13:25	0:01	KWPII	0.004		Oversupply
6/6/2016 15:15	0:05	KWPII	0.160	17 067	Oversupply
6/6/2016 15:31	0:01		0.680		Oversupply
6/6/2016 15:52	0:02		0.019		Oversupply
6/6/2016 21:15	0:01	KWPII	0.003		Oversupply
6/7/2016 0:10	0:25	KWPII	0.450	20.644	Oversupply
6/7/2016 0:36	0:01	KWPII	0.001	20.625	Oversupply
6/7/2016 0:38	0:01	KWPII	0.004		Oversupply
6/7/2016 0:40	0:15		0.269	20.615	Oversupply
6/7/2016 2:33	0:02	KWPII	0.018		Oversupply
6/7/2016 3:29	0:01	KWPII	0.002	20.429	Oversupply
6/7/2016 4:39	0:01	KWPII	0.003		Oversupply
6/7/2016 8:00 6/7/2016 8:17	0:01	KWPII KWPII	0.006	18.051	Oversupply Oversupply
6/7/2016 8:32	0:02	KWPII	0.019		Oversupply
6/7/2016 9:11	0:02	KWPII	0.012	20.085	Oversupply
6/7/2016 9:14	0:02	KWPII	0.012	20.003	Oversupply
6/7/2016 9:19	0:02	KWPII	0.009	20.092	Oversupply
6/7/2016 9:25	0:40	KWPII	1.945	20.468	Oversupply
6/7/2016 10:06	4:48	KWPII	81.200	20.594	Oversupply
6/7/2016 11:16	0:03	AWE	0.012	11.773	Oversupply
6/7/2016 11:22	0:25	AWE	1.310	17.280	Oversupply
6/7/2016 11:48	0:02	AWE	0.034	16.507	Oversupply
6/7/2016 11:53	0:26	AWE	2.079	21.000	Oversupply
6/7/2016 12:23	1:46	AWE	11.906	21.000	Oversupply
6/7/2016 14:11	0:05	AWE	0.160	20.123	Oversupply
6/7/2016 14:19 6/7/2016 14:29	0:09	AWE AWE	0.298 0.018	21.000	Oversupply Oversupply
6/7/2016 14:32	0:02	AWE	0.018	18.663	
6/7/2016 14:39	0:01	AWE	0.004	21.000	Oversupply
6/7/2016 14:44	0:03	AWE	0.003	21.000	Oversupply
6/7/2016 14:57	2:05	KWPII	18.615	20.664	Oversupply
6/7/2016 18:44	0:03	KWPII	0.023	20.706	Oversupply
6/7/2016 19:38	0:01	KWPII	0.001	20.700	Oversupply
6/7/2016 23:22	0:01	KWPII	0.006	20.648	Oversupply
6/7/2016 23:38	0:05	KWPII	0.045		Oversupply
6/7/2016 23:56	0:09	KWPII	0.054	20.484	Oversupply
6/8/2016 0:09	0:05	KWPII	0.043		Oversupply
6/8/2016 0:15	0:58	KWPII	3.969	20.186	Oversupply
6/8/2016 1:15 6/8/2016 1:19	0:03	KWPII KWPII	0.043	18.406 18.881	Oversupply Oversupply
6/8/2016 1:19	0:07	KWPII	0.217	188.01 מכי פו	Oversupply
6/8/2016 1:39	2:10	KWPII	11.054	18.330	
6/8/2016 3:51	0:19	KWPII	0.708	18.391	Oversupply
6/8/2016 4:18	0:02	KWPII	0.038	17.595	Oversupply
6/8/2016 4:37	0:13	KWPII	0.484	17.632	Oversupply
6/8/2016 6:37	0:04	KWPII	0.114	14.845	Oversupply
6/8/2016 8:42	0:01	KWPII	0.013		Oversupply
6/8/2016 8:49	0:03	KWPII	0.044	18.322	Oversupply
6/8/2016 8:53	0:02	KWPII	0.010	16.944	Oversupply
6/8/2016 8:56	0:02	KWPII KWPII	0.016	15.885	Oversupply
6/8/2016 9:53 6/8/2016 10:18	0:16	KWPII KWPII	0.739	16.657	Oversupply Oversupply
6/8/2016 10:18	0:02	KWPII	0.037	12.904	Oversupply
6/8/2016 10:25	0:03	KWPII	0.049		Oversupply Oversupply
6/8/2016 10:32	0:03	KWPII	0.110		Oversupply
6/8/2016 12:04	0:02	KWPII	0.108		Oversupply
6/8/2016 12:32	0:01	KWPII	0.100	14.567	Oversupply
6/9/2016 0:22	0:01	KWPII	0.015	19.633	Oversupply
6/9/2016 0:24	2:55	KWPII	46.133	20.707	Oversupply
6/9/2016 2:06	0:11	AWE	0.244	10.133	Oversupply
6/9/2016 2:24	0:03	AWE	0.066		Oversupply
6/9/2016 2:28	0:07	AWE	0.149		Oversupply
6/9/2016 2:36	0:31	AWE	2.357		Oversupply
6/9/2016 3:08	0:02	AWE	0.025		Oversupply
6/9/2016 3:22 6/9/2016 5:36	2:13	KWPII KWPII	22.127		Oversupply Oversupply
6/9/2016 5:36	0:02	KWPII KWPII	0.001	20.137	Oversuppiy Oversuppiy
6/9/2016 6:54	0:05	KWPII	0.064		Oversupply
0/3/2010 0.34	0.01		5.010	20.372	FF-7

