

August 23, 2017

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POBLIC 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 Companies¹ monthly report for July 2017 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 <u>marisa.chun@hawaiianelectric.com</u> to request a copy.

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

Sincerely,

W/m

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".

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 July 31, 2017):

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 July 31, 2017):

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

Hawaiian Electric did not have any contingency reserve activations for the month of July. 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.

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

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

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

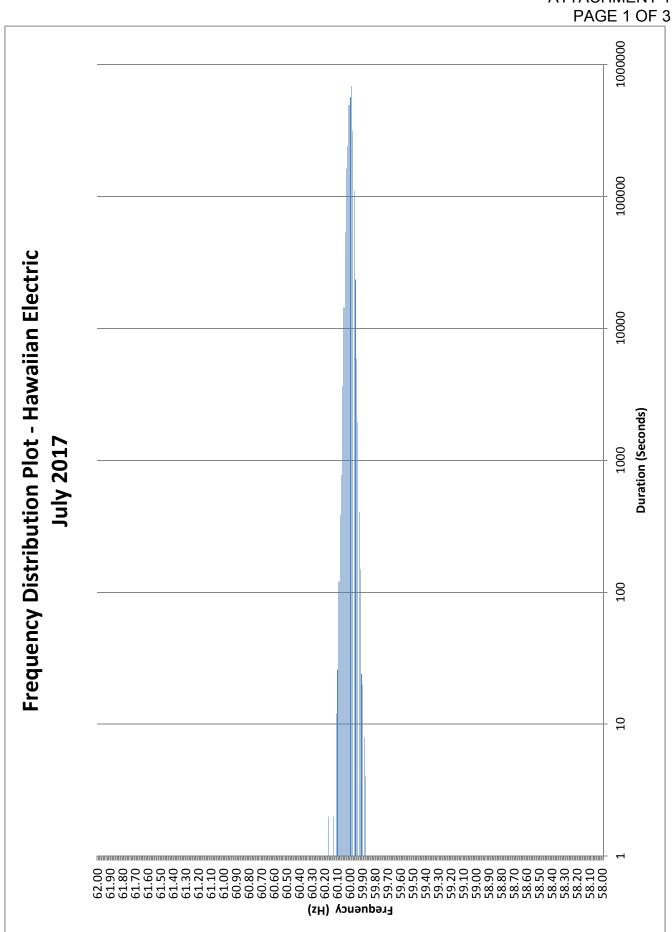
The following provides information with respect to items 3a) through 3b) – (all statements are current as of the month ending July 31, 2017):

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.

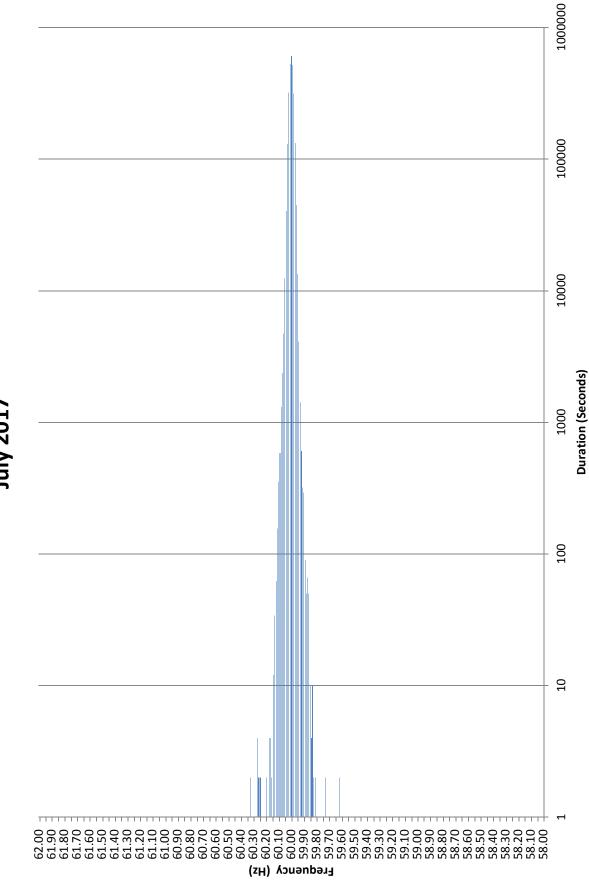
3b) Total MWh of non-dispatchable renewable resources curtailed for the month:

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.



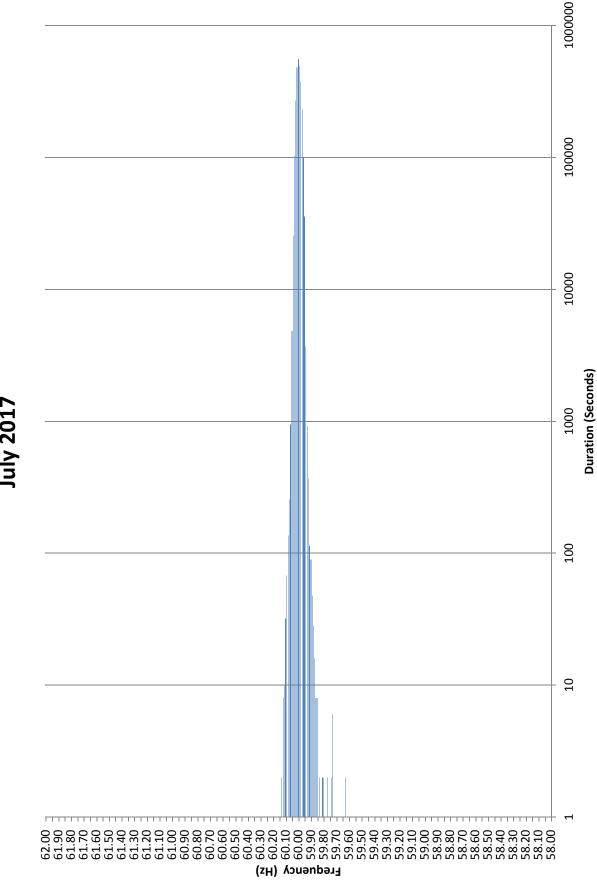
DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(1)(a) **ATTACHMENT 1**

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



Frequency Distribution Plot - Maui Electric July 2017

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



Frequency Distribution Plot - Hawai'i Electric Light July 2017

Hawaiian Electric Frequency Excursion Statistics						
July 2017						
Data Rounded to the nearest	<59.95 Hz	>60.05 Hz				
Number of Excursions	539	1502				
Maximum Duration (sec)	98	120				
Maximum Deviation (Hz)	59.876	60.165				
Total Duration of Excursions (sec)	4324	8940				

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

Maui Electric Frequency Excursion Statistics July 2017						
	<59.95 Hz	>60.05 Hz				
Number of Excursions	3431	2863				
Maximum Duration (sec)	162	220				
Maximum Deviation (Hz)	59.617	60.319				
Total Duration of Excursions (sec)	11844	14052				

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

Hawai'i Electric Light Frequency Excursion Statistics July 2017					
	<59.95 Hz	>60.05 Hz			
Number of Excursions	4553	722			
Maximum Duration (sec)	86	60			
Maximum Deviation (Hz)	59.628	60.131			
Total Duration of Excursions (sec)	21052	2920			

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

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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

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DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) **ATTACHMENT 6 PAGE 1 OF 11**

Hawaiian	Flectric	Curtailment	Report	July 2017

	Hawaiian Electric Curtailment Report July 2017							
					Estimated			
				MW output	MWh of			
	C	MW output		after	curtailed			
Start Date/Time	Curtailment Set Point	prior to start of curtailment	End Date/Time	curtailment released	energy during event (1)	IPP	Reason for Curtailment	
07/05/17 07:43	0.0	16.40	07/05/17 17:02	0	*	KWF	System constraints	
07/05/17 07:50	0.0	11.90	07/05/17 08:02	0	*	Mauka	System constraints	
07/05/17 07:50	0.0	1.00	07/05/17 08:02	0	*	Makai	System constraints	
07/05/17 07:03	0.0	0.20	07/05/17 07:28	0	*	KREP	System constraints	
07/05/17 15:23	0.0	3.60	07/05/17 15:34	0	*	KREP	System constraints	
07/05/17 15:42	0.0	16.90	07/05/17 17:04	0	*	Mauka	System constraints	
07/05/17 15:42	0.0	6.60	07/05/17 17:03	0	*	Makai	System constraints	
07/06/17 07:50	0.0	7.00	07/06/17 18:37	0	*	KWF	System constraints	
07/06/17 07:53	0.0	11.00	07/06/17 08:39	0	*	Mauka	System constraints	
07/06/17 07:53	0.0	2.00	07/06/17 08:40	0	*	Makai	System constraints	
07/06/17 16:30	0.0	20.00	07/06/17 18:41	0	*	Mauka	System constraints	
07/06/17 16:30	0.0	6.00	07/06/17 18:41	0	*	Makai	System constraints	
07/07/17 05:38	0.0	16.50	07/07/17 17:16	0	*	KWF	System constraints	
07/07/17 05:41	0.0	26.50	07/07/17 06:41	0	*	Mauka	System constraints	
07/07/17 05:41 07/07/17 14:41	0.0	6.50 5.20	07/07/17 06:41 07/07/17 17:14	0	*	Makai Makai	System constraints	
07/07/17 14:41	0.0	5.20	07/07/17 17:14	0	*	Mauka	System constraints System constraints	
07/08/17 06:28	0.0	0.00	07/08/17 07:32	0	*	Waianae	System constraints	
07/08/17 06:23	0.0	0.00	07/08/17 07:31	0	*	Aloha1	System constraints	
07/08/17 14:43	0.0	21.50	07/08/17 18:09	0	*	Waianae	System constraints	
07/08/17 14:45	0.0	4.60	07/08/17 18:11	0	*	Aloha1	System constraints	
07/09/17 11:54	0.0	21.00	07/09/17 12:57	0	*	Waianae	System constraints	
07/09/17 20:17	0.0	0.00	07/09/17 22:16	0	*	Waianae	System constraints	
07/10/17 06:50	0.0	2.80	07/10/17 07:45	0	*	Waianae	System constraints	
07/10/17 07:58	0.0	13.60	07/10/17 17:22	0	*	KWF	System constraints	
07/10/17 08:04	0.0	3.50	07/10/17 08:37	0	*	Mauka	System constraints	
07/10/17 08:04	0.0	1.80	07/10/17 08:37	0	*	Makai	System constraints	
07/10/17 16:08	0.0	11.10	07/10/17 17:19	0	*	Makai	System constraints	
07/10/17 16:08	0.0	30.10	07/10/17 17:20	0	*	Mauka	System constraints	
07/11/17 06:16	0.0	1.40	07/11/17 17:14	0	*	KWF	System constraints	
07/11/17 06:18	0.0	0.00	07/11/17 08:00	0	*	Mauka	System constraints	
07/11/17 06:18	0.0	0.00 21.50	07/11/17 08:00 07/11/17 15:01	0	*	Makai Waianae	System constraints	
07/11/17 14:31 07/11/17 14:47	0.0	3.70	07/11/17 15:01	0	*	Aloha1	System constraints System constraints	
07/11/17 16:07	0.0	22.40	07/11/17 17:12	0	*	Mauka	System constraints	
07/11/17 16:08	0.0	12.20	07/11/17 17:12	0	*	Makai	System constraints	
07/12/17 06:17	0.0	6.00	07/12/17 16:44	0	*	KWF	System constraints	
07/12/17 06:20	0.0	0.00	07/12/17 07:30	0	*	Mauka	System constraints	
07/12/17 06:20	0.0	0.00	07/12/17 07:30	0	*	Makai	System constraints	
07/12/17 06:25	0.0	0.00	07/12/17 07:25	0	*	KLS2	System constraints	
07/12/17 12:09	0.0	3.50	07/12/17 13:52	0	*	KLS2	System constraints	
07/12/17 15:38	0.0	0.00	07/12/17 16:46	0	*	Makai	System constraints	
07/12/17 15:38	0.0	22.00	07/12/17 16:47	0	*	Mauka	System constraints	
07/14/17 06:11	0.0	14.00	07/14/17 19:23	0	*	KWF	System constraints	
07/14/17 06:14	0.0	1.00	07/14/17 07:49	0	*	Makai	System constraints	
07/14/17 06:15 07/14/17 17:53	0.0	6.00	07/14/17 07:50	0	*	Mauka	System constraints	
07/14/17 17:53	0.0	4.00 15.50	07/14/17 19:25 07/14/17 19:26	0	*	Makai Mauka	System constraints System constraints	
07/19/17 06:42	0.0	15.50	07/19/17 08:21	0	*	KWF	System constraints	
07/19/17 06:42	0.0	0.00	07/19/17 08:21	0	*	Makai	System constraints System constraints	
07/19/17 15:16	0.0	15.00	07/19/17 16:21	0	*	KWF	System constraints	
07/19/17 15:10	0.0	6.00	07/19/17 16:23	0	*	Makai	System constraints	
07/21/17 15:02	0.0	25.00	07/21/17 15:38	0	*	Waianae	System constraints	
07/21/17 15:04	0.0	1.80	07/21/17 15:40	0	*	Aloha1	System constraints	
07/22/17 06:10	0.0	0.00	07/22/17 06:17	0	*	KREP	System constraints	
07/22/17 17:55	0.0	0.90	07/22/17 18:05	0	*	KREP	System constraints	
07/24/17 08:52	0.0	4.00	07/24/17 09:12	0	*	Mauka	System constraints	
07/31/17 05:53	0.0	0.00	07/31/17 06:58	0	*	Aloha1	System constraints	
07/31/17 05:56	0.0	0.00	07/31/17 07:22	0	*	Waianae	System constraints	
07/31/17 19:51	0.0	0.00	07/31/17 20:26	0	*	Waianae	System constraints	
07/31/17 19:54	0.0	0.00	07/31/17 20:23	0	*	Aloha1	System constraints	

