



THE EFFECTIVENESS OF AUTOMATED PROCEDURES FOR IDENTIFYING DISPATCH INTERVALS SUBJECT TO REVIEW

2016 REVIEW

Published: **May 2017**





IMPORTANT NOTICE

Purpose

AEMO has prepared this document to provide information on AEMO's automated procedures for identifying dispatch intervals that may contain manifestly incorrect inputs, using information available as at the date of publication.

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EXECUTIVE SUMMARY

The National Electricity Rules (NER) require AEMO to apply automated procedures to identify dispatch intervals (DIs) that are subject to review. AEMO must then determine whether a DI subject to review contained a manifestly incorrect input (MII) to the dispatch algorithm. The NER also require AEMO to review and report on the effectiveness of these procedures.

This report analyses the effectiveness of AEMO's automated procedures for identifying DIs subject to review during 2016. It has been published to meet the requirements of rule 3.9.2B(l) of the NER.

There was no evidence in 2016 that the automated procedures were ineffective in detecting instances where an MII may have resulted in material differences in pricing outcomes. The automated procedures identified 217 DIs that were subject to review where none at that time were found to contain MII. Further investigations indicated that the prices for one DI that was flagged for review were incorrectly rejected. A report on this incident is being prepared.

AEMO does not believe tightening or relaxing the thresholds used in the existing automated procedures would result in material improvements to this process.

1. ANALYSIS OF DISPATCH INTERVALS SUBJECTED TO REVIEW DURING 2016

Incident number	Date time	Region	Price Status (A = accepted, R = rejected)	Price Change (Absolute)	Previous ROP (\$/MWh)	Current ROP (\$/MWh)	Interconnector	Prev Flow (MW)	Current Flow (MW)	Abs change in flow (MW)	Region flow threshold (MW)	Explanation	Reason
1	09/01/2016 16:25	SA1	A	63	3231	50	V-S-MNSP1	165	62	-102	100	Rebidding and non-scheduled generation coming online	Rebidding
2	09/01/2016 17:10	SA1	A	38	1450	37	V-S-MNSP1	163	0	-163	100	Rebidding and non-scheduled generation coming online	Rebidding
3	12/01/2016 23:45	SA1	A	6	55	361	V-S-MNSP1	10	114	104	100	Rebidding of capacity	Rebidding
4	13/01/2016 14:40	VIC1	A	4	64	300	V-SA	-173	-344	-171	150	Rebidding of capacity	Rebidding
		SA1	A	3	60	247	V-SA	-173	-344	-171	150		
5	13/01/2016 15:55	VIC1	A	15	13475	-988	V-SA	-500	-305	195	150	Rebidding and Generation no longer constrained off as the re-classification constraint was revoked	Rebidding/ Constraint equation action
6	14/01/2016 13:55	QLD1	A	11	295	26	NSW1-QLD1	-892	-646	245	240	Reduction in NSW demand and generation rebid available	Demand changes
7	03/02/2016 02:10	SA1	A	3	21	-45	V-SA	-144	61	205	150	Reduction in VIC demand and changes in interconnector due to constraint	Demand changes/ Constraint equation action
8	08/02/2016 15:05	QLD1	A	6	298	45	N-Q-MNSP1	66	-16	-83	80	Reduction in QLD demand	Demand changes
9	18/02/2016 15:40	QLD1	A	360	12700	35	NSW1-QLD1	212	-137	-349	240	Rebidding and reduction in QLD demand	Rebidding/ Demand changes
10	18/02/2016 16:05	QLD1	A	12	25	332	NSW1-QLD1	-397	158	554	240	Rebidding	Rebidding
		NSW1	A	8	34	300	NSW1-QLD1	-397	158	554	450		
11	18/02/2016 17:15	QLD1	A	502	12700	25	NSW1-QLD1	179	-468	-646	240	Rebidding	Rebidding
		QLD1	A	502	12700	25	N-Q-MNSP1	22	-59	-80	80		