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 3 OF 12



Maui Curtailment Report

	Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
	6/9/2016 6:58	0:01	KWPII	0.003	20.471	Oversupply
	6/9/2016 7:01			0.005		
	6/9/2016 7:03	0:08	KWPII	0.114		
	6/9/2016 7:57	0:11				
	6/9/2016 8:11	0:13	KWPII	0.493		
	6/9/2016 8:28	0:02	KWPII	0.028	19.589	Oversupply
	6/9/2016 8:33	0:02	KWPII	0.004		
	6/9/2016 8:41	0:02	KWPII	0.033	20.310	Oversupply
1907105 190 0001 1.5 190 0001 1005105 191 0001 1.6 1000 0000 1005105 191 0001 1.6 1000 0000 1005105 191 000 1.6 1000 0000 1005007 191 000 1.6 0000 0000 1005007 191 000 1.6 0000 0000 000 000 000 000 0000 000 <td< td=""><td>6/9/2016 8:47</td><td>0:09</td><td>KWPII</td><td>0.334</td><td></td><td></td></td<>	6/9/2016 8:47	0:09	KWPII	0.334		
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					20.688	Oversupply
Social 51 8.6 NVT 0.05						
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					20.701	Oversupply
BUDRE 12 25 XVM 1-125 XVR 1-125 <						
					20.698	Oversupply
PUBURE 50 AVE 0.15 0.5					20.575	Oversupply
					15.627	Oversupply
UPU018180 CSU NAT 11.30 20.30 UPU021810 CSU NAW 0.02 1.170 UPU021812 CO NAW 0.02 1.170 UPU021812 CO NAW 0.02 1.170 UPU021812 CO NAW 0.02 1.070 UPU021812 CO NAW 0.02 1.070 UPU0218124 CO NAW 0.02 1.020 UPU02181240 CO NAW 0.02 0.020 UPU02181240 CO NAW 0.02 0.020 UPU02181240 CO NAW 0.02 0.020 UPU02181010 CO NAW 0.02 0.020 UPU021811010					15.497	Oversupply
Chick 19Chick 19	6/10/2016 2:52	0:06	AWE	0.117	14.380	Oversupply
Chick 19Chick 19					20.686	Oversupply
					12.527	Oversupply
Propert 5.27OrderOrderOrderOrder0000000000000000000000000000000000	6/10/2016 3:11				16.683	Oversupply
		0:02	AWE	0.022	8.270	Oversupply
	6/10/2016 3:43				20.701	Oversupply
					12.953	Oversupply
					13.457	Oversupply
					20,699	Oversupply
					20.579	Oversupply
G 182016 11 2.28 NOPI 4.482 2.858 Oversagey G 182016 120 0.01 AVE 0.024 2.850 Oversagey G 182016 120 0.01 AVE 0.024 2.830 Oversagey G 182016 120 0.01 AVE 0.01 2.800 Oversagey G 182016 120 0.01 AVE 0.00 2.800 Oversagey G 182016 120 0.01 AVE 0.00 2.800 Oversagey G 182016 113 0.01 AVE 0.00 2.800 Oversagey G 182016 114 0.01 AVE 0.00 2.800 Oversagey G 182016 114 0.01 AVE 0.00 2.800 Oversagey G 182016 115 0.01					20.010	Oversupply
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effsyntiszs 0.05 AVV 0.000 18.000 Genapy effsyntiszs 0.01 AVV 0.024 2.000 Genapy effsyntists 0.01 AVV 0.014 2.000 Genapy effsyntists 0.012 AVV 0.014 2.000 Genapy effsyntists 0.014 AVV 0.014 2.000 Genapy effsyntists 0.014 AVV 0.016 2.000 Genapy effsyntists 0.014 AVV 0.000 2.000 Genapy effsyntists 0.015 AVV 0.000 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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					20.990	Oversupply
61/02/01 03 AVE 0.014 21.000 Vestagay 61/02/01 03 0.01 AVE 0.105 21.000 Vestagay 61/02/01 112 0.01 AVE 0.015 21.000 Vestagay 61/02/01 112 0.03 AVE 0.017 21.000 Vestagay 61/02/01 112 0.03 AVE 0.017 21.000 Vestagay 61/02/01 112 0.03 AVE 0.017 21.000 Vestagay 61/02/01 113 0.03 AVE 0.017 21.000 Vestagay 61/02/01 114 0.03 AVE 0.010 21.000 Vestagay 61/02/01 12.00 0.04 AVE 0.010 21.000 Vestagay 61/02/01 12.00 0.01 AVE 0.010 11.200 Vestagay 61/02/01 12.00 0.01 0.010 11.200 Vestagay 61/02/01 13.40 0.02 0.010 11.200 Vestagay 61/02/01 13.41 0.000 NVPH 0.015 1					20.987	Oversupply
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64702016 1136 0.051 AVVE 0.001 21.000 Oversignity 64702016 1136 0.03 AVVE 0.001 21.000 Oversignity 64702016 1230 0.031 AVVE 0.001 21.000 Oversignity 64702016 1230 0.031 AVVE 0.031 14.874 Oversignity 64702016 1230 0.031 NAVIE 0.031 14.874 Oversignity 64702016 1330 0.031 NAVIE 0.031 14.874 Oversignity 64702016 1330 0.032 NAVIE 0.031 14.874 Oversignity 64702016 1320 0.032 NAVIE 0.031 14.874 Oversignity 64702016 1320 0.032 NAVIE 0.048 15.70 Oversignity	6/10/2016 11:26	0:06	AWE	0.064	21.000	Oversupply
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61020151143 138 KWPH 13580 Messagay 61020151143 0.00 AVE 0.001 21.000 Vestagay 61020151143 0.00 AVE 0.001 21.000 Vestagay 61020151150 0.00 AVE 0.001 21.000 Vestagay 6102015120 0.00 AVE 0.001 21.000 Vestagay 6102015120 0.00 AVE 0.001 21.000 Vestagay 6102015120 0.00 KVPI 0.110 11.20 Vestagay 6102015133 0.00 KVPI 0.128 Vestagay Vestagay 6102015134 0.00 KVPI 0.058 11.200 Vestagay 6102015134 0.00 KVPI 0.058 11.200 Vestagay 6112015135 0.00 KVPI 0.016 11.200 Vestagay 6112016134 0.00 KVPI 0.016 11.200 Vestagay 6112016135 0.00 KVPI 0.000 <td>6/10/2016 11:39</td> <td>0:03</td> <td>AWE</td> <td>0.017</td> <td></td> <td></td>	6/10/2016 11:39	0:03	AWE	0.017		
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61020161148 0.54 AVE 0.500 21.000 Quespays 61020161120 0.01 AVE 0.001 21.000 Quespays 61020161120 0.01 AVE 0.001 21.000 Quespays 61020161120 0.01 AVE 0.001 21.000 Quespays 61020161120 0.008 KWPH 0.108 11.424 Quespays 61020161133 0.008 KWPH 0.108 11.424 Quespays 6102016133 0.03 KWPH 0.108 14.320 Quespays 6102016123 0.03 K					21.000	Oversupply
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6/11/2016 13:10 0:03 AWE 0.019 21:000 Oversupply 6/11/2016 13:20 AWE 0.005 20:80 Oversupply 6/11/2016 13:20 0:05 AWE 0.039 21:000 Oversupply 6/11/2016 13:20 0:05 AWE 0.039 21:000 Oversupply 6/11/2016 13:28 0:04 AWE 0.021 20:80 Oversupply 6/11/2016 13:28 0:04 AWE 0.021 20:80 Oversupply 6/11/2016 15:28 0:04 AWE 0.021 20:80 Oversupply 6/11/2016 15:22 0:04 KWPI 14:224 17:92 Oversupply 6/11/2016 15:52 0:00 KWPI 0.009 17:65 Oversupply 6/11/2016 15:54 0:12 KWPII 0.354 17:82 Oversupply 6/11/2016 15:47 0:33 KWPII 0.010 13:127 Oversupply						
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6/11/2016 13:20 0:05 AWE 0:039 21:000 Oversupply 6/11/2016 13:28 0:04 AWE 0:021 20:853 Oversupply 6/11/2016 13:28 1:34 KWPII 14:224 17:922 Oversupply 6/11/2016 15:27 0:004 KWPII 0:14:24 17:932 Oversupply 6/11/2016 15:27 0:004 KWPII 0:009 17:850 Oversupply 6/11/2016 15:37 0:014 KWPII 0:009 17:850 Oversupply 6/11/2016 15:34 0:12 KWPII 0:0364 17:870 Oversupply 6/11/2016 15:34 0:12 KWPII 0:0364 17:870 Oversupply 6/11/2016 15:34 0:01 KWPII 2:235 19:152 Oversupply 6/11/2016 15:30 0:01 KWPII 0:010 13:127 Oversupply 6/11/2016 15:30 0:01 KWPI 0:010 13:127 Oversupply 6/11/2016 15:30 0:01 KWPI 0:010 13:127 Over						
6/11/2016 13:28 0.04 AWE 0.021 20.853 Oversupply 6/11/2016 13:45 1.34 KWPI 14.284 17.992 Oversupply 6/11/2016 15:47 0.00 KWPII 0.104 17.993 Oversupply 6/11/2016 15:27 0.00 KWPII 0.009 17.656 Oversupply 6/11/2016 15:27 0.01 KWPII 0.034 17.870 Oversupply 6/11/2016 15:34 0.12 KWPII 0.364 17.870 Oversupply 6/11/2016 15:37 0.01 KWPII 2.235 19.152 Oversupply 6/11/2016 15:37 0.02 KWPII 2.235 19.152 Oversupply 6/11/2016 15:30 0.01 KWPII 2.235 19.152 Oversupply 6/11/2016 15:30 0.01 KWPI 0.000 19.127 Oversupply 6/11/2016 15:40 0.001 KWP 0.000 0.002 Oversupply 6/11/2016 10:10 0.01 KWP 0.000 0.003 Oversupply						
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6/11/2016 13:45 1:34 KWPII 14:284 17.992 (Versupply 6/11/2016 15:22 0:04 KWPII 0.104 17.993 (Versupply 6/11/2016 15:27 0:01 KWPII 0.009 17.656 (Versupply 6/11/2016 15:34 0:12 KWPII 0.0364 17.856 (Versupply 6/11/2016 15:34 0:12 KWPII 0.364 17.870 (Versupply 6/11/2016 15:34 0:12 KWPII 2.255 19.152 (Versupply 6/11/2016 15:30 0:01 KWPII 2.255 19.127 (Versupply 6/11/2016 15:30 0:01 KWPII 0.010 19.127 (Versupply 6/12/2016 10:10 0:01 KWPI 0.000 0.003 (Versupply 6/12/2016 10:10 0:01 KWP 0.000 0.003 (Versupply		0:04				
6/11/2016 15:22 0:03 KWPII 0:104 17:99 Oversupply 6/11/2016 15:27 0:01 KWPII 0:009 17:66 Oversupply 6/11/2016 15:37 0:12 KWPII 0:0364 17:878 Oversupply 6/11/2016 15:37 0:33 KWPII 0:364 17:878 Oversupply 6/11/2016 15:37 0:33 KWPII 2:235 19:152 Oversupply 6/11/2016 15:30 0:001 KWPI 0:010 19:12 Oversupply 6/11/2016 15:30 0:001 KWPI 0:010 19:12 Oversupply 6/11/2016 16:30 0:001 KWP 0:000 0:003 Oversupply 6/12/2016 10:10 0:001 KWP 0:000 0:005 Oversupply 6/12/2016 10:40 0:001 KWP 0:000 0:005 Oversupply	6/11/2016 13:45	1:34		14.284	17.992	Oversupply
6/11/2016 15:27 0:01 KWPII 0.009 17.656 Oversupply 6/11/2016 15:34 0:12 KWPII 0.364 17.878 Oversupply 6/11/2016 15:37 0:33 KWPII 2.235 11.12 Oversupply 6/11/2016 16:30 0:01 KWPII 2.035 11.12 Oversupply 6/11/2016 16:30 0:01 KWPI 0.010 19.12 Oversupply 6/12/2016 10:10 0:01 KWP 0.000 0.003 Oversupply 6/12/2016 10:10 KWP 0.000 0.003 Oversupply 6/12/2016 10:10 KWP 0.000 0.005 Oversupply	6/11/2016 15:22				17.993	Oversupply
6/11/2016 15:34 0.12 KWPI 0.364 17.870 (Versupply) 6/11/2016 15:37 0:33 KWPI 2.235 19.152 (Versupply) 6/11/2016 15:30 0.01 KWPI 0.010 19.122 (Versupply) 6/12/2016 10:10 0.001 KWP 0.000 0.023 (Versupply) 6/12/2016 10:10 0.001 KWP 0.000 0.003 (Versupply) 6/12/2016 10:10 KWP 0.000 0.003 (Versupply)	6/11/2016 15:27	0:01	KWPII	0.009	17.656	Oversupply
6/11/2016 15:47 0:33 KWPII 2:235 19:152 Oversupply 6/11/2016 10:00 KWPI 0.010 19:127 Oversupply 6/12/2016 0:01 KWPI 0.000 19:127 Oversupply 6/12/2016 0:01 KWP 0.000 0.003 Oversupply 6/12/2016 0:01 KWP 0.000 0.003 Oversupply	6/11/2016 15:34	0:12	KWPII	0.364	17.878	Oversupply
6/11/2016 10:30 0:001 KWPI 0.010 19.127 Oversupply 6/12/2016 10:10 0:01 KWP 0.000 0.003 Oversupply 6/12/2016 10:40 0:01 KWP 0.000 0.005 Oversupply	6/11/2016 15:47	0:33	KWPII	2.235	19.152	Oversupply
6/12/2016 10:10 0:01 KWP 0.000 0.003 Oversupply 6/12/2016 10:46 0:01 KWP 0.000 0.005 Oversupply					19.127	Oversupply
6/12/2016 10:46 0:01 KWP 0:000 0:005 Oversuppy						
6/12/2016 18:28 0:04 KWPII 0.054 18:886 Oversupply					0,005	Oversupply
Let a see a					18,886	Oversupply
		2.01		5.001		