Aloha1 = Aloha Solar 1 PV Farm

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

North = Waihonu North PV Farm

South = Waihonu South PV Farm

Waianae = Waianae Solar PV 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 11 July 2017



Start Date and Time	Duration	IDD Curtailad	Estimated Custoiled MM/H	Deals MW/ Curtailad	Decence for Custoliment
		IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/1/2017 2:28	0:25	KWPII	1.318		Oversupply
7/1/2017 2:57	0:13	KWPII	0.393		Oversupply
7/1/2017 3:32	1:46	KWPII	14.992		Oversupply
7/1/2017 5:36	1:24	KWPII	3.585		Oversupply
7/1/2017 8:16	1:28	KWPII	7.159	19.211	Oversupply
7/1/2017 10:19	0:41	KWPII	6.285	19.010	Oversupply
7/1/2017 11:29	0:03	BS250	Data is not available	Data is not available	Oversupply
7/1/2017 11:30	0:03	KWPII	0.059	13.488	Oversupply
7/1/2017 11:36	0:03	BS250	Data is not available	Data is not available	Oversupply
7/1/2017 11:36	0:03	KWPII	0.085	15.488	Oversupply
7/1/2017 11:43	0:09	BS250	Data is not available	Data is not available	Oversupply
7/1/2017 11:45	0:07	KWPII	0.209		Oversupply
7/1/2017 12:32	0:05	BS250	Data is not available	Data is not available	
					Oversupply
7/1/2017 12:32	0:06	KWPII	0.121		Oversupply
7/1/2017 12:38	0:17	BS250	Data is not available	Data is not available	Oversupply
7/1/2017 12:39	0:16	KWPII	1.644		Oversupply
7/1/2017 12:56	0:16	KWPII	1.716		Oversupply
7/1/2017 15:41	0:01	BS250	Data is not available	Data is not available	Oversupply
7/1/2017 15:56	0:01	KWP	0.008	0.476	Oversupply
7/1/2017 16:01	0:01	KWPII	0.001	0.047	Oversupply
7/1/2017 17:17	0:01	KWPII	0.000	0.004	Oversupply
7/1/2017 18:05	0:02	KWP	0.022		Oversupply
7/2/2017 7:53	0:02	KWP	0.017		Oversupply
7/3/2017 2:06	0:02	KWPII	0.000		Oversupply
7/3/2017 2:10	0:48	KWPII	3.649		Oversupply
7/3/2017 2:10	0:48	KWPII	0.000		
					Oversupply
7/3/2017 3:04	0:02	KWPII	0.065		Oversupply
7/3/2017 3:07	1:12	KWPII	4.963		Oversupply
7/3/2017 4:33	0:03	KWPII	0.030		Oversupply
7/3/2017 10:21	3:10	KWPII	18.260	20.708	Oversupply
7/4/2017 0:46	0:01	KWPII	0.001	20.607	Oversupply
7/4/2017 1:00	0:16	KWPII	0.452	20.708	Oversupply
7/4/2017 1:21	0:03	KWPII	0.048	20.708	Oversupply
7/4/2017 1:26	0:13	KWPII	0.445		Oversupply
7/4/2017 1:42	0:04	KWPII	0.027		Oversupply
7/4/2017 1:48	0:01	KWPII	0.004		Oversupply
7/4/2017 2:07	1:25	KWPII	12.126		Oversupply
		KWPII			
7/4/2017 4:32	0:02		0.008		Oversupply
7/4/2017 4:36	0:09	KWPII	0.720		Oversupply
7/4/2017 4:48	1:50	KWPII	15.916		Oversupply
7/4/2017 7:00	0:02	BS250	Data is not available	Data is not available	Oversupply
7/4/2017 7:01	0:02	KWPII	0.008	20.708	Oversupply
7/4/2017 7:04	0:02	BS250	Data is not available	Data is not available	Oversupply
7/4/2017 7:05	1:17	KWPII	2.826	20 709	
	1.17		2.020	20.708	Oversupply
7/4/2017 8:25	1:04	KWPII	2.325		Oversupply Oversupply
7/4/2017 8:25	1:04	KWPII	2.325	20.703 Data is not available	Oversupply Oversupply
7/4/2017 8:25 7/4/2017 9:40	1:04 0:02	KWPII BS250	2.325 Data is not available	20.703 Data is not available 20.708	Oversupply Oversupply Oversupply
7/4/2017 8:25 7/4/2017 9:40 7/4/2017 9:41 7/4/2017 14:29	1:04 0:02 4:39 0:20	KWPII BS250 KWPII KWPII	2.325 Data is not available 43.829 1.177	20.703 Data is not available 20.708 20.497	Oversupply Oversupply Oversupply Oversupply Oversupply
7/4/2017 8:25 7/4/2017 9:40 7/4/2017 9:41 7/4/2017 14:29 7/5/2017 1:23	1:04 0:02 4:39 0:20 0:56	KWPII BS250 KWPII KWPII KWPII	2.325 Data is not available 43.829 1.177 3.993	20.703 Data is not available 20.708 20.497 19.211	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
7/4/2017 8:25 7/4/2017 9:40 7/4/2017 9:41 7/4/2017 14:29 7/5/2017 1:23 7/6/2017 2:08	1:04 0:02 4:39 0:20 0:56 0:01	KWPII BS250 KWPII KWPII KWPII AWE	2.325 Data is not available 43.829 1.177 3.993 0.005	20.703 Data is not available 20.708 20.497 19.211 0.300	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
7/4/2017 8:25 7/4/2017 9:40 7/4/2017 9:41 7/4/2017 14:29 7/5/2017 1:23 7/6/2017 2:08 7/6/2017 2:29	1:04 0:02 4:39 0:20 0:56 0:01 0:37	KWPII BS250 KWPII KWPII KWPII AWE KWPII	2.325 Data is not available 43.829 1.177 3.993 0.005 2.511	20.703 Data is not available 20.708 20.497 19.211 0.300 19.211	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
7/4/2017 8:25 7/4/2017 9:40 7/4/2017 9:41 7/4/2017 14:29 7/5/2017 1:23 7/6/2017 2:08 7/6/2017 2:29 7/6/2017 6:49	1:04 0:02 4:39 0:20 0:56 0:01 0:37 0:01	KWPII BS250 KWPII KWPII AWE KWPII AWE	2.325 Data is not available 43.829 1.177 3.993 0.005 2.511 0.003	20.703 Data is not available 20.708 20.497 19.211 0.300 19.211 0.200	Oversupply
7/4/2017 8:25 7/4/2017 9:40 7/4/2017 9:41 7/4/2017 14:29 7/5/2017 1:23 7/6/2017 2:08 7/6/2017 2:29 7/6/2017 6:49 7/7/2017 1:55	1:04 0:02 4:39 0:20 0:56 0:01 0:37 0:01 2:36	KWPII BS250 KWPII KWPII AWE KWPII AWE KWPII	2.325 Data is not available 43.829 1.177 3.993 0.005 2.511 0.003 19.320	20.703 Data is not available 20.708 20.497 19.211 0.300 19.211 0.200 20.708	Oversupply
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7/4/2017 8:25 7/4/2017 9:40 7/4/2017 9:41 7/4/2017 9:41 7/6/2017 1:23 7/6/2017 1:23 7/6/2017 2:29 7/6/2017 2:29 7/6/2017 2:29 7/6/2017 2:29 7/7/2017 4:34 7/7/2017 4:34 7/7/2017 4:46 7/7/2017 4:46 7/7/2017 4:46 7/8/2017 3:28 7/8/2017 3:28 7/8/2017 3:28 7/8/2017 12:11 7/8/2017 12:12 7/8/2017 12:14 7/8/2017 12:14 7/8/2017 12:14 7/8/2017 12:14 7/9/2017 3:34 7/9/2017 3:34 7/9/2017 7:13 7/9/2017 7:13 7/9/2017 7:12 7/9/2017 7:22 7/9/2017 7:23 7/9/2017 7:24 7/9/2017 8:48 7/9/2017 8:48	1:04 0:02 4:39 0:20 0:56 0:01 0:37 0:01 2:36 0:03 0:03 0:01 0:01 0:01 0:02 0:25 0:01 0:02 0:25 0:01 0:02 0:03 0:03 0:03 0:03 0:03 0:03 0:03	KWPII BS250 KWPII KWPII AWE KWPII AWE KWPII AWE KWPII BS250 KWPII BS250 KWPII BS250 KWPII BS250 KWPII BS250 KWPII BS250 KWPII KWPII BS250	2.325 Data is not available 43.829 1.177 3.993 0.005 2.511 0.003 19.320 0.052 0.590 Data is not available 0.006 0.861 0.003 0.026 Data is not available 0.008 1.012 0.001 0.122 0.061 Data is not available 0.011 0.122 0.011 0.122 0.161 Data is not available 0.070 Data is not available 1.935 Data is not available 0.041 0.004 0.041 0.006 Data is not available 0.041 0.006	20.703 Data is not available 20.708 20.497 20.497 19.211 0.200 20.708 20.708 20.708 20.708 20.708 20.708 20.708 20.708 20.709 20	Oversupply System constraint System constraint
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DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) **ATTACHMENT 6 PAGE 3 OF 11**