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12	18/02/2016 17:35	QLD1	A	12700	0	12700	NSW1-QLD1	-560	177	737	240	Rebidding	Rebidding
13	18/02/2016 18:55	QLD1	A	364	12700	35	NSW1-QLD1	223	-164	-388	240	Rebidding	Rebidding
14	18/02/2016 19:05	QLD1	A	6	50	329	NSW1-QLD1	-204	122	326	240	Rebidding	Rebidding
15	18/02/2016 20:35	QLD1	A	5	35	199	NSW1-QLD1	-131	211	341	240	Rebidding	Rebidding
16	19/02/2016 17:10	QLD1	A	12682	12700	18	NSW1-QLD1	168	-317	-485	240	Rebidding and reduction in NSW demand	Rebidding/ Demand changes
		NSW1	A	281	300	18	NSW1-QLD1	168	-317	-485	450		
17	19/02/2016 17:25	QLD1	A	44	23	-999	N-Q-MNSP1	-73	8	81	80	Changes in interconnector due to constraint	Constraint equation action
18	19/02/2016 17:35	VIC1	A	6	26	171	V-S-MNSP1	184	-18	-202	100	Rebidding	Rebidding
		SA1	A	5	28	175	V-S-MNSP1	184	-18	-202	100		
		QLD1	A	6	-1000	210	NSW1-QLD1	-442	-33	409	240		
19	19/02/2016 18:50	QLD1	A	480	12889	27	NSW1-QLD1	196	-320	-516	240	Rebidding and reduction in QLD demand	Rebidding/ Demand changes
20	19/02/2016 19:05	QLD1	A	5	33	199	NSW1-QLD1	-402	94	496	240	Rebidding and increase in QLD demand	Rebidding/ Demand changes
		NSW1	A	4	34	183	NSW1-QLD1	-402	94	496	450		
21	21/02/2016 00:10	VIC1	A	26	21	-527	V-SA	134	421	287	150	Short-notice outage causing changes in interconnector from constraint and reduction in VIC demand	Short-notice outage
		SA1	A	1085	17	-1068	V-SA	134	421	287	150		
22	21/02/2016 00:15	VIC1	A	545	-527	18	V-SA	421	120	-300	150	Rebidding and changes in interconnector due to constraint	Rebidding/ Constraint equation action
		SA1	A	1081	-1067	14	V-SA	421	120	-300	150		
23	26/02/2016 13:00	QLD1	A	410	12948	32	NSW1-QLD1	169	-220	-389	240	Rebidding and reduction in QLD demand	Rebidding/ Demand changes
24	27/02/2016 22:40	QLD1	A	405	13789	34	NSW1-QLD1	326	-19	-345	240	Rebidding and reduction in QLD demand	Rebidding/ Demand changes
25	28/02/2016 22:10	QLD1	A	12870	12889	18	NSW1-QLD1	297	-433	-730	240	Rebidding and reduction in QLD demand	Rebidding/ Demand changes
		QLD1	A	12870	12889	18	N-Q-MNSP1	43	-42	-85	80		

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26	28/02/2016 22:35	QLD1	A	60	0	60	NSW1-QLD1	-746	-353	393	240	Rebidding	Rebidding
27	29/02/2016 06:55	QLD1	A	413	13789	33	NSW1-QLD1	178	-346	-524	240	Rebidding and reduction in QLD demand	Rebidding/ Demand changes
		QLD1	A	413	13789	33	N-Q-MNSP1	35	-46	-81	80		
28	02/03/2016 19:25	QLD1	A	367	12497	34	NSW1-QLD1	166	-290	-456	240	Rebidding and reduction in QLD demand	Rebidding/ Demand changes
29	08/03/2016 16:15	VIC1	A	11	320	27	VIC1-NSW1	-135	475	610	500	Rebidding	Rebidding
		VIC1	A	11	320	27	V-SA	-155	-353	-198	150		
		SA1	A	4	299	-998	V-SA	-155	-353	-198	150		
30	08/03/2016 16:35	SA1	A	18	-1000	59	V-SA	-425	-237	189	150	Rebidding and increase in SA demand	Rebidding/ Demand changes
31	08/03/2016 16:55	VIC1	A	18	606	11501	V-S-MNSP1	-126	26	152	100	Rebidding	Rebidding
		SA1	A	34	294	10411	V-S-MNSP1	-126	26	152	100		
32	08/03/2016 17:00	VIC1	A	530	11501	22	V-S-MNSP1	26	-81	-107	100	Rebidding	Rebidding
		SA1	A	10391	10411	19	V-S-MNSP1	26	-81	-107	100		
33	08/03/2016 17:25	VIC1	A	4	78	382	V-SA	115	-110	-225	150	Limited cheaper price generation and increase in SA demand	Demand changes
		SA1	A	4	80	363	V-SA	115	-110	-225	150		
34	08/03/2016 18:05	VIC1	A	10173	130	1320602	V-S-MNSP1	34	-129	-162	100	Rebidding and changes in interconnector due to constraint	Rebidding/C onstraint equation action
		SA1	A	9623	125	1202903	V-S-MNSP1	34	-129	-162	100		
35	08/03/2016 18:10	VIC1	A	41096	1320602	32	V-SA	-227	-49	178	150	Rebidding and increase in VIC demand	Rebidding/ Demand changes
		SA1	A	38549	1202903	31	V-SA	-227	-49	178	150		
36	08/03/2016 18:35	SA1	A	5	-1000	283	V-S-MNSP1	46	-72	-118	100	Rebidding and shifting of generation capacity	Rebidding/ Shifting
		VIC1	A	4	-1000	312	V-SA	-403	-236	167	150		
		QLD1	A	7	36	300	NSW1-QLD1	190	-281	-472	240		
		SA1	A	5	-1000	283	V-SA	-403	-236	167	150		
		NSW1	A	299	0	299	VIC1-NSW1	1080	317	-763	500		
		NSW1	A	299	0	299	NSW1-QLD1	190	-281	-472	450		
		VIC1	A	4	-1000	312	V-S-MNSP1	46	-72	-118	100		
VIC1	A	4	-1000	312	VIC1-NSW1	1080	317	-763	500				
37	09/03/2016 18:05	QLD1	A	7	36	272	NSW1-QLD1	-137	-542	-406	240	Rebidding	Rebidding