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 4 OF 12



Maui Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
6/12/2016 22:09	0:06	KWPII	0.098	19.114	Oversupply
6/12/2016 22:21	0:40	KWPII	3.226	19.211	Oversupply
6/12/2016 23:10	0:12	KWPII	0.937	19.139	
6/12/2016 23:36	0:06	KWPII	0.129	19.201	Oversupply
6/13/2016 0:30	1:00	KWPII	5.160	19.206	Oversupply
6/13/2016 1:34 6/13/2016 1:59	0:24 4:06	KWPII KWPII	1.291 31.982	18.783 19.211	Oversupply
6/13/2016 9:34	0:04	KWPII	0.007	19.194	Oversupply Oversupply
6/13/2016 10:25	0:06	KWPII	0.061	17.714	Oversupply
6/13/2016 10:32	0:01	KWPII	0.004	17.698	Oversupply
6/13/2016 10:40	0:03	KWPII	0.030	17.714	
6/13/2016 10:49	0:02	KWPII	0.013	17.694	Oversupply
6/13/2016 10:52	0:01	KWPII	0.002	17.682	Oversupply
6/13/2016 11:15	0:02	KWPII	0.016	17.666	Oversupply
6/13/2016 11:44	1:01	KWPII	4.245	19.211	
6/13/2016 12:47 6/13/2016 12:57	0:09	KWPII KWPII	0.197	19.161 17.827	Oversupply Oversupply
6/13/2016 13:00	0:01	KWPII	0.034	18.996	Oversupply
6/14/2016 0:04	0:29	KWPII	1.508	19.082	
6/14/2016 0:41	0:47	KWPII	3.176	19.210	Oversupply
6/14/2016 1:29	0:01	KWPII	0.004	18.667	Oversupply
6/14/2016 1:46	3:47	KWPII	21.809	19.211	Oversupply
6/14/2016 5:36	0:39	KWPII	2.560	19.211	Oversupply
6/14/2016 6:24 6/14/2016 6:26	0:01	KWPII KWPII	0.005	19.209 19.203	Oversupply
6/14/2016 6:29	0:02	KWPII	0.003	19.203	Oversupply Oversupply
6/14/2016 6:37	0:02	KWPII	0.002	19.211	Oversupply
6/14/2016 6:39	0:04	KWPII	0.040	19.211	Oversupply
6/14/2016 9:04	0:03	KWPII	0.027	19.206	Oversupply
6/14/2016 9:15	0:02	KWPII	0.013	19.191	Oversupply
6/14/2016 14:46	0:08	KWPII	0.174	19.211	Oversupply
6/14/2016 22:45	0:10	KWPII	0.188	19.211	Oversupply
6/15/2016 0:19 6/15/2016 0:56	0:19 0:15	KWPII KWPII	0.509	19.208 19.211	
6/15/2016 0:56	4:47	KWPII	38.567	19.211	Oversupply Oversupply
6/15/2016 9:52	0:07	KWPII	0.149	19.211	Oversupply
6/15/2016 10:23	1:42	KWPII	7.317	19.211	Oversupply
6/15/2016 12:32	0:06	KWPII	0.076	19.202	
6/15/2016 12:39	0:02	KWPII	0.030	19.176	Oversupply
6/15/2016 13:08	0:01	KWPII	0.015	18.921	Oversupply
6/15/2016 13:35	0:05	KWPII	0.054	19.211	
6/15/2016 13:44	0:03	KWPII	0.024	19.194	Oversupply
6/15/2016 13:52 6/16/2016 0:10	0:01 0:17	KWPII KWPII	0.001 0.549	18.850 19.211	
6/16/2016 0:45	5:07	KWPII	34.791	19.211	Oversupply Oversupply
6/16/2016 5:53	0:01	KWPII	0.017	19.211	Oversupply
6/16/2016 8:47	0:16	KWPII	0.706	19.211	System constraint
6/16/2016 9:06	0:03	KWPII	0.011	19.207	System constraint
6/16/2016 9:10	0:17	KWPII	0.616	19.211	System constraint
6/16/2016 10:14	0:01	KWPII	0.001	19.174	Oversupply
6/16/2016 10:27	0:03	KWPII	0.035	19.211	
6/16/2016 10:38	0:17	KWPII	0.803	19.211	Oversupply
6/16/2016 10:58 6/16/2016 11:15	0:01	KWPII KWPII	0.013 0.010	19.211 19.211	
6/16/2016 11:15	0:01	KWPII	0.010	19.211	Oversupply Oversupply
6/16/2016 11:30	0:00	KWPII	0.166	19.211	Oversupply
6/16/2016 11:49	0:02	KWPII	0.021	19.211	
6/16/2016 11:57	0:11	KWPII	0.593	19.208	Oversupply
6/16/2016 12:21	2:06	KWPII	10.333	19.211	
6/17/2016 0:38	0:13	KWPII	0.818	19.211	Oversupply
6/17/2016 0:53	1:08	KWPII	8.127		Oversupply
6/17/2016 2:04	0:32	KWPII	1.876	19.211	Oversupply
6/17/2016 3:13 6/17/2016 8:49	0:04	KWPII KWPII	0.022	19.211 19.211	
6/17/2016 8:53	0:03	KWPII	0.036	19.211	
6/17/2016 9:19	0:03	KWPII	0.031	19.211	
6/17/2016 9:23	0:02	KWPII	0.015		Oversupply
6/17/2016 9:29	0:21	KWPII	0.962	19.211	Oversupply
6/17/2016 9:51	0:23	KWPII	0.793		Oversupply
6/17/2016 10:23	0:13	KWPII	0.403	19.211	
6/17/2016 10:42	0:02	KWPII	0.016		Oversupply
6/17/2016 10:55 6/17/2016 11:28	0:07	KWPII KWPII	0.219 7.240		Oversupply Oversupply
6/17/2016 12:49	2:04	KWPII	18.451	19.211	Oversupply
6/17/2016 14:54	0:04	KWPII	0.059		Oversupply
6/17/2016 14:59	0:03	KWPII	0.029	19.206	Oversupply
6/17/2016 15:03	0:01	KWPII	0.009	19.210	Oversupply
6/17/2016 15:07	0:05	KWPII	0.028		Oversupply
6/17/2016 15:14	0:05	KWPII	0.035		Oversupply
6/17/2016 23:57 6/18/2016 0:10	0:07	KWPII KWPII	0.146		Oversupply Oversupply
6/18/2016 2:48	0:14	KWPII	0.865		Oversupply
6/18/2016 2:56	0:06	KWPII	0.201		Oversupply
6/18/2016 3:03	0:01	KWPII	0.002		Oversupply
6/18/2016 3:27	0:02	KWPII	0.017	19.211	Oversupply
6/18/2016 3:30	0:02	KWPII	0.015	19.211	Oversupply
6/18/2016 3:33	0:03	KWPII	0.023		Oversupply
6/18/2016 3:42	0:01	KWPII	0.004		Oversupply
6/18/2016 3:48 6/18/2016 3:58	0:08	KWPII	0.051 0.010		Oversupply Oversupply
6/18/2016 3:58	0:02	KWPII	0.010		Oversuppiy
6/18/2016 4:16	0:00	KWPII	0.120		Oversuppiy
6/18/2016 4:18	0:01	KWPII	0.003		Oversupply
6/18/2016 8:19	5:43	KWPII	79.136		Oversuppiy
6/18/2016 11:37	2:02	AWE	5.994	21.000	Oversupply
6/18/2016 13:40	0:15	AWE	0.087		Oversupply
6/18/2016 14:03	1:12	KWPII	12.063		Oversupply
6/18/2016 15:16	0:07	KWPII	0.146		Oversupply
6/18/2016 15:24 6/18/2016 15:26	0:01	KWPII KWPII	0.016		Oversupply Oversupply
6/18/2016 15:26	0:03	KWPII	0.012		Oversupply
6/18/2016 15:32	0:01	KWPII	0.000		Oversuppiy
6/18/2016 15:39	0:03	KWPII	0.037	18.823	Oversupply
6/18/2016 23:28	0:04	KWPII	0.063	19.141	Oversupply
6/19/2016 0:02	0:01	KWPII	0.002	19.203	Oversupply