July 2017



Start Date and Time

IPP Curtailed

Estimated Curtailed MWH

Duration

Maui Curtailment Report

Peak MW Curtailed Reasons for Curtailment

Start Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/9/2017 9:33	0:16	KWPII	0.569	17.950	System constraint
7/9/2017 10:31	0:38	KWPII	3.212	18.287	System constraint
7/9/2017 10:36	0:33	BS250	Data is not available	Data is not available	System constraint
7/9/2017 11:11		BS250	Data is not available	Data is not available	System constraint
7/9/2017 11:11	0:04	KWPII	0.109		
7/9/2017 11:16		KWPII	0.044		System constraint
7/9/2017 11:22		BS250	Data is not available	Data is not available	System constraint
					-
7/9/2017 11:27		BS250	Data is not available	Data is not available	System constraint
7/9/2017 11:27		KWPII	0.041		System constraint
7/9/2017 11:33		BS250	Data is not available	Data is not available	System constraint
7/9/2017 11:34		KWPII	2.904		System constraint
7/9/2017 12:18		BS250	Data is not available	Data is not available	System constraint
7/9/2017 12:19		KWPII	0.240		System constraint
7/9/2017 12:28		BS250	Data is not available	Data is not available	System constraint
7/9/2017 12:29		KWPII	0.151		System constraint
7/9/2017 12:36		BS250	Data is not available	Data is not available	System constraint
7/9/2017 12:38		BS250	Data is not available	Data is not available	System constraint
7/9/2017 12:39		KWPII	0.026		System constraint
7/9/2017 12:51		BS250	Data is not available	Data is not available	System constraint
7/9/2017 12:51		KWPII	0.027		System constraint
7/9/2017 12:57		BS250	Data is not available	Data is not available	System constraint
7/9/2017 12:58		KWPII	0.015		System constraint
7/10/2017 1:22		KWPII	4.835		Oversupply
7/10/2017 5:42		KWPII	0.863		Oversupply
7/10/2017 5:49		BS250	Data is not available	Data is not available	Oversupply
7/10/2017 6:54		KWPII	0.040		Oversupply
7/10/2017 6:56		KWP	2.546		Oversupply
7/10/2017 8:16		BS250	Data is not available	Data is not available	Oversupply
7/10/2017 8:16		KWPII	0.039		Oversupply
7/11/2017 13:02		KWPII	0.001		Oversupply
7/12/2017 6:46		BS250	Data is not available	Data is not available	Oversupply
7/12/2017 6:47		KWPII	0.003	17.573	Oversupply
7/12/2017 6:53	0:01	BS250	Data is not available	Data is not available	Oversupply
7/12/2017 12:28	0:05	BS250	Data is not available	Data is not available	Oversupply
7/12/2017 12:29	0:04	KWPII	0.115	18.565	Oversupply
7/13/2017 0:00	0:19	KWPII	0.605	20.621	Oversupply
7/13/2017 1:22	0:02	KWPII	0.072	16.028	Oversupply
7/13/2017 1:33	0:01	KWPII	0.066	18.252	Oversupply
7/13/2017 1:44	0:01	KWPII	0.044	19.093	Oversupply
7/13/2017 1:47	0:09	KWPII	0.494	19.068	Oversupply
7/13/2017 7:10	0:01	KWPII	0.001	0.071	Oversupply
7/13/2017 23:43	0:07	KWPII	0.143	20.648	Oversupply
7/13/2017 23:57	0:13	KWPII	0.224	20.599	Oversupply
7/14/2017 0:28	0:17	KWPII	0.772	20.678	Oversupply
7/14/2017 1:17	0:29	KWPII	1.012	20.438	Oversupply
7/14/2017 1:49	0:10	KWPII	0.338	20.578	Oversupply
7/14/2017 2:07	0:39	KWPII	2.806	18.680	Oversupply
7/14/2017 3:12	0:01	KWPII	0.030	18.822	Oversupply
7/14/2017 3:23	0:13	KWPII	0.611	19.005	Oversupply
7/14/2017 8:23	0:01	KWPII	0.000	20.634	Oversupply
7/14/2017 8:24	0:02	BS250	Data is not available	Data is not available	Oversupply
7/14/2017 8:25	0:01	KWPII	0.002	20.663	Oversupply
7/14/2017 10:46	0:04	BS250	Data is not available	Data is not available	Oversupply
7/14/2017 10:47	0:03	KWPII	0.017	20.388	Oversupply
7/14/2017 11:26	0:01	KWPII	0.003	20.357	Oversupply
7/14/2017 11:45	0:47	BS250	Data is not available	Data is not available	Oversupply
7/14/2017 11:46	0:10	KWPII	0.234	20.656	Oversupply
7/14/2017 11:57	0:55	KWPII	1.592	20.706	Oversupply
7/14/2017 12:33	0:19	BS250	Data is not available	Data is not available	Oversupply
7/14/2017 12:58	0:11	BS250	Data is not available	Data is not available	Oversupply
7/14/2017 12:59	0:10	KWPII	0.209	20.699	Oversupply
7/14/2017 13:12	0:10	BS250	Data is not available	Data is not available	Oversupply
7/14/2017 13:12	0:01	KWPII	0.013	20.655	Oversupply
7/14/2017 13:14	0:10	KWPII	0.349	20.654	Oversupply
7/14/2017 13:45		BS250	Data is not available	Data is not available	Oversupply
7/14/2017 13:51	0:02	BS250	Data is not available	Data is not available	Oversupply
7/14/2017 13:51	0:03	KWPII	0.050	20.554	Oversupply
7/14/2017 13:57		BS250	Data is not available		Oversupply
7/14/2017 13:58		KWPII	0.155		Oversupply
7/14/2017 14:09		KWPII	0.005		Oversupply
7/14/2017 14:13	0:05	BS250	Data is not available	Data is not available	Oversupply
7/14/2017 14:13		KWPII	0.089		Oversupply
7/14/2017 14:21		BS250	Data is not available		Oversupply
7/14/2017 14:22		KWPII	0.001		Oversupply
		KWPII	0.064		Oversupply
7/14/2017 23:16	0:05				
7/14/2017 23:16 7/15/2017 0:00		KWPII	0.037	20.629	Oversupply
	0:05				Oversupply Oversupply
7/15/2017 0:00	0:05	KWPII	0.037	20.705	
7/15/2017 0:00 7/15/2017 0:27	0:05 0:02 2:37	KWPII KWPII	0.037	20.705 20.703	Oversupply