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38	13/03/2016 18:50	QLD1	A	347	13789	40	NSW1-QLD1	205	-95	-299	240	Rebidding and reduction in QLD demand	Rebidding/ Demand changes
39	15/03/2016 06:10	QLD1	A	446	13800	31	NSW1-QLD1	46	-245	-291	240	Rebidding and reduction in QLD demand	Rebidding/ Demand changes
40	18/03/2016 17:05	QLD1	A	209	12497	59	NSW1-QLD1	312	52	-260	240	Rebidding and shifting of generation capacity	Rebidding/ Shifting
41	18/03/2016 18:05	QLD1	A	339	12497	37	NSW1-QLD1	278	11	-267	240	Rebidding/shifting and reduction in QLD demand	Rebidding/ Shifting/ Demand changes
42	21/03/2016 06:35	QLD1	A	4	314	60	NSW1-QLD1	-45	-310	-265	240	Shifting of generation capacity	Shifting
43	22/03/2016 22:25	QLD1	A	513	13789	27	NSW1-QLD1	346	-164	-510	240	Rebidding and reduction in QLD demand	Rebidding/ Demand changes
44	23/03/2016 10:05	QLD1	A	404	13800	34	NSW1-QLD1	73	-222	-295	240	Shifting and reduction in QLD demand	Shifting/ Demand changes
45	28/03/2016 19:00	QLD1	A	409	13800	34	NSW1-QLD1	258	-87	-345	240	Rebidding and reduction in QLD demand	Rebidding/ Demand changes
46	30/03/2016 07:25	SA1	A	324	13329	41	V-S-MNSP1	220	97	-123	100	Rebidding	Rebidding
47	05/04/2016 03:50	VIC1	A	524	-531	-7	V-SA	154	-12	-166	150	Reduction in SA demand and changes in interconnector due to constraint	Demand changes/ Constraint equation action
		SA1	A	29	-1029	-35	V-SA	154	-12	-166	150		
48	05/04/2016 15:40	QLD1	A	3	66	268	N-Q-MNSP1	0	-86	-87	80	Increase in QLD and NSW demand	Demand changes
		NSW1	A	3	71	299	N-Q-MNSP1	0	-86	-87	80		
49	06/04/2016 17:05	VIC1	A	144	160	16	V-S-MNSP1	-163	0	163	100	Shifting of generation capacity causing changes in interconnector due to constraint	Shifting/ Constraint equation action
		SA1	A	68	86	18	V-S-MNSP1	-163	0	163	100		
50	11/04/2016 07:05	VIC1	A	4	164	32	V-S-MNSP1	-118	-18	100	100	Shifting of generation capacity	Shifting
		SA1	A	3	136	33	V-S-MNSP1	-118	-18	100	100		
51	11/04/2016 23:35	SA1	A	3	69	280	V-SA	-69	87	156	150	Demand spike due to hot water load management	Demand changes
52		VIC1	A	6	209	28	V-S-MNSP1	-111	0	111	100		Shifting/

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	19/04/2016 07:05	SA1	A	5	172	30	V-S-MNSP1	-111	0	111	100	Shifting and reduction in VIC demand	Demand changes
53	24/04/2016 22:40	SA1	A	4	207	41	V-S-MNSP1	-163	-45	118	100	Rebidding causing changes in interconnector due to constraint	Rebidding/Constraint equation action
54	25/04/2016 23:35	SA1	A	7	27	216	V-SA	174	336	162	150	Demand spike due to hot water load management	Demand changes
55	27/04/2016 01:45	QLD1	A	4	52	286	N-Q-MNSP1	-25	58	82	80	Marginal increase in demand	Demand changes
		NSW1	A	4	52	285	N-Q-MNSP1	-25	58	82	80		
56	27/04/2016 01:55	QLD1	A	5	284	49	N-Q-MNSP1	-23	60	82	80	Marginal decrease in demand	Demand changes
		NSW1	A	5	285	49	N-Q-MNSP1	-23	60	82	80		
		VIC1	A	7	68	-427	V-SA	86	492	405	150		
57	28/04/2016 14:15	SA1	A	19	60	-1085	V-SA	86	492	405	150	Reduction in demand, higher wind generation and changes in interconnector due to constraint	Demand & generation changes/Constraint equation action
		VIC1	A	4	-427	156	V-SA	492	212	-280	150		
58	28/04/2016 14:20	SA1	A	31	-1085	36	V-SA	492	212	-280	150	Changes in interconnector due to constraint	Constraint equation action
59	04/05/2016 23:40	QLD1	A	10	310	29	NSW1-QLD1	-67	176	243	240	Rebidding	Rebidding
60	05/05/2016 07:55	QLD1	A	508	13795	27	NSW1-QLD1	412	-96	-508	240	Rebidding and reduction in QLD demand	Rebidding/Demand changes
61	06/05/2016 06:30	VIC1	A	176	185	9	V-S-MNSP1	-117	-9	108	100		
		SA1	A	139	148	10	V-S-MNSP1	-117	-9	108	100	Rebidding	Rebidding
62	08/05/2016 10:35	VIC1	A	3	148	35	V-S-MNSP1	-163	-45	118	100	Shifting of generation capacity	Shifting
		VIC1	A	4	263	52	V-SA	155	330	175	150	Shifting of generation capacity	
63	16/05/2016 07:05	SA1	A	4	278	59	V-SA	155	330	175	150	Shifting of generation capacity and reduction in VIC demand	Shifting/Demand changes
		VIC1	A	7	270	32	V-SA	9	183	174	150		
64	17/05/2016 07:05	SA1	A	7	272	34	V-SA	9	183	174	150	Shifting of generation and cheaper generation coming online	Shifting/More cheaper generation
65	17/05/2016 08:15	SA1	A	184	6481	35	V-S-MNSP1	220	9	-211	100	Rebidding	Rebidding
66		VIC1	A	31	30	-899	VIC1-NSW1	633	132	-502	500	Limited	