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 5 OF 12



Maui Curtailment Report

		Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
1000175 000 0.00 1.00 0.00 00000175 000 0.00 0.00 0.00 00000175 0.00 0.00 0.00 0.00 00000170 0.00 0.00 0.00 0.00 00000170 0.00 0.00 0.00 0.00 00000170 0.00 0.00 0.00 0.00 0.00 00000170 0.00 0.00 0.00 0.00 0.00 00000170 0.00 0.00 0.00 0.00 0.00 00000170 0.00 0.00 0.00 0.00 0.00 00000170 0.00 0.00 0.00 0.00 0.00 00000170 0.00 0.00 0.00 0.00 0.00 00000170 0.00 0.00 0.00 0.00 0.00 00000170 0.00 0.00 0.00 0.00 0.00 00000170 0.00 0.00 0.00 0.00 0.00 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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Phone Constraint Constraint Constraint Constraint Constraint Constraint Constraint Constraint Constrai	6/19/2016 10:54	0:01	AWE	0.002	21.000	Oversupply
0.0000 7.000 0.000 7.000 0.00000 7.000 0.000 7.000 0.00000 7.000 0.000 7.000 7.000 0.00000 7.000 0.000 7.000 7.000 7.000 0.00000 7.000 0.000 7.000 7.000 7.000 0.00000 7.000 0.000 7.000 7.000 7.000 0.00000 7.000 0.000 7.000 7.000 7.000 0.00000 7.000 0.000 7.000 7.000 7.000 0.00000 7.000 0.000 7.000 7.000 7.000 0.000000 7.000 0.000 7.000 7.000 7.000 0.000000000 7.000 0.000 7.000 7.000 7.000 0.00000000000000000000000000000000000	6/19/2016 10:56	0:02	AWE	0.008	21.000	Oversupply
9000000000000000000000000000000000000	6/19/2016 11:00	0:02	AWE	0.007	21.000	Oversupply
9000000000000000000000000000000000000	6/19/2016 11:03	0:01	AWE	0.001	20.727	Oversupply
				0.044		
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640011300 0.00 KKPP 0.00 14.21 Overagly 66001131 0.01 AVE 0.21 0.22 0.22 0.01	6/19/2016 13:28		AWE	0.002		
6.00016.30 C/2 KWPI 1.05 0.55 0.544 6.00016.30 C/2 KWPI 0.05 15.24 0.545 6.00016.51 C/2 KWPI 0.05 15.37 0.545 6.00016.51 C/2 KWPI 0.05 15.37 0.556 6.00016.51 C/2 KWPI 0.05 15.37 0.556 0.556 6.00016.51 C/2 KWPI 0.057 15.37						
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6222016 837 0.008 KWPI 0.119 2007 Versuppy 6222016 938 0.032 KWPI 0.035 2882 Versuppy 6222016 918 0.032 KWPI 0.035 2882 Versuppy 6222016 918 0.032 KWPI 0.037 2882 Versuppy 6222016 913 0.037 KWPI 0.037 2882 Versuppy 6222016 913 0.037 KWPI 0.037 2884 Versuppy 6222016 913 0.037 KWPI 0.037 2894 Versuppy 6222016 938 0.03 KWPI 0.035 1439 Versuppy 6222016 938 0.03 KWPI 0.035 1449 Versuppy 6222016 930 0.31 KWPI 0.035 1489 Versuppy 6222016 930 0.31 KWPI 0.035 1499 Versuppy	6/22/2016 3:19	0:01	KWPII	0.006	19.123	Oversupply
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6/23/2016 13:35 0:06 KWPII 0:038 20.708 Oversupply 6/23/2016 13:35 0:22 KWPII 0.726 21.708 Oversupply 6/23/2016 13:35 0:22 KWPII 0.006 20.700 Oversupply 6/23/2016 14:35 0:02 KWPII 0.006 20.708 Oversupply 6/23/2016 14:35 0:02 KWPII 0.001 20.708 Oversupply 6/25/2016 0:03 0:01 KWPII 0.004 20.708 Oversupply 6/25/2016 0:03 0:01 KWPII 0.005 22.718 Oversupply 6/25/2016 0:03 KWPII 0.005 22.719 Oversupply 6/25/2016 0:03 KWPII 38.422 20.708 Oversupply 6/25/2016 0:45 0:03 AWE 0.032 21.000 Oversupply 6/25/2016 0:45 0:03 AWE 0.032 21.000 Oversupply 6/25/2016 0:45 0:03 KWPI 4.670 13.211 Oversupply	6/23/2016 11:16	0:01				
6/23/2016 13:54 0:22 KWPII 0.728 20.708 Oversupply 6/23/2016 13:54 0:05 KWPII 0.066 20.707 Oversupply 6/23/2016 13:55 0:02 KWPII 0.001 20.708 Oversupply 6/25/2016 0:03 0:01 KWPII 0.004 20.708 Oversupply 6/25/2016 0:03 0:01 KWPII 0.004 20.708 Oversupply 6/25/2016 0:03 0:01 KWPII 0.005 26.791 Facility Requested 6/25/2016 0:03 4:44 KWPII 38.422 20.708 Oversupply 6/25/2016 0:45 0:03 AWE 0.032 21.000 Oversupply 6/25/2016 0:45 1:03 AWE 0.032 21.000 Oversupply	6/23/2016 11:16 6/23/2016 13:01					
6/23/2016 14:25 0:05 KWP1I 0:066 20.707 Oversupply 6/23/2016 14:25 0:02 KWP1I 0:001 20.708 Oversupply 6/25/2016 003 0:01 KWP1I 0:004 20.708 Oversupply 6/25/2016 0:14 0:03 KWP 0:056 26.791 Facility requested 6/25/2016 0:23 4:44 KWP1 38.422 20.708 Oversupply 6/25/2016 0:43 0:03 AWE 0:032 21.000 Oversupply 6/25/2016 0:43 0:03 AWE 0:032 21.000 Oversupply	6/23/2016 11:16 6/23/2016 13:01 6/23/2016 13:03	0:01				
6/23/2016 14:35 0:02 KWPII 0:001 20:708 Oversupply 6/25/2016 0:03 0:01 KWPII 0:004 20:708 Oversupply 6/25/2016 0:03 0:01 KWPII 0:005 22:6110; regularities 6/25/2016 0:03 KWPI 0:055 22:710; regularities 60:25:2016 0:03 6/25/2016 0:03 4:44 KWPII 38:422 20:708 Oversupply 6/25/2016 0:45 0:03 AWE 0:032 21:000 Oversupply 6/25/2016 0:45 0:03 AWE 0:032 21:000 Oversupply	6/23/2016 11:16 6/23/2016 13:01 6/23/2016 13:03 6/23/2016 13:03 6/23/2016 13:45	0:01				
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6/25/2016 0:14 0:03 KWP 0.056 26./91 Pacility requested 6/25/2016 0:23 4:44 KWP1 33.422 20.708 Oversupply 6/25/2016 0:45 0:03 AWE 0.032 21.000 Oversupply 6/25/2016 0:45 1:19 KWP1 4.670 19.211 Oversupply	6/23/2016 11:16 6/23/2016 13:01 6/23/2016 13:03 6/23/2016 13:45 6/23/2016 13:54 6/23/2016 13:54	0:01 0:06 0:22 0:05	KWPII KWPII	0.066		
6/25/2/016 0/23 4:44 KWPII 38:422 20:08 Oversupply 6/25/2/016 0/45 0:03 AWE 0:032 21:000 Oversupply 6/25/2/016 8/40 1:19 KVVPII 4:670 112:211 Oversupply	6/23/2016 11:16 6/23/2016 13:01 6/23/2016 13:03 6/23/2016 13:03 6/23/2016 13:54 6/23/2016 14:26 6/23/2016 14:25	0:01 0:06 0:22 0:05 0:05	KWPII KWPII KWPII	0.066 0.001	20.708	Oversupply
6/25/2016 0/45 0:03 AWE 0.032 21.000 Oversupply 6/25/2016 8:40 1:19 KWPII 4.670 19:211 Oversupply	6/23/2016 11:16 6/23/2016 13:01 6/23/2016 13:03 6/23/2016 13:35 6/23/2016 13:35 6/23/2016 13:54 6/23/2016 14:35 6/23/2016 14:35 6/23/2016 14:35	0:01 0:06 0:22 0:05 0:05 0:02	KWPII KWPII KWPII KWPII	0.066 0.001 0.004	20.708 20.708	Oversupply Oversupply
6/25/2016 8:40 1:19 KWPII 4.670 19:211 Oversupply	6/23/2016 11:16 6/23/2016 13:03 6/23/2016 13:03 6/23/2016 13:03 6/23/2016 13:54 6/23/2016 14:26 6/23/2016 14:25 6/23/2016 10:03 6/25/2016 0:13	0:01 0:06 0:22 0:05 0:02 0:02 0:01 0:03	KWPII KWPII KWPII KWPII KWP	0.066 0.001 0.004 0.056	20.708 20.708 26.791	Oversuppiy Oversuppiy Facility requested
	6/23/2016 11:16 6/23/2016 13:01 6/23/2016 13:03 6/23/2016 13:34 6/23/2016 13:34 6/23/2016 13:34 6/23/2016 13:34 6/23/2016 13:34 6/23/2016 10:03 6/25/2016 00:33	0:01 0:22 0:25 0:05 0:02 0:07 0:03 0:03 0:03 0:03	KWPII KWPII KWPII KWPII KWP KWPII	0.066 0.001 0.004 0.056 38.422	20.708 20.708 26.791 20.708	Oversupply Oversupply Facility requested Oversupply
	6/23/2016 11:16 6/23/2016 13:01 6/23/2016 13:03 6/23/2016 13:45 6/23/2016 13:45 6/23/2016 13:45 6/23/2016 14:25 6/23/2016 01:4 6/23/2016 01:4 6/25/2016 01:4 6/25/2016 01:23 6/25/2016 01:23	0:01 0:22 0:02 0:02 0:02 0:02 0:01 0:03 0:03	KWPII KWPII KWPII KWP KWP KWPII AWE	0.066 0.001 0.004 0.056 38.422 0.032	20.708 20.708 26.791 20.708 21.000	Oversuppiy Oversuppiy Facility requested Oversuppiy Oversuppiy Oversuppiy
6/25/2016 10:03 0:01 KWPII 0.003 18:928 Oversupply	6/23/2016 11:16 6/23/2016 13:01 6/23/2016 13:03 6/23/2016 13:45 6/23/2016 13:45 6/23/2016 13:45 6/23/2016 14:26 6/23/2016 14:25 6/25/2016 01:35 6/25/2016 01:45 6/25/2016 01:45 6/25/2016 01:45	0:01 0:06 0:22 0:05 0:02 0:03 0:03 0:03 4:44 0:03 0:03 1:19	KWPII KWPII KWPII KWP KWPII AWE KWPII	0.066 0.001 0.004 0.056 38.422 0.032 4.670	20.708 20.708 26.791 20.708 21.000 19.211	Oversupply Oversupply Facility requested Oversupply Oversupply Oversupply