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 4 OF 11

July 2017



Start Data and Time	Duration	IDD Curtailad	Estimated Curtailed MWH	Deals MW/ Curtailad	Dessens for Outsilment
Start Date and Time	Duration	IPP Curtailed			Reasons for Curtailment
7/15/2017 9:19	0:07	BS250	Data is not available	Data is not available	Oversupply
7/15/2017 9:19	0:07	KWPII	0.281		Oversupply
7/15/2017 9:30	5:22	BS250	Data is not available	Data is not available	Oversupply
7/15/2017 9:30	5:23	KWPII	84.544		Oversupply
7/15/2017 10:19	0:01	AWE	0.007		Oversupply
7/15/2017 10:25	0:02	AWE	0.014		Oversupply
7/15/2017 10:41	0:17	AWE	1.039		Oversupply
7/15/2017 10:59	1:51	AWE	12.880	19.700	Oversupply
7/15/2017 14:53	0:03	BS250	Data is not available	Data is not available	Oversupply
7/15/2017 14:54	0:13	KWPII	0.247	20.702	Oversupply
7/15/2017 14:57	0:09	BS250	Data is not available	Data is not available	Oversupply
7/16/2017 1:37	0:06	KWPII	0.057	20.670	Oversupply
7/16/2017 1:46	0:01	KWPII	0.000	20.694	Oversupply
7/16/2017 1:50	0:21	KWPII	0.382	20.682	Oversupply
7/16/2017 2:29	0:01	AWE	0.003	0.200	Oversupply
7/16/2017 2:36	0:01	KWPII	0.000	20.700	Oversupply
7/16/2017 3:32	0:15	KWPII	0.452		Oversupply
7/16/2017 5:59	0:01	AWE	0.003		Oversupply
7/16/2017 8:15	0:01	BS250	Data is not available	Data is not available	Oversupply
7/16/2017 8:20	4:25	BS250	Data is not available	Data is not available	Oversupply
7/16/2017 8:22	3:12	KWPII	39.064		Oversupply
7/16/2017 11:16	0:08	AWE	0.145		Oversupply
7/16/2017 11:18	0:08	AWE	0.145		Oversupply
7/16/2017 11:28	1:10	KWPII	12.963		Oversupply Oversupply
7/16/2017 11:38	0:02	AWE	0.015		Oversupply
7/16/2017 13:28	1:19	BS250	Data is not available	Data is not available	Oversupply
7/16/2017 13:28	1:19	KWPII	18.550		Oversupply
7/16/2017 14:15	0:01	AWE	0.001		Oversupply
7/16/2017 14:17	0:01	AWE	0.006		Oversupply
7/16/2017 14:19	0:01	AWE	0.004		Oversupply
7/16/2017 14:28	0:04	AWE	0.075		Oversupply
7/16/2017 14:37	0:01	AWE	0.002		Oversupply
7/16/2017 14:40	0:01	AWE	0.005	19.000	Oversupply
7/16/2017 14:48	0:51	BS250	Data is not available	Data is not available	Oversupply
7/16/2017 14:49	0:50	KWPII	6.080	20.708	Oversupply
7/17/2017 0:31	0:01	AWE	0.002	0.100	Oversupply
7/17/2017 6:15	0:07	BS250	Data is not available	Data is not available	Oversupply
7/17/2017 6:15	0:08	KWPII	0.235	20.705	Oversupply
7/17/2017 7:12	0:02	BS250	Data is not available	Data is not available	Oversupply
7/17/2017 10:17	0:01	BS250	Data is not available	Data is not available	Oversupply
7/17/2017 10:17	0:02	KWPII	0.011	20.270	Oversupply
7/17/2017 10:30	0:02	BS250	Data is not available	Data is not available	Oversupply
7/17/2017 12:36	0:01	BS250	Data is not available	Data is not available	Oversupply
7/17/2017 12:57	0:01	BS250	Data is not available	Data is not available	Oversupply
7/17/2017 12:57	0:02	KWPII	0.006		Oversupply
7/17/2017 13:01	0:02	BS250	Data is not available	Data is not available	Oversupply
7/17/2017 13:01	0:02	KWPII	0.015		Oversupply
7/17/2017 13:04	0:03	BS250	Data is not available	Data is not available	Oversupply
7/17/2017 13:05	0:02	KWPII	0.025		Oversupply
7/17/2017 13:08	0:03	BS250	Data is not available	Data is not available	Oversupply
7/17/2017 13:08	0:04	KWPII	0.069		Oversupply
7/17/2017 13:15	0:04	BS250	Data is not available		Oversupply
7/17/2017 13:15	0:05	KWPII	0.103		Oversupply
7/17/2017 14:52	0:01	BS250	Data is not available	Data is not available	Oversupply
7/17/2017 14:53	0:01	KWPII	0.008		Oversupply
7/17/2017 15:02	0:01	BS250	Data is not available	Data is not available	Oversupply
7/17/2017 15:02	0:02	KWPII	0.015		Oversupply
7/17/2017 16:22	0:02	BS250	Data is not available	Data is not available	Oversupply
7/17/2017 16:22	0:02	KWPII	0.004	20.684	Oversupply
7/17/2017 19:07	0:01	KWPII	0.000	20.708	Oversupply
7/17/2017 23:03	0:03	KWPII	0.054	20.708	Oversupply
7/17/2017 23:52	0:24	KWPII	0.829	20.708	Oversupply
7/18/2017 0:36	5:01	KWPII	40.510		Oversupply
7/18/2017 5:58	0:12	BS250	Data is not available	Data is not available	Oversupply
7/18/2017 5:59	0:11	KWPII	0.316		Oversupply
7/18/2017 7:40	0:02	BS250	Data is not available	Data is not available	Oversupply
7/18/2017 7:43	3:00	BS250	Data is not available	Data is not available	Oversupply
7/18/2017 7:44	2:59	KWPII	35.707		Oversupply
7/18/2017 10:12	0:01	AWE	0.003		Oversupply
7/18/2017 10:12	0:01	AWE	0.003		Oversupply Oversupply
	0:01				
7/18/2017 10:24		AWE	0.035		Oversupply
7/18/2017 10:32	0:02	AWE	0.004		Oversupply
7/18/2017 10:35	0:01	AWE	0.006		Oversupply
7/18/2017 10:45	2:09	BS250	Data is not available		Oversupply
7/18/2017 10:45	2:09	KWPII	23.000		Oversupply
7/18/2017 12:59	0:43	BS250	Data is not available		Oversupply
7/18/2017 12:59	0:43	KWPII	1.693		Oversupply
7/18/2017 13:48	0:19	BS250	Data is not available	Data is not available	Oversupply
7/18/2017 13:48	0:20	KWPII	0.517	20.323	Oversupply