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	18/05/2016 23:35	QLD1	A	7	36	305	NSW1-QLD1	6	-234	-240	240	interconnector flow due to outage and NIL constraints	Constraint equation action
		QLD1	A	7	36	305	N-Q-MNSP1	-26	56	81	80		
		NSW1	A	8	34	300	N-Q-MNSP1	-26	56	81	80		
		NSW1	A	8	34	300	VIC1-NSW1	633	132	-502	500		
67	18/05/2016 23:40	QLD1	A	7	305	36	N-Q-MNSP1	56	-29	-85	80	Changes in interconnector due to constraint no longer binding	Constraint equation action
		NSW1	A	8	300	35	N-Q-MNSP1	56	-29	-85	80		
68	20/05/2016 23:10	VIC1	A	5	41	252	V-SA	256	85	-171	150	Rebidding and increase in VIC demand	Rebidding/ Demand changes
		SA1	A	3	63	281	V-SA	256	85	-171	150	Increase in VIC demand and changes in interconnector flows due to constraints	Demand changes/ Constraint equation action
69	21/05/2016 0:35	SA1	A	4	49	234	V-S-MNSP1	-45	-175	-130	100	Rebidding of capacity and changes in interconnector flows due to constraints	Rebidding/ Constraint equation action
70	23/05/2016 0:05	VIC1	A	592	-7	-600	V-S-MNSP1	-155	-15	140	100	Decrease in VIC demand and changes in interconnector flow due to constraint during an unplanned outage	Demand changes/ Constraint equation action
		SA1	A	11	-36	-448	V-S-MNSP1	-155	-15	140	100		
71	23/05/2016 0:10	VIC1	A	599	-600	-1	V-S-MNSP1	-15	-169	-154	100	Changes in interconnector flow due to constraint during an unplanned outage	Constraint equation action
		SA1	A	12	-448	-35	V-S-MNSP1	-15	-169	-154	100		
72	23/05/2016 1:15	VIC1	A	894	-3	-896	V-S-MNSP1	-162	-2	160	100	Changes in interconnector flows due to constraint during an unplanned outage	Constraint equation action
		SA1	A	28	-35	-1000	V-S-MNSP1	-162	-2	160	100		
73	23/05/2016 1:25	VIC1	A	7	-495	-65	V-S-MNSP1	16	-113	-129	100	Rebidding of SA capacity during an unplanned outage	Rebidding
		SA1	A	7	-340	-43	V-S-MNSP1	16	-113	-129	100		

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74	23/05/2016 2:35	VIC1	A	4	-64	21	V-S-MNSP1	-70	-179	-109	100	Changes in interconnector flows due to constraint during an unplanned outage	Constraint equation action
75	23/05/2016 2:40	VIC1	A	24	21	-474	V-S-MNSP1	-179	-14	165	100	Changes in interconnector flows due to constraint during an unplanned outage	Constraint equation action
		SA1	A	9	-35	-335	V-S-MNSP1	-179	-14	165	100		
76	23/05/2016 3:35	VIC1	A	7	-66	-492	V-S-MNSP1	-115	13	128	100	Changes in interconnector flows due to constraint during an unplanned outage	Constraint equation action
		SA1	A	7	-45	-338	V-S-MNSP1	-115	13	128	100		
77	23/05/2016 4:50	VIC1	A	502	-506	-5	V-S-MNSP1	-45	-183	-138	100	Changes in interconnector flows due to constraint during an unplanned outage	Constraint equation action
		SA1	A	9	-338	-35	V-S-MNSP1	-45	-183	-138	100		
78	23/05/2016 4:55	VIC1	A	503	-5	-508	V-S-MNSP1	-183	-71	112	100	Changes in interconnector flows due to constraint during an unplanned outage	Constraint equation action
		SA1	A	9	-35	-349	V-S-MNSP1	-183	-71	112	100		
79	23/05/2016 5:05	VIC1	A	9	-507	-52	V-S-MNSP1	-51	-177	-126	100	Changes in interconnector flows due to constraint during an unplanned outage	Constraint equation action
		SA1	A	9	-338	-35	V-S-MNSP1	-51	-177	-126	100		
80	27/05/2016 6:30	QLD1	A	4	151	31	NSW1-QLD1	57	-198	-255	240	Rebidding of capacity	Rebidding
81	07/06/2016 7:05	VIC1	A	4	287	60	V-S-MNSP1	-1	169	169	100	Decrease in demand and shifting of capacity	Demand changes/ Shifting
82	11/06/2016 22:05	VIC1	A	5	44	272	V-S-MNSP1	220	18	-202	100	Increase in QLD demand and shifting of capacity	Demand changes/ Shifting
		QLD1	A	6	39	283	NSW1-QLD1	-780	-363	417	240		