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) **ATTACHMENT 6 PAGE 6 OF 12**



Maui Curtailment Report

June 2016

	-				
Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
6/25/2016 10:16	0:01	KWPII	0.026	19.080	Oversupply
6/25/2016 10:27	0:20	KWPII	1.050		Oversupply
6/25/2016 10:49 6/25/2016 10:55	0:04	KWPII	0.075	19.052	Oversupply
6/25/2016 10:55	0:02	KWPII KWPII	0.025		Oversupply
6/25/2016 10:56	0.27	KWPII	3.592		Oversupply Oversupply
6/25/2016 11:38	1:02	KWPII	1.555	10.104	Oversupply
6/25/2016 12:41	0:10		0.583		Oversupply
6/25/2016 12:56	0:04		0.103	18 643	Oversupply
6/25/2016 13:23	0:09	KWPII	0.749		Oversupply
6/25/2016 13:33	0:55		6.546		Oversupply
6/25/2016 15:04	0:03	KWPII	0.055	19.201	Oversupply
6/25/2016 22:50	0:36	KWPII	1.721	19.211	Oversupply
6/26/2016 1:56	0:01		0.000	0.007	Oversupply
6/26/2016 2:07	0:01	KWPII	0.010		Oversupply
6/26/2016 2:09	0:07	KWPII	0.142		Oversupply
6/26/2016 11:58	0:01	KWPII	0.015		Oversupply
6/26/2016 12:12	0:01	KWPII	0.025		Oversupply
6/26/2016 12:20	1:48	KWPII	9.539	18.901	Oversupply
6/26/2016 14:29	0:02		0.004		Oversupply
6/26/2016 14:32	0:02	KWPII	0.033	19.056	Oversupply
6/26/2016 14:35	0:07		0.163	18.697	Oversupply
6/26/2016 14:56	0:01		0.010	18.813	Oversupply
6/26/2016 22:59	0:01	KWPII	0.006	19.210	Oversupply
6/27/2016 0:03	0:07		0.236		Oversupply
6/27/2016 0:11 6/27/2016 0:20	0:08	KWPII KWPII	0.387		Oversupply
				19.171	Oversupply
6/27/2016 2:15	0:03	KWPII KWPII	0.034		Oversupply
6/27/2016 2:19 6/27/2016 2:21	0:01	KWPII KWPII	0.012		Oversupply Oversupply
6/27/2016 2:21	0:03	KWPII KWPII	0.038		Oversupply Oversupply
6/27/2016 2:31	0:06	KWPII KWPII	0.115		Oversupply Oversupply
6/27/2016 2:43	0:04	KWPII	0.051		Oversupply
6/27/2016 2:54	0:01		0.003		Oversupply
6/27/2016 2:59	0:03	KWPII	0.008	10.307	Oversupply
6/27/2016 2:53	0:03		0.095	10.020	Oversupply
6/27/2016 3:16	0:12	KWPII	0.829		Oversupply
6/27/2016 3:35			0.025	18 507	Oversupply
6/27/2016 4:00	0:05		0.166		Oversupply
6/27/2016 4:18	0:02	KWPII	0.021		Oversupply
6/27/2016 4:32	0:35	KWPII	3.177		Oversupply
6/27/2016 5:16	0:07	KWPII	0.227		Oversupply
6/27/2016 5:24	0:15		0.494	19.200	Oversupply
6/27/2016 5:55	0:09	KWPII	0.283		Oversupply
6/27/2016 9:44	1:34	KWPII	10.973	20.698	Oversupply
6/27/2016 11:19	0:02	KWPII	0.051		Oversupply
6/27/2016 11:22	0:02	KWPII	0.053		Oversupply
6/27/2016 11:44	0:02	KWPII	0.032		Oversupply
6/27/2016 13:34	0:15	KWPII	0.915	19.184	Oversupply
6/27/2016 13:50	0:14	KWPII	0.531	19.140	Oversupply
6/27/2016 23:46	0:10	KWPII	0.148	20.564	Oversupply
6/27/2016 23:57	0:07	KWPII	0.169	20.434	
6/28/2016 0:06	0:06	KWPII	0.103		Oversupply
6/28/2016 0:19	0:05				Oversupply
6/28/2016 0:46		KWPII	0.061	20.697	Oversupply Oversupply
	0:03	KWPII	0.061 0.026	20.697 20.363	Oversupply Oversupply Oversupply
6/28/2016 3:07	0:03	KWPII KWPII	0.061 0.026 0.003	20.697 20.363 20.672	Oversupply Oversupply Oversupply Oversupply
6/28/2016 3:07 6/28/2016 3:21	0:03 0:02 0:40	KWPII KWPII KWPII	0.061 0.026 0.003 2.437	20.697 20.363 20.672 20.691	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
6/28/2016 3:07 6/28/2016 3:21 6/28/2016 4:40	0:03 0:02 0:40 0:05	KWPII KWPII KWPII KWPII	0.061 0.026 0.003 2.437 0.125	20.697 20.363 20.672 20.691 20.601	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
6/28/2016 3:07 6/28/2016 3:21 6/28/2016 4:40 6/28/2016 4:59	0:02 0:02 0:40 0:05 0:01	KWPII KWPII KWPII KWPII KWPII	0.061 0.026 0.003 2.437 0.125 0.001	20.697 20.363 20.672 20.691 20.601 20.669	Oversupply
6/28/2016 3:07 6/28/2016 3:21 6/28/2016 4:40 6/28/2016 4:59 6/28/2016 5:02	5 0:03 0:02 0:40 0:05 0:01 0:01	KWPII KWPII KWPII KWPII KWPII KWPII	0.061 0.026 0.003 2.437 0.125 0.001 0.001	20.697 20.363 20.672 20.691 20.691 20.601 20.669 20.673	Oversupply
6/28/2016 3:07 6/28/2016 3:21 6/28/2016 4:34 6/28/2016 4:59 6/28/2016 5:02 6/28/2016 5:24	0:03 0:02 0:40 0:05 0:01 0:01	KWPII KWPII KWPII KWPII KWPII KWPII KWPII	0.081 0.026 0.003 2.437 0.125 0.001 0.007 0.000	20.697 20.363 20.672 20.691 20.691 20.691 20.673 20.673 19.660	Oversupply
6/28/2016 3:07 6/28/2016 3:21 6/28/2016 4:40 6/28/2016 4:52 6/28/2016 5:02 6/28/2016 5:23 6/28/2016 5:38	0:03 0:02 0:40 0:05 0:01 0:02 0:01 0:02	KWPII KWPII KWPII KWPII KWPII KWPII KWPII	0.081 0.026 0.003 2.437 0.125 0.001 0.007 0.000 0.120	20.697 20.363 20.672 20.601 20.601 20.669 20.673 19.660 20.690	Oversupply
6/28/2016 3:07 6/28/2016 3:27 6/28/2016 4:40 6/28/2016 4:50 6/28/2016 5:02 6/28/2016 5:32 6/28/2016 5:38 6/28/2016 5:38	0:03 0:02 0:40 0:05 0:01 0:02 0:01 0:02 0:04	KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII	0.061 0.028 0.003 2.437 0.125 0.001 0.007 0.000 0.000 0.020 0.020	20.697 20.363 20.672 20.691 20.6801 20.689 20.673 19.660 20.690 20.690	Oversupply
6/28/2016 3:01 6/28/2016 3:21 6/28/2016 4:44 6/28/2016 4:55 6/28/2016 5:52 6/28/2016 5:52 6/28/2016 5:55 6/28/2016 5:55 6/28/2016 5:55	0:03 0:02 0:40 0:05 0:01 0:02 0:01 0:02 0:04 0:04 0:02	KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII	0.081 0.026 0.003 2.437 0.125 0.001 0.000 0.000 0.120 0.000 0.120 0.000 0.120 0.000	20.697 20.363 20.672 20.691 20.691 20.669 20.673 19.860 20.690 20.707 20.707	Oversupply
6/28/2016 3:07 6/28/2016 3:21 6/28/2016 3:44 6/28/2016 4:59 6/28/2016 5:02 6/28/2016 5:32 6/28/2016 5:32 6/28/2016 5:55 6/28/2016 5:55 6/28/2016 1:55	0:03 0:02 0:04 0:05 0:01 0:02 0:01 0:02 0:04 0:03 0:04 0:03	KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII	0.061 0.028 0.003 0.125 0.001 0.007 0.000 0.120 0.000 0.120 0.086 0.018 0.005	20.897 20.363 20.672 20.691 20.601 20.609 20.673 19.660 20.707 20.684 11.475	Oversupply
6/28/2016 3:07 6/28/2016 3:21 6/28/2016 3:21 6/28/2016 4:55 6/28/2016 5:24 6/28/2016 5:24 6/28/2016 5:25 6/28/2016 5:35 6/28/2016 7:57 6/28/2016 7:57 6/28/2016 7:57 6/28/2016 7:57 6/28/2016 7:57	0:03 0:02 0:04 0:04 0:01 0:01 0:02 0:01 0:04 0:03 0:04 0:03 0:01 0:01	KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII	0.081 0.026 0.003 2.437 0.125 0.001 0.000 0.000 0.000 0.120 0.000 0.000 0.000 0.008 0.018 0.008	20.697 20.363 20.672 20.691 20.601 20.693 19.660 20.893 20.707 20.884 17.475 16.932	Oversupply Oversupply
6/28/2016 3:07 6/28/2016 3:07 6/28/2016 4:40 6/28/2016 4:40 6/28/2016 5:22 6/28/2016 5:22 6/28/2016 5:25 6/28/2016 5:55 6/28/2016 5:55 6/28/2016 19:25 6/28/2016 19:25 6/28/2016 19:25 6/28/2016 19:25	0:02 0:102 0:102 0:01 0:01 0:01 0:01 0:0	KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII	0.081 0.026 0.003 2.437 0.125 0.001 0.000 0.120 0.000 0.120 0.000 0.120 0.005 0.005 0.005 0.0080	20.697 20.363 20.672 20.691 20.601 20.669 20.673 19.660 20.890 20.707 20.084 17.475 16.932 17.152	Oversupply Ov
6/28/2016 3:07 6/28/2016 3:21 6/28/2016 3:21 6/28/2016 4:52 6/28/2016 5:22 6/28/2016 5:22 6/28/2016 5:23 6/28/2016 5:25 6/28/2016 7:57 6/28/2016 7:57 6/28/2016 9:25 6/29/2016 10:15	20:0 20:0 20:0 20:0 20:0 20:0 20:0 20:0	KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII	0.081 0.028 0.003 2.437 0.125 0.001 0.000 0.000 0.000 0.000 0.0086 0.008 0.008 0.008 0.008 0.008 0.008	20.697 20.363 20.672 20.691 20.601 20.669 20.673 19.660 20.399 20.707 20.834 17.475 16.932 17.762 12.510	Oversupply
6/28/2016 3:07 6/28/2016 3:21 6/28/2016 4:55 6/28/2016 4:55 6/28/2016 5:02 6/28/2016 5:32 6/28/2016 5:32 6/28/2016 10:25 6/28/2016 10:25 6/28/2016 10:25 6/28/2016 9:25 6/29/2016 9:25 6/29/2016 10:11 6/29/2016 11:11	0:02 0:102 0:40 0:01 0:01 0:01 0:02 0:02 0:02 0:02 0:0	KWPII	0.081 0.026 0.003 2.437 0.125 0.001 0.000 0.120 0.000 0.120 0.000 0.010 0.000 0.018 0.0080 0.0080 0.080 0.034 0.041	20.697 20.363 20.672 20.691 20.607 20.669 20.673 19.660 20.890 20.707 20.884 17.475 16.932 17.182 12.510 16.837	Oversupply Ov
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Curtailment for Kaheawa Wind Power ('KWP'), Makila Hydroelectinc ('MH'), AAAAA Rent-A-Space Mau LTD ('5A'), Bioreal Solar, LLC ('BS'), Auwahi Wind Energy ('AWE'), Kaheawa Wind Power II ('KWPII') Bioreal Solar 250, LLC ('BS260') may now be controlled by Maui Electric's Automatic Generation Control System ('AGC') or a Maui Electric operator-entered curtailment limit. The AGC curtailment control automatically calculates the amount of Maximum Allowable Variable Generation ('MAVG') that Maui Electric can accept into the Maui system, based on the system current available variable generation ('CAVG'), regulating reserve down requirement ('RRDR'), and available regulating reserve down ('ARRD'). Thus, the AGC MAVG - calculated is equal to CAVG less (RRDR less ARRD). Additionally, the AGC curtailment control allows the Maui Electric operator to enter an AGC MAVG value. The AGC curtailment control will employ the esser of the AGC MAVG - calculated and AGC MAVG - entered values in the control logic. The Estimated Curtaired www H and Peak WW Curtaired are calculated with information provided by AVE. KWP, and KWP/I. Mau Electric does not make any representation as to its accuracy