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 5 OF 11

July 2017



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	rt Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
	7/18/2017 14:10	0:01	BS250	Data is not available	Data is not available	Oversupply
	7/18/2017 14:10	0:01	KWPII	0.009	18.484	Oversupply
	7/18/2017 14:15	0:02	BS250	Data is not available	Data is not available	Oversupply
	7/18/2017 14:16	0:02	KWPII	0.018	18.677	Oversupply
	7/18/2017 14:24	0:01	BS250	Data is not available	Data is not available	Oversupply
	7/18/2017 14:24	0:02	KWPII	0.020		Oversupply
	7/18/2017 16:27	0:02	BS250	Data is not available	Data is not available	Oversupply
	7/18/2017 16:28	0:02	KWPII	0.049	19.557	Oversupply
	7/19/2017 0:13	0:04	KWPII	0.097	15.449	Oversupply
	7/19/2017 0:59	0:05	KWPII	0.040	11.932	Oversupply
	7/19/2017 3:06	0:26	KWPII	1.129	16.945	Oversupply
	7/19/2017 4:21	0:22	KWPII	0.683		Oversupply
	7/19/2017 5:35	0:01	KWPII	0.011		Oversupply
	7/19/2017 5:54	0:01	KWPII	0.036		Oversupply
	7/19/2017 5:57	0:01	KWPII	0.026	20.423	Oversupply
	7/19/2017 6:47	0:01	BS250	Data is not available	Data is not available	Oversupply
	7/19/2017 7:41	0:16	BS250	Data is not available	Data is not available	Oversupply
	7/19/2017 7:43	0:14	KWPII	0.763	20.705	Oversupply
	7/19/2017 11:36	0:01	BS250	Data is not available	Data is not available	Oversupply
	7/19/2017 11:40	0:01	BS250	Data is not available	Data is not available	Oversupply
	7/19/2017 11:41	0:01	KWPII	0.008		
						Oversupply
	7/19/2017 15:00	0:01	BS250	Data is not available	Data is not available	Oversupply
L	7/19/2017 22:31	0:08	KWPII	0.176		Oversupply
L	7/19/2017 22:46	0:24	KWPII	1.373	18.780	Oversupply
	7/19/2017 23:23	1:30	KWPII	10.988	20.698	Oversupply
	7/20/2017 1:00	0:02	KWPII	0.024		Oversupply
	7/20/2017 1:08	4:21	KWPII	36.563		Oversupply
	7/20/2017 5:30	0:03	KWPII	0.074		Oversupply
	7/20/2017 5:34	0:29	KWPII	0.438		Oversupply
	7/20/2017 5:49	0:18	BS250	Data is not available	Data is not available	Oversupply
	7/20/2017 6:02	0:03	BS250	Data is not available	Data is not available	Oversupply
	7/20/2017 6:04	0:01	KWPII	0.005	20.652	Oversupply
	7/20/2017 6:11	0:02	BS250	Data is not available	Data is not available	Oversupply
	7/20/2017 6:12	0:01	KWPII	0.000		Oversupply
	7/20/2017 6:19	0:01	BS250	Data is not available	Data is not available	Oversupply
	7/20/2017 6:21	0:03	BS250	Data is not available	Data is not available	Oversupply
	7/20/2017 6:24	0:01	KWPII	0.002	20.662	Oversupply
	7/20/2017 8:49	0:04	BS250	Data is not available	Data is not available	Oversupply
	7/20/2017 8:50	0:05	KWPII	0.053	20.686	Oversupply
	7/20/2017 8:54	5:11	BS250	Data is not available	Data is not available	Oversupply
	7/20/2017 8:56	5:13	KWPII	48.397		Oversupply
-						
-	7/20/2017 14:06	0:03	BS250	Data is not available	Data is not available	Oversupply
	7/20/2017 14:10	0:01	BS250	Data is not available	Data is not available	Oversupply
	7/20/2017 14:10	0:01	KWPII	0.004	20.654	Oversupply
	7/20/2017 14:28	0:13	BS250	Data is not available	Data is not available	Oversupply
	7/20/2017 14:30	0:10	KWPII	0.297	20.708	Oversupply
	7/20/2017 14:42	0:03	BS250	Data is not available	Data is not available	Oversupply
	7/20/2017 14:43	0:02	KWPII	0.018		Oversupply
	7/20/2017 22:30	0:05	KWPII	0.127		
						Oversupply
	7/21/2017 2:35	0:12	KWPII	0.472		Oversupply
	7/21/2017 2:59	0:04	KWPII	0.040		Oversupply
L	7/21/2017 3:05	1:10	KWPII	7.074	20.708	Oversupply
	7/21/2017 4:27	0:10	KWPII	0.379	20.696	Oversupply
	7/21/2017 4:43	0:01	KWPII	0.008		Oversupply
	7/21/2017 4:55	0:52	KWPII	5.618		Oversupply
	7/21/2017 7:07	0:02	BS250	Data is not available	Data is not available	Oversupply
			KWPII			Oversupply
-	7/21/2017 7:08	0:11		0.392		Oversupply Oversupply
	7/21/2017 8:16	0:01	BS250	Data is not available	Data is not available	LIVERSUDDW
	7/21/2017 8:19					
		0:24	BS250	Data is not available	Data is not available	Oversupply
	7/21/2017 8:20	0:24	BS250 KWPII	Data is not available 2.254		
	7/21/2017 8:20 7/21/2017 9:17					Oversupply
	7/21/2017 9:17	0:23	KWPII BS250	2.254	20.708 Data is not available	Oversupply Oversupply Oversupply
	7/21/2017 9:17 7/21/2017 9:20	0:23 0:01 0:02	KWPII BS250 BS250	2.254 Data is not available Data is not available	20.708 Data is not available Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply
	7/21/2017 9:17 7/21/2017 9:20 7/21/2017 9:23	0:23 0:01 0:02 0:35	KWPII BS250 BS250 BS250	2.254 Data is not available Data is not available Data is not available	20.708 Data is not available Data is not available Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
	7/21/2017 9:17 7/21/2017 9:20 7/21/2017 9:23 7/21/2017 9:24	0:23 0:01 0:02 0:35 0:35	KWPII BS250 BS250 BS250 KWPII	2.254 Data is not available Data is not available Data is not available 1.975	20.708 Data is not available Data is not available Data is not available 20.708	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
	7/21/2017 9:17 7/21/2017 9:20 7/21/2017 9:23 7/21/2017 9:24 7/21/2017 10:02	0:23 0:01 0:02 0:35 0:35 0:36	KWPII BS250 BS250 BS250 KWPII BS250	2.254 Data is not available Data is not available Data is not available 1.975 Data is not available	20.708 Data is not available Data is not available Data is not available 20.708 Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
	7/21/2017 9:17 7/21/2017 9:20 7/21/2017 9:23 7/21/2017 9:24 7/21/2017 10:02 7/21/2017 10:03	0:23 0:01 0:02 0:35 0:35 0:36 0:36	KWPII BS250 BS250 BS250 KWPII BS250 KWPII	2.254 Data is not available Data is not available Data is not available 1.975	20.708 Data is not available Data is not available Data is not available 20.708 Data is not available 20.708	Oversupply
	7/21/2017 9:17 7/21/2017 9:20 7/21/2017 9:23 7/21/2017 9:24 7/21/2017 10:02	0:23 0:01 0:02 0:35 0:35 0:36	KWPII BS250 BS250 BS250 KWPII BS250	2.254 Data is not available Data is not available Data is not available 1.975 Data is not available	20.708 Data is not available Data is not available Data is not available 20.708 Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
	7/21/2017 9:17 7/21/2017 9:20 7/21/2017 9:23 7/21/2017 9:24 7/21/2017 10:02 7/21/2017 10:03	0:23 0:01 0:02 0:35 0:35 0:36 0:36	KWPII BS250 BS250 BS250 KWPII BS250 KWPII	2.254 Data is not available Data is not available Data is not available 1.975 Data is not available 2.702	20.708 Data is not available Data is not available Data is not available 20.708 Data is not available 20.708 Data is not available	Oversupply
	7/21/2017 9:17 7/21/2017 9:20 7/21/2017 9:23 7/21/2017 9:24 7/21/2017 10:02 7/21/2017 10:03 7/21/2017 12:15	0:23 0:01 0:35 0:35 0:36 0:36 0:36	KWPII BS250 BS250 BS250 KWPII BS250 KWPII BS250 KWPII BS250	2.254 Data is not available Data is not available Data is not available 1.975 Data is not available 2.702 Data is not available	20.708 Data is not available Data is not available Data is not available 20.708 Data is not available 20.708 Data is not available	Oversupply
	7/21/2017 9:17 7/21/2017 9:20 7/21/2017 9:23 7/21/2017 9:24 7/21/2017 9:24 7/21/2017 9:24 7/21/2017 9:24 7/21/2017 10:03 7/21/2017 12:15 7/21/2017 13:35	0:23 0:01 0:02 0:35 0:35 0:36 0:36 0:36 0:36 0:36 0:36 0:36 0:36	KWPII BS250 BS250 KWPII BS250 KWPII BS250 KWPII BS250 KWPII BS250 BS250 SS250	2.254 Data is not available Data is not available Data is not available 1.975 Data is not available 2.702 Data is not available 7.461 Data is not available	20.708 Data is not available Data is not available Data is not available 20.708 Data is not available	Oversupply
	7/21/2017 9:17 7/21/2017 9:20 7/21/2017 9:23 7/21/2017 9:24 7/21/2017 9:24 7/21/2017 10:03 7/21/2017 12:15 7/21/2017 12:15 7/21/2017 13:35 7/21/2017 13:37	0:23 0:01 0:02 0:35 0:35 0:36 0:36 1:14 1:15 0:03 0:03 0:03 0:03 0:03 0:03 0:03 0:0	KWPII BS250 BS250 BS250 KWPII BS250 KWPII BS250 KWPII BS250 KWPII BS250 KWPII	2.254 Data is not available Data is not available Data is not available 1.975 Data is not available 2.702 Data is not available 7.461 Data is not available 0.018	20.708 Data is not available Data is not available Data is not available 20.708 Data is not available Data is not available 20.708 Data is not available 20.708 Data is not available 20.708 Data is not available 20.707 Data is not available 20.708 Data is not available 20.707 Data is not available 20.708 D	Oversupply
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	7/21/2017 9:17 7/21/2017 9:23 7/21/2017 9:24 7/21/2017 9:24 7/21/2017 9:24 7/21/2017 10:02 7/21/2017 10:03 7/21/2017 12:15 7/21/2017 12:15 7/21/2017 13:37 7/21/2017 13:39 7/21/2017 13:34	0.23 0.01 0.02 0.35 0.35 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	KWPII BS250 BS250 BS250 KWPII	2.254 Data is not available Data is not available Data is not available Data is not available 2.702 Data is not available 7.461 Data is not available 0.018 Data is not available 0.018 0.015	20.708 Data is not available Data is not available Data is not available 20.708 Data is not available 20.708 Data is not available 20.708 Data is not available 20.707 Data is not available 20.707 Data is not available 20.708	Oversupply
	7/21/2017 9:17 7/21/2017 9:20 7/21/2017 9:23 7/21/2017 9:23 7/21/2017 10:02 7/21/2017 10:03 7/21/2017 12:15 7/21/2017 12:15 7/21/2017 13:33 7/21/2017 13:33 7/21/2017 13:41 7/22/2017 0:06	0:23 0:01 0:02 0:35 0:35 0:36 0:36 0:36 0:36 0:36 0:36 0:36 0:37 0:01 0:01 0:02 0:02 0:02 0:042	KWPII BS250 BS250 BS250 KWPII	2.254 Data is not available Data is not available Data is not available 1.975 Data is not available 2.702 Data is not available 7.461 Data is not available 0.018 Data is not available 0.018 0.015 3.247	20.708 Data is not available Data is not available Data is not available Data is not available 20.708 Data is not available 20.708 Data is not available 20.708 Data is not available 20.707 Data is not available 20.706 20.708 2	Oversupply
	7/21/2017 9:17 7/21/2017 9:20 7/21/2017 9:23 7/21/2017 9:23 7/21/2017 10:02 7/21/2017 10:03 7/21/2017 10:03 7/21/2017 12:15 7/21/2017 13:35 7/21/2017 13:39 7/21/2017 13:39 7/21/2017 13:41 7/22/2017 0:06 7/22/2017 1:08	0.23 0.01 0.02 0.35 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.33 0.01 0.03 0.01 0.04 0.02 0.02 0.02	KWPII BS250 BS250 BS250 KWPII	2.254 Data is not available Data is not available Data is not available 1.975 Data is not available 2.702 Data is not available 0.018 Data is not available 0.018 0.015 3.247 0.000	20.708 Data is not available Data is not available Data is not available Data is not available 20.708 Data is not available 20.708 Data is not available 20.707 Data is not available 20.707 20.708 20	Oversupply
	7/21/2017 9:17 7/21/2017 9:20 7/21/2017 9:23 7/21/2017 9:23 7/21/2017 10:02 7/21/2017 10:03 7/21/2017 12:15 7/21/2017 12:15 7/21/2017 13:33 7/21/2017 13:33 7/21/2017 13:41 7/22/2017 0:06	0:23 0:01 0:02 0:35 0:35 0:36 0:36 0:36 0:36 0:36 0:36 0:36 0:36	KWPII BS250 BS250 BS250 KWPII	2.254 Data is not available Data is not available Data is not available 1.975 Data is not available 2.702 Data is not available 7.461 Data is not available 0.018 Data is not available 0.018 0.015 3.247	20.708 Data is not available Data is not available Data is not available Data is not available 20.708 Data is not available 20.708 Data is not available 20.707 Data is not available 20.707 20.708 20	Oversupply
	7/21/2017 9:17 7/21/2017 9:20 7/21/2017 9:23 7/21/2017 9:23 7/21/2017 10:02 7/21/2017 10:03 7/21/2017 10:03 7/21/2017 12:15 7/21/2017 13:35 7/21/2017 13:39 7/21/2017 13:39 7/21/2017 13:41 7/22/2017 0:06 7/22/2017 1:08	0.23 0.01 0.02 0.35 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.33 0.01 0.03 0.01 0.04 0.02 0.02 0.02	KWPII BS250 BS250 BS250 KWPII	2.254 Data is not available Data is not available Data is not available 1.975 Data is not available 2.702 Data is not available 0.018 Data is not available 0.018 0.015 3.247 0.000	20.708 Data is not available Data is not available Data is not available 20.708 Data is not available 20.708 Data is not available 20.708 Data is not available 20.707 Data is not available 20.706 20.708 20	Oversupply
	7/21/2017 9:17 7/21/2017 9:20 7/21/2017 9:24 7/21/2017 9:24 7/21/2017 19:24 7/21/2017 10:02 7/21/2017 12:15 7/21/2017 12:15 7/21/2017 13:35 7/21/2017 13:35 7/21/2017 13:37 7/21/2017 13:39 7/21/2017 13:41 7/22/2017 1:08 7/22/2017 1:23 7/22/2017 1:23	0.23 0.01 0.02 0.35 0.35 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	KWPII BS250 BS250 BS250 KWPII KWPII KWPII KWPII	2.254 Data is not available Data is not available Data is not available Data is not available 2.702 Data is not available 7.461 Data is not available 0.018 Data is not available 0.015 3.247 0.000 21.503 0.003	20.708 Data is not available Data is not available Data is not available 20.708 Data is not available 20.708 Data is not available 20.707 Data is not available 20.707 Data is not available 20.706 20.706 20.708 20	Oversupply Ov
	7/21/2017 9:17 7/21/2017 9:23 7/21/2017 9:23 7/21/2017 9:24 7/21/2017 9:24 7/21/2017 10:02 7/21/2017 10:03 7/21/2017 12:15 7/21/2017 12:15 7/21/2017 13:37 7/21/2017 13:37 7/21/2017 13:341 7/22/2017 1:08 7/22/2017 1:23 7/22/2017 1:23	0.23 0.01 0.02 0.35 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	KWPII BS250 BS250 BS250 KWPII KWPII KWPII KWPII KWPII KWPII KWPII KWPII	2.254 Data is not available Data is not avai	20.708 Data is not available Data is not available Data is not available Data is not available 20.708 Data is not available 20.708 Data is not available 20.707 Data is not available 20.707 Data is not available 20.706 20.708 20.708 20.708 19.241 19.920	Oversupply Ov
	7/21/2017 9:17 7/21/2017 9:20 7/21/2017 9:24 7/21/2017 9:24 7/21/2017 19:24 7/21/2017 10:02 7/21/2017 12:15 7/21/2017 12:15 7/21/2017 13:35 7/21/2017 13:35 7/21/2017 13:37 7/21/2017 13:39 7/21/2017 13:41 7/22/2017 1:08 7/22/2017 1:23 7/22/2017 1:23	0.23 0.01 0.02 0.35 0.35 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	KWPII BS250 BS250 BS250 KWPII KWPII KWPII KWPII KWPII KWPII KWPII	2.254 Data is not available Data is not available Data is not available Data is not available 2.702 Data is not available 7.461 Data is not available 0.018 Data is not available 0.015 3.247 0.000 21.503 0.003	20.708 Data is not available Data is not available Data is not available Data is not available 20.708 Data is not available 20.708 Data is not available 20.707 Data is not available 20.707 Data is not available 20.706 20.708 20.708 20.708 19.241 19.920	Oversupply Ov