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83	12/06/2016 22:05	QLD1	A	4	60	275	NSW1-QLD1	-918	-629	289	240	Shifting of capacity	Shifting
84	14/06/2016 6:40	SA1	A	64	16	80	V-S-MNSP1	-174	-63	111	100	Increase in demand	Demand changes
		SA1	A	64	16	80	V-SA	123	-53	-175	150		
85	17/06/2016 7:05	VIC1	A	3	300	70	V-SA	221	389	168	150	Decrease in VIC demand and shifting of VIC capacity	Demand changes/ Shifting
		SA1	A	3	325	79	V-SA	221	389	168	150		
86	20/06/2016 7:05	VIC1	A	3	289	72	V-SA	260	420	160	150	Decrease in VIC demand and shifting of VIC capacity	Demand changes/ Shifting
87	22/06/2016 7:05	QLD1	A	4	227	43	NSW1-QLD1	-410	-97	313	240	Shifting of NSW capacity	Shifting
88	23/06/2016 7:05	QLD1	A	7	274	36	NSW1-QLD1	-655	-395	260	240	Shifting of NSW capacity	Shifting
89	25/06/2016 23:35	VIC1	A	4	56	300	V-SA	168	360	193	150	Increase in SA demand due to hot water load management and rebidding of VIC capacity	Demand changes/ Rebidding
		SA1	A	5	60	337	V-SA	168	360	193	150		
90	27/06/2016 7:00	QLD1	A	6	36	268	NSW1-QLD1	-1033	-773	260	240	Increase in demand	Demand changes
91	27/06/2016 11:20	SA1	A	3	483	115	V-S-MNSP1	207	0	-207	100	Changes in interconnector flows due to constraints during a planned outage	Constraint equation action
		SA1	A	3	483	115	V-SA	-63	231	294	150		
92	27/06/2016 23:10	VIC1	A	4	59	287	V-SA	515	364	-151	150	Increase in VIC demand	Demand changes
		SA1	A	4	70	324	V-SA	515	364	-151	150		
93	28/06/2016 18:45	SA1	A	25	7281	280	V-SA	356	40	-316	150	Rebidding of capacity	Rebidding
94	02/07/2016 8:15	VIC1	A	7	267	35	V-S-MNSP1	27	128	101	100	Rebidding of capacity	Rebidding
95	06/07/2016 7:05	QLD1	A	9	255	26	NSW1-QLD1	-721	-397	324	240	Rebidding/ Shifting of NSW capacity	Rebidding/ Shifting
96	06/07/2016 12:55	SA1	A	323	10758	33	V-S-MNSP1	220	-1	-221	100	Rebidding of capacity during a planned outage	Rebidding
97	06/07/2016 16:45	SA1	A	126	13330	105	V-S-MNSP1	220	53	-167	100	Rebidding of capacity during a planned outage	Rebidding

Incident number	Date time	Region	Price Status (A = accepted, R = rejected)	Price Change (Absolute)	Previous ROP (\$/MWh)	Current ROP (\$/MWh)	Interconnector	Prev Flow (MW)	Current Flow (MW)	Abs change in flow (MW)	Region flow threshold (MW)	Explanation	Reason
98	07/07/2016 8:45	SA1	A	96	10580	110	V-S-MNSP1	208	-27	-235	100	Rebidding of capacity during a planned outage	Rebidding
99	07/07/2016 9:05	SA1	A	101	104	10613	V-S-MNSP1	-27	208	235	100	Rebidding/ Shifting of capacity during a planned outage	Rebidding/ Shifting
100	07/07/2016 9:15	SA1	A	419	419	0	V-S-MNSP1	112	-7	-119	100	Rebidding of capacity during a planned outage	Rebidding
101	07/07/2016 9:35	SA1	A	15	-37	500	V-S-MNSP1	-27	151	178	100	Shifting of capacity during a planned outage	Shifting
102	07/07/2016 13:30	VIC1	A	4	279	57	V-S-MNSP1	220	-52	-272	100	Rebidding of SA capacity during a planned outage	Rebidding
		SA1	A	203	10580	52	V-S-MNSP1	220	-52	-272	100		
103	07/07/2016 13:55	VIC1	A	5	327	59	V-S-MNSP1	220	-18	-238	100	Decrease in VIC demand/ Rebidding of SA capacity during a planned outage	Demand changes/ Rebidding
		SA1	A	178	10580	59	V-S-MNSP1	220	-18	-238	100		
104	07/07/2016 14:05	SA1	A	3	91	381	V-S-MNSP1	-52	107	158	100	Shifting of capacity during a planned outage	Shifting
105	07/07/2016 14:25	SA1	A	5	411	68	V-S-MNSP1	151	-27	-178	100	Rebidding of capacity during a planned outage	Rebidding
106	07/07/2016 14:35	SA1	A	4	79	373	V-S-MNSP1	-94	93	187	100	Shifting of capacity during a planned outage	Shifting
107	07/07/2016 14:50	SA1	A	101	10580	104	V-S-MNSP1	219	-1	-220	100	Rebidding of capacity during a planned outage	Rebidding
108	07/07/2016 16:15	SA1	A	107	10580	98	V-S-MNSP1	212	-27	-239	100	Rebidding of capacity during a planned outage	Rebidding
109	07/07/2016 16:35	SA1	A	4	79	401	V-S-MNSP1	-104	93	198	100	Shifting of capacity during a planned outage	Shifting
110	07/07/2016 16:55	SA1	A	73	10580	142	V-S-MNSP1	216	-18	-234	100	Rebidding of capacity during a planned outage	Rebidding
111	07/07/2016 17:30	SA1	A	107	10580	98	V-S-MNSP1	200	-27	-227	100	Rebidding of capacity during a planned outage	Rebidding