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DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 7 OF 12



Lanai Curtailment Report

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6/5/2016 17:25 0:03 LSR Data is not available Dersupply 6/5/2016 8:39 0:01 LSR Data is not available Dersupply 6/5/2016 8:39 0:03 LSR Data is not available Dersupply 6/5/2016 8:39 0:03 LSR Data is not available Dersupply 6/5/2016 8:32 0:03 LSR Data is not available Dersupply 6/5/2016 9:03 0:56 LSR Data is not available Dersupply 6/5/2016 10:20 0:52 LSR Data is not available Dersupply 6/5/2016 10:24 0:04 LSR Data is not available Dersupply 6/5/2016 10:25 0:04 LSR Data is not available Oversupply 6/5/2016 10:25 0:04 LSR Data is not available Oversupply 6/5/2016 10:25 0:04 LSR Data is not available Oversupply 6/5/2016 11:13 0:04 LSR Data is not available Oversupply 6/5/2016 11:13 0:04 LSR Data is not available	6/5/2016 12:54					
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6/6/2016 10:20 0:02 LSR Data is not available Data is not available Oversupply 6/6/2016 10:24 0:04 LSR Data is not available Data is not available Oversupply 6/6/2016 10:29 0:04 LSR Data is not available Data is not available Oversupply 6/6/2016 10:35 0:34 LSR Data is not available Data is not available Oversupply 6/6/2016 11:13 0:04 LSR Data is not available Data is not available Oversupply 6/6/2016 11:13 0:04 LSR Data is not available Data is not available Oversupply 6/6/2016 11:20 0:01 LSR Data is not available Data is not available Oversupply 6/6/2016 11:20 0:01 LSR Data is not available Data is not available Oversupply 6/6/2016 11:38 0:01 LSR Data is not available Data is not available Oversupply	6/6/2016 8:42					
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Gr/6/2016 11:13 0:04 LSR Data is not available Oversupply 6/6/2016 11:20 0:01 LSR Data is not available Data is not available Oversupply 6/6/2016 11:38 0:01 LSR Data is not available Data is not available Oversupply 6/6/2016 11:38 0:01 LSR Data is not available Data is not available Oversupply	6/6/2016 10:29					
6/6/2016 11:20 0:01 LSR Data is not available Data is not available Oversupply 6/6/2016 11:38 0:01 LSR Data is not available Data is not available Oversupply	6/6/2016 10:35 6/6/2016 11:13					
	6/6/2016 11:20					
v/o/2015 13:4/ U104 LSK [Data is not available] Data is not available [Oversupply]	6/6/2016 11:38					Oversupply
	0/0/2010 13:4/	0:04	LSR	uata is not available	uata is not available	oversuppiy