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



tart Date and Time	Duration	IPP Curtailed	Estimated Curtailed MWH	Peak MW Curtailed	Reasons for Curtailment
7/22/2017 8:43	0:01	BS250	Data is not available		Oversupply
7/22/2017 10:50	0:01	BS250	Data is not available		Oversupply
7/22/2017 10:51	0:01	KWPII	0.001		Oversupply
7/22/2017 10:51	0:02	KWPII	0.068		Oversupply
7/22/2017 23:49	0:02		0.088		
		KWPII			Oversupply
7/23/2017 1:49	0:35	KWPII	2.345		Oversupply
7/23/2017 3:44	0:05	KWPII	0.120		Oversupply
7/23/2017 3:52	0:04	KWPII	0.031		Oversupply
7/23/2017 3:59	0:03	KWPII	0.026		Oversupply
7/23/2017 4:03	0:02	KWPII	0.021		Oversupply ,
7/23/2017 4:06	0:24	KWPII	1.288	20.706	Oversupply
7/23/2017 9:07	0:01	BS250	Data is not available	Data is not available	Oversupply
7/23/2017 9:15	0:01	KWPII	0.001	20.705	Oversupply
7/23/2017 9:18	0:01	BS250	Data is not available	Data is not available	Oversupply
7/23/2017 9:20	0:03	BS250	Data is not available	Data is not available	Oversupply
7/23/2017 9:20	0:04	KWPII	0.035		Oversupply
7/23/2017 9:30	1:29	BS250	Data is not available	Data is not available	Oversupply
7/23/2017 9:31	1:09	KWPII	5.038		Oversupply
7/23/2017 10:41	0:19	KWPII	0.460		Oversupply
7/23/2017 11:03	0:01	KWPII	0.002		Oversupply
7/23/2017 11:09	0:08	BS250	Data is not available	Data is not available	Oversupply
7/23/2017 11:10	0:06	KWPII	0.164	20.257	Oversupply
7/23/2017 11:23	0:05	BS250	Data is not available	Data is not available	Oversupply
7/23/2017 11:23	0:05	KWPII	0.103	19.994	Oversupply
7/24/2017 2:51	0:01	AWE	0.002		Oversupply
7/24/2017 2:53	0:01	AWE	0.002		Oversupply
7/24/2017 23:07	0:09	KWPII	0.333		Oversupply
7/25/2017 4:43	0:09	KWPII	0.365		Oversupply
7/25/2017 4:43					
	0:02	KWPII	0.011		Oversupply
7/25/2017 6:04	0:13	BS250	Data is not available	Data is not available	Oversupply
7/25/2017 6:04	0:13	KWPII	0.303		Oversupply
7/25/2017 8:03	0:01	KWPII	0.000	13.243	Oversupply
7/25/2017 8:05	0:18	BS250	Data is not available	Data is not available	Oversupply
7/25/2017 8:05	0:18	KWPII	0.568	17.768	Oversupply
7/25/2017 9:22	0:01	KWPII	0.006	19.763	Oversupply
7/25/2017 9:26	0:39	BS250	Data is not available	Data is not available	Oversupply
7/25/2017 9:26	0:39	KWPII	5.116		Oversupply
7/25/2017 10:35	0:36	BS250	Data is not available	Data is not available	Oversupply
7/25/2017 10:36	0:35	KWPII	2.697		Oversupply
	0.55	KWPII	2.697		
7/05/00/77/// 00		00050	B + + + + + + + + + + + + + + + + + + +		
7/25/2017 11:20	0:02	BS250	Data is not available	Data is not available	Oversupply
7/25/2017 11:21	0:01	KWPII	0.002	Data is not available 19.996	Oversupply Oversupply
7/25/2017 11:21 7/25/2017 11:39	0:01 0:44	KWPII BS250	0.002 Data is not available	Data is not available 19.996 Data is not available	Oversupply Oversupply Oversupply
7/25/2017 11:21	0:01	KWPII	0.002	Data is not available 19.996 Data is not available	Oversupply Oversupply
7/25/2017 11:21 7/25/2017 11:39	0:01 0:44 0:43 0:01	KWPII BS250 KWPII BS250	0.002 Data is not available 5.927 Data is not available	Data is not available 19.996 Data is not available	Oversupply Oversupply Oversupply
7/25/2017 11:21 7/25/2017 11:39 7/25/2017 11:40	0:01 0:44 0:43	KWPII BS250 KWPII	0.002 Data is not available 5.927	Data is not available 19.996 Data is not available 20.435 Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply
7/25/2017 11:21 7/25/2017 11:39 7/25/2017 11:40 7/25/2017 12:24	0:01 0:44 0:43 0:01	KWPII BS250 KWPII BS250	0.002 Data is not available 5.927 Data is not available	Data is not available 19.996 Data is not available 20.435 Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
7/25/2017 11:21 7/25/2017 11:39 7/25/2017 11:40 7/25/2017 12:24 7/25/2017 12:24	0:01 0:44 0:43 0:01 0:01	KWPII BS250 KWPII BS250 KWPII	0.002 Data is not available 5.927 Data is not available 0.003	Data is not available 19.996 Data is not available 20.435 Data is not available 16.985 Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
7/25/2017 11:21 7/25/2017 11:39 7/25/2017 11:40 7/25/2017 12:24 7/25/2017 12:24 7/25/2017 12:28	0:01 0:44 0:43 0:01 0:01 0:02	KWPII BS250 KWPII BS250 KWPII BS250	0.002 Data is not available 5.927 Data is not available 0.003 Data is not available	Data is not available 19.996 Data is not available 20.435 Data is not available 16.985 Data is not available	Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply Oversupply
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7/25/2017 11:21 7/25/2017 11:39 7/25/2017 11:40 7/25/2017 12:24 7/25/2017 12:24 7/25/2017 12:28 7/25/2017 12:29 7/25/2017 12:31	0:01 0:44 0:43 0:01 0:01 0:02 0:01 3:20 3:20	KWPII BS250 KWPII BS250 KWPII BS250 KWPII BS250 KWPII BS250 KWPII	0.002 Data is not available 5.927 Data is not available 0.003 Data is not available 0.051 Data is not available 27.576	Data is not available 19.996 Data is not available 20.435 Data is not available 16.985 Data is not available 16.754 Data is not available 20.338	Oversupply
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DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) ATTACHMENT 6 PAGE 7 OF 11



Start Data and Time	Duration	IDD Curtailad	Estimated Curtailed MWH	Deals MM/ Curtailad	Decence for Custoliment
Start Date and Time	Duration	IPP Curtailed		Peak MW Curtailed	Reasons for Curtailment
7/26/2017 15:20	0:02	BS250	Data is not available	Data is not available	Oversupply
7/26/2017 15:27	0:03	BS250	Data is not available	Data is not available	Oversupply
7/26/2017 15:37	0:07	BS250	Data is not available	Data is not available	Oversupply
7/26/2017 15:39	0:05	KWPII	0.109	19.204	Oversupply
7/26/2017 15:47	0:05	BS250	Data is not available	Data is not available	Oversupply
7/26/2017 16:00	0:02	BS250	Data is not available	Data is not available	Oversupply
7/26/2017 16:03	0:06	BS250	Data is not available	Data is not available	Oversupply
7/26/2017 16:05	0:05	KWPII	0.097	19.211	Oversupply
7/27/2017 2:13	0:12	KWPII	0.283	19.178	Oversupply
7/27/2017 3:26	0:35	KWPII	0.631	19.211	Oversupply
7/27/2017 4:03	0:01	KWPII	0.000	19.206	Oversupply
7/27/2017 4:52	0:04	KWPII	0.021		Oversupply
7/27/2017 4:57	0:03	KWPII	0.015		Oversupply
	0:02	KWPII			
7/27/2017 5:01			0.005		Oversupply
7/27/2017 5:04	0:01	KWPII	0.003		Oversupply
7/27/2017 9:22	0:01	BS250	Data is not available	Data is not available	Oversupply
7/27/2017 9:29	0:03	BS250	Data is not available	Data is not available	Oversupply
7/27/2017 9:32	0:01	KWPII	0.012	19.150	Oversupply
7/27/2017 9:34	0:13	KWPII	0.736	19.133	Oversupply
7/27/2017 9:40	0:07	BS250	Data is not available	Data is not available	Oversupply
7/27/2017 9:50	0:06	BS250	Data is not available	Data is not available	Oversupply
7/27/2017 9:51	0:05	KWPII	0.076		Oversupply
7/27/2017 10:01	0:09	BS250	Data is not available	Data is not available	Oversupply
7/27/2017 10:02	0:09	KWPII	0.282		Oversupply
7/27/2017 10:19	0:05	BS250	Data is not available	Data is not available	Oversupply
7/27/2017 10:19	0:06	KWPII	0.123		Oversupply
	0:06	BS250		Data is not available	
7/27/2017 10:34			Data is not available		Oversupply
7/27/2017 10:35	0:23	KWPII	4.301		Oversupply
7/27/2017 10:46	0:06	AWE	0.180		Oversupply
7/27/2017 10:59	0:05	AWE	0.103		Oversupply
7/27/2017 10:59	0:23	KWPII	6.982		
7/27/2017 11:10	0:03	AWE	0.048	19.900	Oversupply
7/27/2017 11:25	0:13	KWPII	2.244	19.146	Oversupply
7/27/2017 11:39	1:48	KWPII	13.501	19.211	Oversupply
7/27/2017 12:06	1:14	BS250	Data is not available	Data is not available	Oversupply
7/27/2017 13:21	0:05	BS250	Data is not available	Data is not available	Oversupply
7/27/2017 13:29	0:05	BS250	Data is not available	Data is not available	Oversupply
7/27/2017 13:30	0:05	KWPII	0.142		Oversupply
7/27/2017 13:42	0:02	BS250	Data is not available	Data is not available	Oversupply
7/27/2017 13:42	0:02	KWPII	0.020		Oversupply
7/27/2017 13:53	0:01	KWPII	0.002		Oversupply
7/27/2017 14:03	0:13	BS250	Data is not available	Data is not available	Oversupply
7/27/2017 14:03	0:05	KWPII	0.071		Oversupply
7/27/2017 14:09	0:07	KWPII	0.142		Oversupply
7/27/2017 21:04	0:01	AWE	0.003	0.200	Oversupply
7/28/2017 3:32	0:01	KWPII	0.030	12.518	Oversupply
7/28/2017 4:01	0:02	KWPII	0.016	16.328	Oversupply
7/28/2017 4:04	0:04	KWPII	0.026	17.924	Oversupply
7/28/2017 5:41	0:01	AWE	0.005	0.300	Oversupply
7/28/2017 8:39	0:01	BS250	Data is not available	Data is not available	Oversupply
7/28/2017 9:22	0:25	BS250	Data is not available	Data is not available	Oversupply
7/28/2017 9:25	0:23	KWPII	1.042		Oversupply
7/28/2017 10:51	0:23	KWPII	0.001		Oversupply
	0:01		Data is not available	Data is not available	
7/28/2017 11:35		BS250			Oversupply
7/28/2017 11:37	0:20	KWPII	1.221		Oversupply
7/28/2017 12:00	0:08	BS250	Data is not available	Data is not available	Oversupply
7/28/2017 12:03	0:05	KWPII	0.114		Oversupply
7/28/2017 12:10	0:02	BS250	Data is not available	Data is not available	Oversupply
7/28/2017 12:10	0:02	KWPII	0.024		Oversupply
7/28/2017 12:17	0:04	BS250	Data is not available	Data is not available	Oversupply
7/28/2017 12:19	0:11	KWPII	0.197	17.615	Oversupply
7/28/2017 12:22	0:07	BS250	Data is not available	Data is not available	Oversupply
7/28/2017 12:31	0:02	BS250	Data is not available	Data is not available	Oversupply
7/28/2017 12:31	0:02	KWPII	0.009		Oversupply
7/28/2017 12:41	0:01	BS250	Data is not available	Data is not available	Oversupply
7/28/2017 12:44	0:21	BS250	Data is not available	Data is not available	Oversupply
7/28/2017 12:44	0:12		0.218		Oversupply
7/28/2017 12:57	0:12	KWPII	0.218		Oversupply
	0:08				
7/28/2017 13:08		BS250	Data is not available	Data is not available	Oversupply
7/28/2017 13:10	0:04	KWPII	0.074		Oversupply
7/28/2017 13:24	0:08	BS250	Data is not available	Data is not available	Oversupply
7/28/2017 13:26	0:06	KWPII	0.189		Oversupply
7/28/2017 13:33	0:05	KWPII	0.065		Oversupply
7/28/2017 13:34	0:03	BS250	Data is not available	Data is not available	Oversupply
7/28/2017 14:46	0:35	BS250	Data is not available	Data is not available	System constraint
7/28/2017 14:46	0:03	KWPII	0.056	19.940	System constraint
7/28/2017 14:50	0:32	KWPII	2.178	20.321	System constraint
7/28/2017 22:43	0:01	KWPII	0.017	20.604	Oversupply
			0.002		Oversupply
7/29/2017 2:02	0:01	KWP11	0.002		



DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) **ATTACHMENT 6 PAGE 8 OF 11**

July 2017

Maui Curtailment Report

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JP20217 200.010.0010.2120000aneghJP20217 300.010.0010.0	7/29/2017 2:33	0:03	KWPII	0.017	20.652	Oversupply
JackbornAutorAutorAutor <td>7/29/2017 2:40</td> <td>0:03</td> <td>KWPII</td> <td>0.031</td> <td>20.642</td> <td>Oversupply</td>	7/29/2017 2:40	0:03	KWPII	0.031	20.642	Oversupply
Jone 2007 100NVM0.0011.20JONE 100NVM0.0114.50JONE 100NVM0.0114.50JONE 100NVM0.0214.50JONE 100NVM0.0314.50JONE 100NVM0.0314.50JONE 100NVM0.0414.50JONE 100NVM0.0314.50JONE 1000.0414.500.004JONE 1000.040.0314.50JONE 1000.040.0314.50JONE 1000.040.0314.50JONE 1000.040.0314.50JONE 1000.040.0314.50JONE 1000.040.0314.50JONE 1000.040.030.044JONE 1000.040.040.044JONE 1000.040.040.044JONE 1000.040.040.044JONE 1000.040.040.044JONE 1000.040.040.044JONE 1000.040.040.044JONE 1000.040.0440.044JONE 1000.040.0440.044JONE 1000.040.0440.044JONE 1000.040.0440.044JONE 1000.0440.0440.044JONE 1000.0440.0440.044JONE 1000.0440.0440.044JONE 1000.0440.0450.044JONE 1000.0440.045 <td>7/29/2017 2:50</td> <td>0:16</td> <td>KWPII</td> <td>0.754</td> <td>20.655</td> <td>Oversupply</td>	7/29/2017 2:50	0:16	KWPII	0.754	20.655	Oversupply
3980171056001600860136010<	7/29/2017 3:48	0:11	KWPII	0.271	20.708	Oversupply
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170001738 0.11 KKP 0.28 19.16 Dersop 170001738 0.4 KKP 0.29 19.19 Dersop 170001748 0.44 KKP 0.09 19.19 Dersop 170001747 0.8 KKP 0.09 19.20 Dersop 170001748 0.14 KKP 0.02 17.20 Dersop 170001748 0.16 KKP 0.02 17.20 Dersop 170001748 0.16 KKP 0.02 17.20 Dersop 170001754 0.16 KKP 0.02 19.20 Dersop 170001754 0.13 KKP 0.03 19.20 Dersop 170001754 0.13 KKP 0.04 19.20 Dersop 170001754 0.30 KKP 0.04 19.20 Dersop 170001714 0.40 KKP 0.04 19.20 Dersop 170001714 0.40 KKP 0.04 Dersop	7/29/2017 11:57	0:02	KWPII	0.011	18.910	Oversupply
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NetworkNetworkNetworkNetwork7300071320.00KOPU0.00010300Mergoy7300071420.01KOPU0.00011300Mergoy7300071430.01KOPU0.01011450Mergoy7300071430.00KOPU0.01011710Mergoy7300071430.00KOPU0.00011450Mergoy7300071430.00KOPU0.00011620Mergoy7300071430.01KOPU0.00011620Mergoy7300071430.01KOPU0.00011620Mergoy7300071430.02KOPU0.00011620Mergoy7300071430.01KOPU0.00011620Mergoy7300071430.02KOPU0.00011620Mergoy7300071430.04KOPU0.010Mergoy7300071430.04KOPU0.010Mergoy7300071430.04KOPU0.010Mergoy7300071430.04KOPU0.010Mergoy7300071430.04KOPU0.010Mergoy7300071430.04KOPU0.010Mergoy7300071440.05KOPU0.000Mergoy7300071450.04KOPU0.010Mergoy7300071450.04KOPU0.010Mergoy7300071450.04KOPU0.010Mergoy7300071450.04KOPU0.010Mergoy <td< td=""><td>7/30/2017 0:38</td><td>0:11</td><td>KWPII</td><td>0.296</td><td>19.162</td><td>Oversupply</td></td<>	7/30/2017 0:38	0:11	KWPII	0.296	19.162	Oversupply
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7/31/2017 15:23 0:01 KWPII 0.014 19.503 System constraint						
	7/31/2017 15:23	0:01	KWPII	0.014	19.503	System constraint

Notes:

- Curtailment for Kaheawa Wind Power ("KWP"), Makila Hydroelectric ("MH"), AAAAA Rent-A-Space Maui LTD ("5A"), Bioreal Solar, LLC ("BS"), Auwahi Wind Energy ("AWE"), Kaheawa Wind Power II ("KWPII") Bioreal Solar 250, LLC ("BS250") 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 ("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 locer of 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 locer of the AGC MAVG - calculated is equal to CAVG less (RRDR less ARRD). esser of the AGC MAVG - calculated and AGC MAVG - entered values in the control logic.

- 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, BS 250 or MH.

- Curtailment signals sent to 5A, BS, or BS250 during nighttime hours are not recorded as curtailment events because no energy generation is possible during that time.