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112	07/07/2016 17:35	SA1	A	3	98	419	V-S-MNSP1	-27	115	142	100	Shifting of capacity during a planned outage	Shifting
113	07/07/2016 18:05	SA1	A	46	289	13482	V-S-MNSP1	-18	185	203	100	Shifting of capacity during a planned outage	Shifting
114	07/07/2016 18:35	SA1	A	80	173	14000	V-S-MNSP1	26	183	157	100	Shifting of capacity during a planned outage	Shifting
115	07/07/2016 18:45	SA1	A	4	477	105	V-S-MNSP1	181	-5	-186	100	Rebidding of capacity during a planned outage	Rebidding
116	07/07/2016 19:05	SA1	A	100	105	10580	V-S-MNSP1	-7	193	200	100	Shifting of capacity during a planned outage	Shifting
117	07/07/2016 20:05	SA1	A	4	109	504	V-S-MNSP1	10	197	187	100	Shifting of capacity during a planned outage	Shifting
118	07/07/2016 20:35	SA1	A	106	99	10580	V-S-MNSP1	-18	214	232	100	Shifting of capacity during a planned outage	Shifting
119	07/07/2016 20:50	SA1	A	3	350	80	V-S-MNSP1	219	21	-198	100	Rebidding of capacity during a planned outage	Rebidding
120	07/07/2016 21:05	VIC1	A	3	73	311	V-S-MNSP1	-27	220	247	100	Rebidding/ Shifting of capacity during a planned outage	Rebidding/ Shifting
		SA1	A	147	71	10580	V-S-MNSP1	-27	220	247	100		
121	07/07/2016 21:50	VIC1	A	9	328	32	V-S-MNSP1	195	-35	-229	100	Decrease in VIC demand/ Shifting of capacity during a planned outage	Demand changes/ Shifting
		SA1	A	18	588	31	V-S-MNSP1	195	-35	-229	100		
122	07/07/2016 22:05	VIC1	A	6	40	300	V-S-MNSP1	-79	108	187	100	Shifting of capacity during a planned outage	Shifting
		SA1	A	11	34	411	V-S-MNSP1	-79	108	187	100		
123	07/07/2016 23:35	SA1	A	4	99	481	V-S-MNSP1	-45	105	150	100	Increase in demand due to hot water load management during a planned outage	Demand changes
124	08/07/2016 8:00	SA1	A	139	10758	77	V-S-MNSP1	218	-16	-235	100	Rebidding of capacity during a planned outage	Rebidding

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125	08/07/2016 8:30	SA1	A	4	500	98	V-S-MNSP1	206	-27	-233	100	Rebidding of capacity during a planned outage	Rebidding
126	08/07/2016 19:05	SA1	A	4	82	410	V-S-MNSP1	58	211	153	100	Shifting of capacity during a planned outage	Shifting
127	08/07/2016 19:35	SA1	A	3	79	350	V-S-MNSP1	48	220	172	100	Shifting of capacity during a planned outage	Shifting
128	08/07/2016 23:35	SA1	A	160	87	14000	V-S-MNSP1	31	151	121	100	Increase in demand due to hot water load management during a planned outage	Demand changes
129	09/07/2016 0:05	SA1	A	7	36	300	V-S-MNSP1	-27	173	200	100	Shifting of capacity during a planned outage during a planned outage	Shifting
130	11/07/2016 23:35	QLD1	A	9	29	277	NSW1-QLD1	-335	-660	-325	240	Increase in SA demand due to hot water load management/ Changes in interconnector flows due to constraints during a planned outage	Demand changes/ Constraint equation action
		QLD1	A	9	29	277	N-Q-MNSP1	-65	16	81	80		
		NSW1	A	9	30	300	VIC1-NSW1	649	-326	-975	500		
		SA1	A	13987	13	14000	V-S-MNSP1	-140	-9	131	100		
		NSW1	A	9	30	300	N-Q-MNSP1	-65	16	81	80		
		VIC1	A	1308	18	-1290	VIC1-NSW1	649	-326	-975	500		
131	11/07/2016 23:40	VIC1	A	1290	-1290	0	T-V-MNSP1	133	355	222	190	Rebidding of capacity in SA/ Changes in interconnector flows due to constraints during a planned outage	Rebidding/ Constraint equation action
		VIC1	A	1290	-1290	0	VIC1-NSW1	-326	233	559	500		
		QLD1	A	8	277	31	N-Q-MNSP1	16	-68	-84	80		
		NSW1	A	8	300	32	N-Q-MNSP1	16	-68	-84	80		
		NSW1	A	8	300	32	VIC1-NSW1	-326	233	559	500		
132	12/07/2016 0:10	VIC1	A	63	-48	15	T-V-MNSP1	60	278	218	190	Changes in interconnector flows due to constraints during a planned outage	Constraint equation action
133	12/07/2016 0:25	QLD1	A	7	31	259	NSW1-QLD1	-671	-938	-267	240	Changes in interconnector flows due to constraints during a planned outage	Constraint equation action
		VIC1	A	9	-43	-414	T-V-MNSP1	291	78	-213	190		
		NSW1	A	8	34	295	N-Q-MNSP1	-72	10	82	80		
		QLD1	A	7	31	259	N-Q-MNSP1	-72	10	82	80		