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 8 OF 12



Lanai Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
6/6/2016 13:53	1:16	LSR	Data is not available	Data is not available	Oversupply
6/6/2016 15:15	0:05	LSR	Data is not available	Data is not available	Oversupply
6/6/2016 15:27	0:07	LSR	Data is not available	Data is not available	Oversupply
6/6/2016 15:40 6/6/2016 16:17	0:17	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/6/2016 16:21	0:59	LSR	Data is not available	Data is not available	Oversupply
6/6/2016 17:22	0:51	LSR	Data is not available	Data is not available	Oversupply
6/7/2016 6:45	6:23	LSR	Data is not available	Data is not available	Oversupply
6/7/2016 13:10 6/8/2016 6:47	5:12	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/8/2016 9:15	1:39	LSR	Data is not available	Data is not available	Oversupply
6/8/2016 10:55	0:04	LSR	Data is not available	Data is not available	Oversupply
6/8/2016 11:03	0:01	LSR	Data is not available	Data is not available	Oversupply
6/8/2016 11:10 6/8/2016 11:25	0:01	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply -
6/8/2016 11:42	0:03	LSR	Data is not available	Data is not available	Oversupply Oversupply
6/8/2016 11:50	0:01	LSR	Data is not available	Data is not available	Oversupply
6/8/2016 11:57	0:10	LSR	Data is not available	Data is not available	Oversupply
6/8/2016 13:57 6/8/2016 14:16	0:14	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply
6/8/2016 14:20	0:05	LSR	Data is not available	Data is not available	Oversupply Oversupply
6/8/2016 14:26	0:23	LSR	Data is not available	Data is not available	Oversupply
6/8/2016 14:52	0:02	LSR	Data is not available	Data is not available	Oversupply
6/8/2016 15:12	2:37	LSR	Data is not available	Data is not available	Oversupply
6/8/2016 18:08 6/9/2016 6:40	0:03	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/9/2016 6:56	0:13	LSR	Data is not available	Data is not available	Oversupply
6/9/2016 7:11	0:19	LSR	Data is not available	Data is not available	Oversupply
6/9/2016 8:33	0:03	LSR	Data is not available	Data is not available	Oversupply
6/9/2016 8:37	0:12	LSR	Data is not available	Data is not available	Oversupply
6/9/2016 9:34 6/9/2016 12:01	0:01	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/9/2016 13:22	0:01	LSR	Data is not available	Data is not available	Oversupply
6/9/2016 13:27	0:01	LSR	Data is not available	Data is not available	Oversupply
6/9/2016 13:30	0:04	LSR	Data is not available	Data is not available	Oversupply
6/9/2016 14:40	0:09	LSR	Data is not available	Data is not available	Oversupply
6/9/2016 16:18 6/10/2016 6:18	2:05	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/10/2016 9:16	0:13	LSR	Data is not available	Data is not available	Oversupply
6/10/2016 9:31	0:39	LSR	Data is not available	Data is not available	Oversupply
6/10/2016 10:22	0:01	LSR	Data is not available	Data is not available	Oversupply
6/10/2016 10:29 6/10/2016 11:02	0:02	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/10/2016 11:20	0:02	LSR	Data is not available	Data is not available	Oversupply
6/10/2016 11:32	0:01	LSR	Data is not available	Data is not available	Oversupply
6/10/2016 11:34	0:29	LSR	Data is not available	Data is not available	Oversupply
6/10/2016 12:08 6/10/2016 12:11	0:02	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/10/2016 12:36	0:03	LSR	Data is not available	Data is not available	Oversupply
6/10/2016 14:27	0:10	LSR	Data is not available	Data is not available	Oversupply
6/10/2016 14:39	0:26	LSR	Data is not available	Data is not available	Oversupply
6/10/2016 15:06	0:36	LSR	Data is not available	Data is not available	Oversupply
6/10/2016 15:43 6/10/2016 15:50	0:05	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/10/2016 15:58	0:05	LSR	Data is not available	Data is not available	Oversupply
6/10/2016 16:05	0:06	LSR	Data is not available	Data is not available	Oversupply
6/10/2016 16:13	1:41	LSR	Data is not available	Data is not available	Oversupply
6/10/2016 18:04 6/11/2016 6:27	0:11 2:00	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/11/2016 9:40	0:08	LSR	Data is not available	Data is not available	Oversupply
6/11/2016 9:52	0:01	LSR	Data is not available	Data is not available	Oversupply
6/11/2016 10:03	0:03	LSR	Data is not available	Data is not available	Oversupply
6/11/2016 10:39	0:04	LSR LSR	Data is not available Data is not available	Data is not available	Oversupply
6/11/2016 10:48 6/11/2016 11:27	2:12	LSR	Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/11/2016 13:40	0:01	LSR	Data is not available	Data is not available	Oversupply
6/11/2016 13:46	0:07	LSR	Data is not available	Data is not available	Oversupply
6/11/2016 13:54 6/11/2016 13:58	0:01	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/11/2016 13:58	0:01	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/11/2016 14:18	1:00	LSR	Data is not available	Data is not available	Oversupply
6/11/2016 15:20	0:14	LSR	Data is not available	Data is not available	Oversupply
6/11/2016 15:35	0:04	LSR	Data is not available	Data is not available	Oversupply Oversupply
6/11/2016 15:43 6/11/2016 15:52	0:08	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/11/2016 16:14	0:18	LSR	Data is not available	Data is not available	Oversupply
6/11/2016 16:26	0:03	LSR	Data is not available	Data is not available	Oversupply
6/11/2016 17:00	0:08	LSR	Data is not available	Data is not available	Oversupply
6/11/2016 17:10 6/11/2016 17:28	0:06	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/11/2016 18:05	0:34	LSR	Data is not available	Data is not available	Oversupply
6/11/2016 18:14	0:06	LSR	Data is not available	Data is not available	Oversupply
6/12/2016 6:39	0:15	LSR	Data is not available	Data is not available	Oversupply
6/12/2016 7:01 6/12/2016 7:16	0:07	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply
6/12/2016 7:16	0:04	LSR	Data is not available	Data is not available	Oversupply Oversupply
6/12/2016 9:11	0:05	LSR	Data is not available	Data is not available	Oversupply
6/12/2016 9:22	0:39	LSR	Data is not available	Data is not available	Oversupply
6/12/2016 10:02	0:14	LSR	Data is not available	Data is not available	Oversupply
6/12/2016 10:18 6/12/2016 10:21	0:02	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/12/2016 10:25	0:30	LSR	Data is not available	Data is not available	Oversupply
6/12/2016 11:02	0:13	LSR	Data is not available	Data is not available	Oversupply
6/12/2016 11:16	0:10	LSR	Data is not available	Data is not available	Oversupply
6/12/2016 11:41	0:03	LSR LSR	Data is not available	Data is not available	Oversupply
6/12/2016 11:49 6/12/2016 12:14	0:24	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/12/2016 12:34	0:14	LSR	Data is not available	Data is not available	Oversupply
6/12/2016 12:49		100	Data is not available	Data is not available	Oversupply
	0:04	LSR			
6/12/2016 12:55	0:01	LSR	Data is not available	Data is not available	Oversupply

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 9 OF 12



Lanai Curtailment Report

Start Date and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
6/12/2016 13:17	0:08	LSR	Data is not available	Data is not available	Oversupply
6/12/2016 13:28	0:03	LSR	Data is not available	Data is not available	Oversupply
6/12/2016 13:32	1:41	LSR	Data is not available	Data is not available	Oversupply
6/12/2016 15:15 6/12/2016 15:17	0:01 0:12	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/12/2016 15:38	0:12	LSR	Data is not available	Data is not available	Oversupply
6/12/2016 16:36	0:01	LSR	Data is not available	Data is not available	Oversupply
6/12/2016 16:40	0:01	LSR	Data is not available	Data is not available	Oversupply
6/12/2016 16:46 6/12/2016 17:39	0:05	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply
6/13/2016 6:40	0:22	LSR	Data is not available	Data is not available	Oversupply Oversupply
6/13/2016 7:29	1:13	LSR	Data is not available	Data is not available	Oversupply
6/13/2016 8:50	0:07	LSR	Data is not available	Data is not available	Oversupply
6/13/2016 9:03 6/13/2016 9:45	0:02	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply ·
6/13/2016 9:49	0:01	LSR	Data is not available	Data is not available	Oversupply Oversupply
6/13/2016 9:55	0:07	LSR	Data is not available	Data is not available	Oversupply
6/13/2016 10:49	0:01	LSR	Data is not available	Data is not available	Oversupply
6/13/2016 10:57	0:01	LSR	Data is not available	Data is not available	Oversupply
6/13/2016 11:00 6/13/2016 11:05	0:02	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/13/2016 11:12	0:01	LSR	Data is not available	Data is not available	Oversupply
6/13/2016 11:17	0:01	LSR	Data is not available	Data is not available	Oversupply
6/13/2016 11:35	0:06	LSR	Data is not available	Data is not available	Oversupply
6/13/2016 12:20 6/13/2016 13:05	0:01 0:06	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/13/2016 13:39	0:00	LSR	Data is not available	Data is not available	Oversupply
6/13/2016 14:41	0:02	LSR	Data is not available	Data is not available	Oversupply
6/13/2016 14:53	0:03	LSR	Data is not available	Data is not available	Oversupply
6/13/2016 14:57	0:02	LSR	Data is not available	Data is not available	Oversupply
6/13/2016 15:01 6/13/2016 15:08	0:02	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/13/2016 15:11	0:01	LSR	Data is not available	Data is not available	Oversupply
6/13/2016 15:20	0:55	LSR	Data is not available	Data is not available	Oversupply
6/13/2016 16:46	0:20	LSR	Data is not available	Data is not available	Oversupply
6/14/2016 7:01 6/14/2016 7:07	0:04	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/14/2016 8:13	0:04	LSR	Data is not available	Data is not available	Oversupply Oversupply
6/14/2016 9:45	0:10	LSR	Data is not available	Data is not available	Oversupply
6/14/2016 10:00	0:16	LSR	Data is not available	Data is not available	Oversupply
6/14/2016 10:22 6/14/2016 10:34	0:11 0:13	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/14/2016 10:50	0:01	LSR	Data is not available	Data is not available	Oversupply
6/14/2016 10:57	0:06	LSR	Data is not available	Data is not available	Oversupply
6/14/2016 11:27	0:31	LSR	Data is not available	Data is not available	Oversupply
6/14/2016 12:07	0:03	LSR	Data is not available	Data is not available	Oversupply
6/14/2016 12:34 6/14/2016 12:54	0:03	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/14/2016 13:17	0:04	LSR	Data is not available	Data is not available	Oversupply
6/14/2016 13:50	0:01	LSR	Data is not available	Data is not available	Oversupply
6/14/2016 13:52	0:04	LSR	Data is not available	Data is not available	Oversupply
6/14/2016 13:59	0:02	LSR	Data is not available	Data is not available	Oversupply
6/14/2016 14:02 6/14/2016 14:05	0:01	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/14/2016 14:15	0:01	LSR	Data is not available	Data is not available	Oversupply
6/14/2016 14:18	0:02	LSR	Data is not available	Data is not available	Oversupply
6/14/2016 14:22	0:03	LSR	Data is not available	Data is not available	Oversupply
6/14/2016 14:35 6/14/2016 15:58	0:37	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/14/2016 16:11	0:01	LSR	Data is not available	Data is not available	Oversupply
6/14/2016 17:28	0:03	LSR	Data is not available	Data is not available	Oversupply
6/15/2016 6:39	0:04	LSR	Data is not available	Data is not available	Oversupply
6/15/2016 6:46 6/15/2016 6:52	0:05	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/15/2016 6:56	0:02	LSR	Data is not available	Data is not available	Oversupply
6/15/2016 7:05	0:06	LSR	Data is not available	Data is not available	Oversupply
6/15/2016 7:13	0:02	LSR	Data is not available	Data is not available	Oversupply
6/15/2016 7:16 6/15/2016 7:49	0:31	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/15/2016 7:51	0:01	LSR	Data is not available	Data is not available	Oversupply
6/15/2016 8:04	0:07	LSR	Data is not available	Data is not available	Oversupply
6/15/2016 8:27	0:40	LSR	Data is not available	Data is not available	Oversupply
6/15/2016 9:10 6/15/2016 9:13	0:02	LSR LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/15/2016 9:13	0:02	LSR	Data is not available	Data is not available	Oversupply Oversupply
6/15/2016 10:35	0:02	LSR	Data is not available	Data is not available	Oversupply
6/15/2016 10:40	0:05	LSR	Data is not available	Data is not available	Oversupply
6/15/2016 11:33	0:20	LSR	Data is not available	Data is not available	Oversupply
6/15/2016 12:01 6/15/2016 12:11	0:03	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
6/15/2016 12:15	0:02	LSR	Data is not available	Data is not available	Oversupply
6/15/2016 12:18	0:03	LSR	Data is not available	Data is not available	Oversupply
6/15/2016 12:22	0:06	LSR	Data is not available	Data is not available	Oversupply
6/15/2016 14:00 6/15/2016 15:30	0:17	LSR	Data is not available Data is not available	Data is not available Data is not available	Oversupply Oversupply
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6/15/2016 16:17	0:07	LSR	Data is not available	Data is not available	Oversupply
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6/16/2016 7:19	0:01	LSR	Data is not available	Data is not available	Oversupply
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DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 10 OF 12