- 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 9 OF 11



Lanai Curtailment Report

July 2017

Start Date and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
7/3/2017 12:56	0:16	LSR	Data is not available	Data is not available	Oversupply
7/5/2017 14:34	0:00	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 7:02	0:01	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 7:12	0:01	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 7:24	0:02	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 13:49	0:01	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 13:53	0:05	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 14:09	0:02	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 14:22	0:01	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 14:24	0:01	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 14:32	0:04	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 14:40	0:04	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 14:49	0:01	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 14:52	0:42	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 15:36	0:06	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 15:44	0:17	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 16:07	0:01	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 16:14	0:03	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 16:23	0:01	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 16:26	0:02	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 16:31	0:01	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 16:34	0:06	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 16:48	0:02	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 16:52	0:25	LSR	Data is not available	Data is not available	Oversupply
7/9/2017 17:18	0:14	LSR	Data is not available	Data is not available	Oversupply
7/10/2017 6:47	1:00	LSR	Data is not available	Data is not available	Oversupply
7/10/2017 7:48	0:59	LSR	Data is not available	Data is not available	Oversupply
7/10/2017 8:55	0:11	LSR	Data is not available	Data is not available	Oversupply
7/10/2017 9:18	0:03		Data is not available	Data is not available	Oversupply
7/10/2017 9:48	0:03	LSR	Data is not available	Data is not available	Oversupply
7/10/2017 9:52	0:01	LSR	Data is not available	Data is not available	Oversupply
7/10/2017 10:24	0:02	LSR	Data is not available	Data is not available	Oversupply
7/10/2017 11:35	0:01	LSR	Data is not available	Data is not available	Oversupply
7/10/2017 11:38	0:02	LSR	Data is not available	Data is not available	Oversupply
7/10/2017 11:51	0:01	LSR	Data is not available	Data is not available	Oversupply
7/10/2017 12:05	0:01	LSR	Data is not available	Data is not available	Oversupply
7/10/2017 12:25	0:01	LSR LSR	Data is not available	Data is not available	Oversupply
7/10/2017 12:39 7/10/2017 12:52			Data is not available	Data is not available Data is not available	Oversupply
7/10/2017 12:52	0:04	LSR	Data is not available Data is not available		Oversupply
7/10/2017 13:04	0:02	LSR LSR		Data is not available	Oversupply
7/10/2017 14:01	0:06		Data is not available Data is not available	Data is not available Data is not available	Oversupply
7/10/2017 15:21	1:01	LSR LSR	Data is not available	Data is not available	Oversupply Oversupply
7/10/2017 16:58	0:16	LSR	Data is not available	Data is not available	Oversupply
7/11/2017 7:05		LSR	Data is not available	Data is not available	
7/11/2017 7:14	0:02	LSR	Data is not available	Data is not available	Oversupply Oversupply
7/11/2017 7:48	0:01	LSR	Data is not available	Data is not available	Oversupply
7/11/2017 8:30	0:01	LSR	Data is not available	Data is not available	Oversupply
7/11/2017 8:32	0:01	LSR	Data is not available	Data is not available	Oversupply
7/11/2017 8:36	0:19	LSR	Data is not available	Data is not available	Oversupply
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7/11/2017 9:16	0:12	LSR	Data is not available	Data is not available	Oversupply
7/11/2017 9:29	0:12	LSR	Data is not available	Data is not available	Oversupply
7/11/2017 9:43	0:05	LSR	Data is not available	Data is not available	Oversupply
7/11/2017 9:53	0:04	LSR	Data is not available	Data is not available	Oversupply
7/11/2017 9:59	0:01	LSR	Data is not available	Data is not available	Oversupply
7/11/2017 10:05	0:01	LSR	Data is not available	Data is not available	Oversupply
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7/11/2017 15:43	0:09	LSR	Data is not available	Data is not available	Oversupply
7/11/2017 15:57	0:18	LSR	Data is not available	Data is not available	Oversupply
7/11/2017 16:19	0:02	LSR	Data is not available	Data is not available	Oversupply
7/11/2017 16:33	0:11	LSR	Data is not available	Data is not available	Oversupply
7/11/2017 16:58	0:01	LSR	Data is not available	Data is not available	Oversupply
7/11/2017 17:13	0:03	LSR	Data is not available	Data is not available	Oversupply
7/11/2017 17:17	0:02		Data is not available	Data is not available	Oversupply
7/11/2017 17:21	0:03	LSR	Data is not available	Data is not available	Oversupply
7/11/2017 17:40	0:01	LSR	Data is not available	Data is not available	Oversupply
7/12/2017 7:57	0:11	LSR	Data is not available	Data is not available	Oversupply
7/12/2017 8:13	0:04	LSR	Data is not available	Data is not available	Oversupply
7/12/2017 8:18	0:08	LSR	Data is not available	Data is not available	Oversupply
7/12/2017 8:30	0:10		Data is not available	Data is not available	Oversupply
7/12/2017 8:45	0:04		Data is not available	Data is not available	Oversupply
7/12/2017 8:52	0:06		Data is not available	Data is not available	Oversupply
7/12/2017 9:12	0:02	LSR	Data is not available	Data is not available	Oversupply
7/12/2017 9:20	0:03	LSR	Data is not available	Data is not available	Oversupply
7/12/2017 9:24	0:02	LSR	Data is not available	Data is not available	Oversupply
7/12/2017 9:35	0:04		Data is not available	Data is not available	Oversupply
7/12/2017 9:41	0:06		Data is not available	Data is not available	Oversupply
7/12/2017 9:59	1:19		Data is not available	Data is not available	Oversupply
7/12/2017 11:19	0:15		Data is not available	Data is not available	Oversupply
7/12/2017 11:45 7/12/2017 11:57	2:28		Data is not available Data is not available	Data is not available	Oversupply Oversupply
7/12/2017 11:57	2:28	LSR	Data is not available	Data is not available Data is not available	Oversupply
7/12/2017 14:41	0:02	LSR	Data is not available	Data is not available	Oversupply
		LSR			
7/12/2017 16:57 7/12/2017 17:15	0:09		Data is not available Data is not available	Data is not available	Oversupply Oversupply
7/12/2017 17:15	0:05		Data is not available	Data is not available Data is not available	Oversupply
1/12/2017 17.22	0:06	LSR	Data is not available	Data is not available	Oversupply
	0:13	LSR	Data is not available	Data is not available	Oversupply
7/12/2017 17:29			Data is not available	Data is not available	Oversupply
7/12/2017 17:29 7/12/2017 18:00	0.04			Data is not available	
7/12/2017 17:29 7/12/2017 18:00 7/13/2017 7:17	0:01	LSR		Data is not available	Oversupply
7/12/2017 17:29 7/12/2017 18:00 7/13/2017 7:17 7/13/2017 7:31	0:23	LSR	Data is not available	Data is not available	Oversupply
7/12/2017 17:29 7/12/2017 18:00 7/13/2017 7:17 7/13/2017 7:31 7/13/2017 8:01	0:23 0:01	LSR LSR	Data is not available Data is not available	Data is not available	Oversupply
7/12/2017 17:29 7/12/2017 18:00 7/13/2017 7:17 7/13/2017 7:31	0:23	LSR	Data is not available		

DOCKET NO. 2011-0206 ORDER NO. 30371 I.C.(3)(a)&(b) **ATTACHMENT 6** PAGE 10 OF 11



Lanai Curtailment Report

July 2017

tart Date and Time	Duration	IPP Curtailed	Estimated MWh Curtailed	Peak MW Curtailed	Reasons for Curtailment
7/13/2017 9:37	0:01	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 9:39	0:07	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 9:48	0:03	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 9:55	0:02	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 10:09	0:08	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 10:21	0:02	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 10:33	0:03	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 10:40	0:02	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 10:44	0:03	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 10:48	0:02	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 10:54	0:01	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 10:56	0:04	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 11:01	0:05	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 11:21	0:10	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 11:34	0:03	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 11:39	0:01	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 11:41	0:01	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 11:46	0:03	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 11:50	0:00	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 11:52	0:02	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 11:56	0:02	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 11:58	2:36	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 14:35	0:17	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 14:58	0:01	LSR	Data is not available	Data is not available	Oversupply
7/13/2017 15:56 7/14/2017 6:59	2:56	LSR	Data is not available	Data is not available	Oversupply
	0:04	LSR	Data is not available	Data is not available	Oversupply
7/14/2017 7:05	0:09	LSR	Data is not available	Data is not available	Oversupply
7/14/2017 7:15	0:25	LSR	Data is not available	Data is not available	Oversupply
7/14/2017 7:47	4:39	LSR	Data is not available	Data is not available	Oversupply
7/14/2017 12:35	0:46	LSR	Data is not available	Data is not available	Oversupply
7/14/2017 13:23	0:42	LSR	Data is not available	Data is not available	Oversupply
7/14/2017 14:12	0:05	LSR	Data is not available	Data is not available	Oversupply
7/14/2017 15:20	0:12	LSR	Data is not available	Data is not available	Oversupply
7/17/2017 15:07	2:33	LSR	Data is not available	Data is not available	Oversupply
7/17/2017 17:52	0:01	LSR	Data is not available	Data is not available	Oversupply
7/17/2017 17:54	0:18	LSR	Data is not available	Data is not available	Oversupply
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7/17/2017 18:30	0:05	LSR	Data is not available	Data is not available	Oversupply
7/18/2017 7:28	0:10	LSR	Data is not available	Data is not available	Oversupply
7/18/2017 7:40	0:06	LSR	Data is not available	Data is not available	Oversupply
7/18/2017 7:53	0:03	LSR	Data is not available	Data is not available	Oversupply
7/18/2017 8:31	0:01	LSR	Data is not available	Data is not available	Oversupply
7/18/2017 8:39	0:01	LSR	Data is not available	Data is not available	Oversupply
7/18/2017 8:46	0:08	LSR	Data is not available	Data is not available	Oversupply
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7/18/2017 11:25	0:10	LSR	Data is not available	Data is not available	Oversupply
7/18/2017 14:43	0:09		Data is not available	Data is not available	Oversupply
7/18/2017 15:00	0:03	LSR	Data is not available	Data is not available	Oversupply
7/18/2017 17:34	0:02	LSR	Data is not available	Data is not available	Oversupply
7/18/2017 17:52				Data is not available	
	0:06	LSR	Data is not available		Oversupply
7/18/2017 18:00	0:07	LSR	Data is not available	Data is not available	Oversupply
7/19/2017 9:00	0:01	LSR	Data is not available	Data is not available	Oversupply
7/19/2017 9:13	0:43	LSR	Data is not available	Data is not available	Oversupply
7/19/2017 10:03	0:02	LSR	Data is not available	Data is not available	Oversupply
7/19/2017 10:06	0:01	LSR	Data is not available	Data is not available	Oversupply
7/19/2017 10:09	0:10	LSR	Data is not available	Data is not available	Oversupply
7/19/2017 11:15	1:00	LSR	Data is not available	Data is not available	Oversupply
7/19/2017 12:20	0:06	LSR	Data is not available	Data is not available	Oversupply
7/19/2017 14:51	0:02	LSR	Data is not available	Data is not available	Oversupply
7/20/2017 8:31	0:02	LSR	Data is not available	Data is not available	Oversupply
7/20/2017 8:42	0:28	LSR	Data is not available	Data is not available	Oversupply
7/20/2017 9:12	0:01	LSR	Data is not available	Data is not available	Oversupply
7/20/2017 9:33	0:04	LSR	Data is not available	Data is not available	Oversupply
7/20/2017 9:40	0:07	LSR	Data is not available	Data is not available	Oversupply
7/20/2017 9:59	0:04	LSR	Data is not available	Data is not available	Oversupply
7/20/2017 10:14	0:03	LSR	Data is not available	Data is not available	Oversupply
7/20/2017 10:18	0:05	LSR	Data is not available	Data is not available	Oversupply
7/20/2017 10:27	0:04		Data is not available	Data is not available	Oversupply
7/20/2017 13:13	0:06		Data is not available	Data is not available	Oversupply
7/22/2017 8:45	0:02	LSR	Data is not available	Data is not available	Oversupply
7/22/2017 8:51	0:02	LSR	Data is not available	Data is not available	Oversupply
7/22/2017 9:00	0:01	LSR	Data is not available	Data is not available	Oversupply
7/22/2017 9:04	0:06	LSR	Data is not available	Data is not available	Oversupply
7/22/2017 9:58	0:02		Data is not available	Data is not available	Oversupply
7/27/2017 7:50	0:02		Data is not available	Data is not available	Oversupply
7/27/2017 8:17	0:02		Data is not available	Data is not available	Oversupply
7/27/2017 8:26	0:05		Data is not available	Data is not available	Oversupply
				Data is not available	
7/27/2017 8:34	0:12	LSR	Data is not available		Oversupply
7/27/2017 8:47	0:02		Data is not available Data is not available	Data is not available Data is not available	Oversupply
	0:02		Data is not available	Data is not available Data is not available	Oversupply Oversupply
7/27/2017 8:57					IN IVERSIDEDIN

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.

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 11 OF 11

Start Date/Time	MW Output Prior to Start of Curtailment	End Date/Time	MW Output After Curtailment Released ¹	IPP	Reason for Curtailment
07/05/17 08:24	7.7 MW	07/06/17 13:43	6.1 MW	HRD	System constraint

Hawai`i Electric Light Company Curtailment Report July 2017

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.

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