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134	12/07/2016 4:35	SA1	A	112	13	125	V-S-MNSP1	-44	88	131	100	Marginal increase in SA demand/ Changes in interconnector flow due to constraint during a planned outage	Demand changes/ Constraint equation action
135	12/07/2016 5:35	SA1	A	107	125	18	V-S-MNSP1	115	1	-114	100	Changes in interconnector flow due to constraint during a planned outage	Constraint equation action
136	12/07/2016 8:55	SA1	A	388	13999	36	V-S-MNSP1	220	-24	-244	100	Rebidding of capacity during a planned outage	Rebidding
137	12/07/2016 11:00	TAS1	A	8	339	39	T-V-MNSP1	101	-102	-203	190	Changes in interconnector flow due to constraint	Constraint equation action
138	12/07/2016 15:30	SA1	A	11	-1000	-86	V-S-MNSP1	220	104	-116	100	Marginal increase in SA demand during a planned outage	Demand changes
139	12/07/2016 15:35	SA1	A	125	-86	10670	V-S-MNSP1	104	220	116	100	Shifting of capacity	Shifting
140	12/07/2016 15:40	SA1	A	12	10670	-1000	V-SA	-133	-314	-181	150	Rebidding of capacity	Rebidding
141	13/07/2016 23:35	QLD1	A	6	38	255	NSW1-QLD1	-640	-1030	-390	240	Increase in SA demand due to hot water load management	Demand changes
142	13/07/2016 23:40	QLD1	A	6	255	36	NSW1-QLD1	-1030	-747	282	240	Marginal decrease in demand/ Changes in interconnector flows due to constraints during a planned outage	Demand changes/ Constraint equation action
143	14/07/2016 0:05	SA1	A	47	28	1375	V-S-MNSP1	-38	110	148	100	Changes in interconnector flow due to constraint	Constraint equation action
144	14/07/2016 0:10	SA1	A	45	1375	30	V-S-MNSP1	110	-27	-137	100	Reduction in SA demand	Demand changes
145	14/07/2016 0:35	SA1	A	20	23	485	V-S-MNSP1	-72	164	236	100	Rebidding of capacity	Rebidding

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146	14/07/2016 20:50	SA1	A	9	1001	101	V-S-MNSP1	220	18	-202	100	Decrease in VIC demand	Demand Changes
		SA1	A	9	1001	101	V-SA	-118	302	420	150		
147	16/07/2016 19:05	SA1	A	3	83	350	V-S-MNSP1	12	203	191	100	Rebidding of capacity	Rebidding
148	18/07/2016 16:50	SA1	A	147	10569	71	V-S-MNSP1	220	111	-109	100	Rebidding of capacity	Rebidding
149	18/07/2016 23:35	SA1	A	20	28	579	V-S-MNSP1	-27	163	190	100	Increase in SA demand	Demand Changes
150	19/07/2016 7:05	SA1	A	31	-999	33	V-S-MNSP1	-169	28	198	100	Shift of capacity	Shifting
151	19/07/2016 7:40	VIC1	A	5	72	413	T-V-MNSP1	164	-31	-195	190	Reduction in wind generation	Wind generation change
		TAS1	A	5	69	408	T-V-MNSP1	164	-31	-195	190		
152	21/07/2016 0:05	SA1	A	5	50	300	V-S-MNSP1	63	213	150	100	Rebidding of capacity	Rebidding
153	21/07/2016 7:05	VIC1	A	3	293	72	V-S-MNSP1	-18	97	115	100	Decrease in VIC demand and rebidding of capacity	Demand Changes/Rebidding
154	22/07/2016 9:25	SA1	A	1866	51801	28	V-S-MNSP1	220	2	-218	100	Rebidding of capacity	Rebidding
155	22/07/2016 9:45	SA1	A	5	26	161	V-S-MNSP1	-18	86	104	100	Fast Start unit outside minimum run time	Fast Start Profile
156	22/07/2016 16:40	SA1	A	13982	14000	18	V-S-MNSP1	220	73	-147	100	Rebidding of capacity	Rebidding
157	26/07/2016 10:25	SA1	A	6	42	313	V-S-MNSP1	90	220	130	100	Unplanned network outage	Unplanned outage
		SA1	A	6	42	313	V-SA	390	109	-281	150		
158	09/08/2016 13:30	VIC1	A	287	19	-267	T-V-MNSP1	200	0	-200	190	Change in interconnector flow due to constraint	Constraint equation action
159	09/08/2016 13:35	VIC1	A	287	-267	20	V-SA	365	129	-236	150	Increase in VIC demand	Demand Changes
		SA1	A	593	-592	1	V-SA	365	129	-236	150		
160	11/08/2016 22:05	VIC1	A	7	32	250	V-S-MNSP1	220	71	-149	100	Shift of capacity	Shifting
161	22/08/2016 7:05	VIC1	A	5	294	47	V-SA	414	575	161	150	Decrease in VIC demand and shift of capacity	Shifting
162	23/08/2016 7:05	VIC1	A	3	299	69	V-SA	378	556	178	150	Decrease in VIC demand and shift of capacity	Demand Changes/ Shifting
		SA1	A	3	344	85	V-SA	378	556	178	150		
163	24/08/2016 23:35	VIC1	A	4	59	277	V-SA	229	396	167	150	Increase in SA demand	Demand Changes
		SA1	A	4	65	321	V-SA	229	396	167	150		