Maui Electric

Lanai Curtailment Report

	Start Date and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Poscone for Curtailment
		Duration 0:23				Reasons for Curtailment Oversupply
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	6/22/2016 15:58	0:03	LSR	Data is not available	Data is not available	Oversupply
6/22/2016 16:59 0:07 LSR Data is not available Data is not available Oversupply						

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 11 OF 12



Lanai Curtailment Report

June 2016

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Start Date and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
6/22/2016 17:10	0:05	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 8:31	0:03	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 8:53	0:18	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 9:13	0:34	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 9:52	0:06		Data is not available	Data is not available	Oversupply
6/23/2016 10:00	0:02		Data is not available	Data is not available	Oversupply
6/23/2016 10:03	0:01	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 10:05	0:04		Data is not available	Data is not available	Oversupply
6/23/2016 10:03	0:01	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 10:17	0:01		Data is not available	Data is not available	
					Oversupply
6/23/2016 11:08	0:04		Data is not available	Data is not available	Oversupply
6/23/2016 11:53	0:02	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 11:56	0:01		Data is not available	Data is not available	Oversupply
6/23/2016 11:58	0:09	LSR	Data is not available	Data is not available	Oversupply -
6/23/2016 12:08	0:04		Data is not available	Data is not available	Oversupply
6/23/2016 12:18	0:01	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 12:20	0:02	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 12:24	0:02	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 12:30	0:02	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 12:39	0:06	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 12:49	0:03	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 12:54	0:02	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 14:19	0:02				
			Data is not available	Data is not available	Oversupply
6/23/2016 14:21	0:03	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 14:31	0:01	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 14:39	0:01	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 14:42	0:04	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 14:51	0:02		Data is not available	Data is not available	Oversupply
6/23/2016 14:55	0:01	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 14:59	0:02	LSR	Data is not available	Data is not available	Oversupply
6/23/2016 15:14	0:02	LSR	Data is not available	Data is not available	Oversupply
		LSR	Data is not available		
6/25/2016 7:27	0:02			Data is not available	Oversupply
6/25/2016 7:32	0:39	LSR	Data is not available	Data is not available	Oversupply
6/25/2016 8:13	0:02	LSR	Data is not available	Data is not available	Oversupply
6/25/2016 9:07	0:16	LSR	Data is not available	Data is not available	Oversupply
6/25/2016 9:28	0:06	LSR	Data is not available	Data is not available	Oversupply
6/25/2016 9:39	0:02	LSR	Data is not available	Data is not available	Oversupply
6/25/2016 9:44	0:06	LSR	Data is not available	Data is not available	Oversupply
6/25/2016 9:51	2:02	LSR	Data is not available	Data is not available	Oversupply
6/25/2016 11:54	6:14	LSR	Data is not available	Data is not available	Oversupply
6/26/2016 12:36	0:05	LSR	Data is not available	Data is not available	
					Oversupply
6/26/2016 12:42	0:02	LSR	Data is not available	Data is not available	Oversupply
6/26/2016 12:45	2:04	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 8:49	0:02	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 8:54	0:46	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 9:41	0:03	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 9:53	0:01	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 10:03	0:01	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 10:05	0:03	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 10:13	0:24	LSR	Data is not available	Data is not available	
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6/27/2016 10:40	0:02	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 10:43	0:04	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 10:50	0:03	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 10:54	0:13	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 11:12	0:01	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 11:14	0:02	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 11:52	0:02	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 11:55	0:01	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 12:03	0:01	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 12:27	0:01	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 12:32	0:04	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 12:39	0:06	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 12:47	0:40		Data is not available	Data is not available	Oversupply
6/27/2016 14:31	0:01	LSR	Data is not available	Data is not available	Oversupply
6/27/2016 15:52	0:01	LSR	Data is not available	Data is not available	Oversupply
6/29/2016 14:49	0:01	LSR	Data is not available	Data is not available	Oversupply
6/29/2016 14:51	0:01	LSR	Data is not available	Data is not available	Oversupply
6/29/2016 14:59	0:01	LSR	Data is not available	Data is not available	Oversupply
6/29/2016 15:20	0:02	LSR	Data is not available	Data is not available	Oversupply
6/29/2016 17:45	0:07	LSR	Data is not available	Data is not available	Oversupply
6/29/2016 18:08	0:04	LSR	Data is not available	Data is not available	Oversupply
6/29/2016 18:16	0:02	LSR	Data is not available	Data is not available	Oversupply
6/30/2016 8:36	0:39	LSR	Data is not available	Data is not available	Oversupply
6/30/2016 9:19	0:05	LSR	Data is not available	Data is not available	
		LSR	Data is not available		Oversupply
6/30/2016 9:25	0:01			Data is not available	Oversupply
6/30/2016 9:34	0:08	LSR	Data is not available	Data is not available	Oversupply
6/30/2016 10:26	0:02		Data is not available	Data is not available	Oversupply
6/30/2016 10:57	0:02		Data is not available	Data is not available	Oversupply
6/30/2016 11:05	0:04	LSR	Data is not available	Data is not available	Oversupply
6/30/2016 11:10	0:11	LSR	Data is not available	Data is not available	Oversupply
6/30/2016 11:23	0:52	LSR	Data is not available	Data is not available	Oversupply
6/30/2016 12:47	0:02	LSR	Data is not available	Data is not available	Oversupply
6/30/2016 12:55	0:02	LSR	Data is not available	Data is not available	Oversupply
6/30/2016 13:27	0:05	LSR	Data is not available	Data is not available	Oversupply
6/30/2016 13:33	0:01	LSR	Data is not available	Data is not available	Oversupply
6/30/2016 17:31	0:01		Data is not available	Data is not available	Oversupply
6/30/2016 17:35	0:03	LSR	Data is not available	Data is not available	Oversupply
6/30/2016 17:48	0:02	LSR	Data is not available	Data is not available	Oversupply
Notes:		-	-	-	· · · · · · · · · · · · · · · · · · ·
On June 27, 2012. Maui Fler	ctric notified LSR that	although LSR has no	t operated in compliance with th	e revised ramp rate of 360 kW/n	ninute, Maui Electric would conditionally allow LSR to operate at the allowed capacity of 1.2 MW while the Maui
Electric-Lanai Diesel Operati					, ,
LSR possible output data is i	not available. Theref	ore, Maui Electric ass	umes LSR is curtailed if the LSR c	urtailment set point is less than	1,200 kW and LSR's output is within 50 kW of the curtailment set point.

The curtailment reasons have been modified to oversupply, system constraints, and facility requested, to provide continuity with HPUC Docket No. 2013-0141 Decoupling for HECO companies metrics.

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 12 OF 12

Start Date/Time	MW output prior to start of curtailment	End Date/Time	MW output after curtailment released ¹	IPP	Reason for Curtailment
06/01/16 09:49	6.0 MW	06/01/16 11:42	0.0 MW	HRD	Facility requested
06/12/16 11:36	1.1 MW	06/12/16 12:47	0.0 MW	TGUHI1	Oversupply
06/12/16 12:00	17.7 MW	06/12/16 12:45	12.8 MW	Tawhiri	Oversupply
06/13/16 12:49	0.1 MW	06/13/16 12:50	0.0 MW	WHCC	System constraint - controls test
06/16/16 16:05	0.1 MW	06/16/16 17:00	0.0 MW	TGUHI1	Oversupply / generation unit test
06/16/16 16:06	0.0 MW	06/16/16 16:58	0.0 MW	WHCC	Oversupply / generation unit test
06/16/16 16:07	18.9 MW	06/16/16 16:56	10.5 MW	Tawhiri	Oversupply / generation unit test
06/26/16 01:01	18.7 MW	06/26/16 04:20	10.1 MW	Tawhiri	Oversupply
06/27/16 09:25	7.1 MW	06/27/16 10:12	5.0 MW	HRD	Facility requested

Hawai`i Electric Light Company Curtailment Report June 2016

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.