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164	25/08/2016 22:05	VIC1	A	4	49	253	V-SA	575	356	-219	150	Rebidding of capacity	Rebidding
		SA1	A	4	60	288	V-SA	575	356	-219	150		
165	25/08/2016 23:35	VIC1	A	3	67	288	V-SA	184	354	170	150	Increase in SA demand	Demand Changes
		SA1	A	4	71	327	V-SA	184	354	170	150		
166	31/08/2016 17:10	SA1	A	8	300	35	V-SA	250	462	212	150	Changes in interconnector flows due to constraints during a planned outage	Constraint equation action
167	01/09/2016 7:05	VIC1	A	4	231	48	T-V-MNSP1	361	163	-198	190	Decrease in VIC demand and shift of capacity	Demand Changes/ Shifting
168	03/09/2016 21:25	TAS1	A	8	35	310	T-V-MNSP1	-50	-248	-198	190	Rebidding of capacity	Rebidding
169	08/09/2016 20:40	SA1	A	46657	46672	15	V-SA	189	-61	-250	150	Rebidding of capacity	Rebidding
170	14/09/2016 22:05	VIC1	A	6	45	300	T-V-MNSP1	-161	38	199	190	Shift of capacity	Shifting
171	24/09/2016 23:05	TAS1	A	147	17	164	T-V-MNSP1	-113	-315	-203	190	Rebidding of capacity	Rebidding
172	28/09/2016 16:30	VIC1	A	102	6	-96	VIC1-NSW1	1390	839	-551	500	SA Separation Event	Separation Event
		VIC1	A	102	6	-96	V-SA	-416	0	416	150		
		SA1 ¹	A	1010	10	-1000	V-SA	-416	0	416	150		
173	01/10/2016 23:35	QLD1	A	5	51	287	NSW1-QLD1	27	-307	-334	240	Increase in NSW demand and shift of capacity	Demand changes/ Shifting
		NSW1	A	5	49	289	N-Q-MNSP1	-25	57	82	80		
		QLD1	A	5	51	287	N-Q-MNSP1	-25	57	82	80		
174	01/10/2016 23:40	QLD1	A	273	287	14	NSW1-QLD1	-307	-46	261	240	Rebidding of capacity	Rebidding
		NSW1	A	275	289	13	N-Q-MNSP1	57	-28	-85	80		
		QLD1	A	273	287	14	N-Q-MNSP1	57	-28	-85	80		
175	03/10/2016 23:30	VIC1	A	533	16	-517	VIC1-NSW1	771	148	-623	500	Change in interconnector flow due to constraint	Constraint equation action
		VIC1	A	533	16	-517	T-V-MNSP1	350	136	-214	190		
176	03/10/2016 23:35	VIC1	A	527	-517	10	T-V-MNSP1	136	384	249	190	Increase in SA demand and shift of capacity	Demand changes/ Shifting
		VIC1	A	527	-517	10	V-SA	100	300	200	150		
		SA1 ¹	A	4	410	66	V-SA	100	300	200	150		
177	04/10/2016 2:05	SA1 ¹	A	992	-1000	-8	V-SA	300	123	-177	150	Change in interconnector flow due to constraint	Constraint equation action

¹ AEMO suspended the spot market in SA from 1600 hrs on 28 September 2016 until 2330 hrs on 11 October 2016. During market suspension, although NEMDE identified dispatch intervals subject to review based on the automated procedures (developed under NER 3.9.2B(h)), these prices were overwritten by the 'suspension pricing schedule' in accordance with NER clause 3.14.5. Further details regarding the market suspension can be found in the [SA Black System Final Report](#).

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178	04/10/2016 6:30	TAS1	A	431	27334	63	T-V-MNSP1	119	325	206	190	Decrease in TAS demand and increase in wind generation	Demand Changes/ Wind Generation Change
179	11/10/2016 23:05	QLD1	A	4	58	263	N-Q-MNSP1	-65	16	81	80	Shift of capacity	Shifting
		NSW1	A	4	61	278	N-Q-MNSP1	-65	16	81	80	Shift of capacity	Shifting
180	13/10/2016 22:05	QLD1	A	7	31	259	NSW1-QLD1	-368	-651	-283	240	Increase in NSW demand	Demand Changes
181	14/10/2016 7:05	VIC1	A	4	272	58	T-V-MNSP1	356	120	-236	190	Decrease in VIC demand and rebidding of capacity	Demand Changes/ Rebidding
182	19/10/2016 15:50	SA1	A	382	70	26900	V-SA	250	-23	-273	150	Incorrect SCADA injection reported as good quality resulted in incorrect acceptance. Scheduling error report for MII under preparation.	MI
183	24/10/2016 7:05	VIC1	A	4	269	59	T-V-MNSP1	527	319	-208	190	Decrease in VIC demand	Demand Changes
184	29/10/2016 22:05	QLD1	A	8	31	262	N-Q-MNSP1	-56	26	82	80	Rebidding and Shifting of Capacity	Rebidding/ Shifting
		NSW1	A	7	32	269	N-Q-MNSP1	-56	26	82	80		
185	29/10/2016 22:10	QLD1	A	4	262	56	N-Q-MNSP1	26	-62	-88	80	Increased availability of lower priced capacity	Lower priced capacity available
		NSW1	A	4	269	58	N-Q-MNSP1	26	-62	-88	80		
186	31/10/2016 9:35	TAS1	A	54	5274	97	T-V-MNSP1	-93	152	245	190	Increased ramp rates	Ramp Rates
187	11/11/2016 7:05	VIC1	A	4	160	31	T-V-MNSP1	403	164	-239	190	Decrease in VIC demand	Demand Changes
188	11/11/2016 22:05	QLD1	A	5	55	309	NSW1-QLD1	151	-111	-263	240	Increase in NSW demand	Demand Changes
189	12/11/2016 22:35	QLD1	A	4	50	263	N-Q-MNSP1	-8	74	82	80	Shift of capacity	Shifting
		NSW1	A	4	49	260	N-Q-MNSP1	-8	74	82	80		
190	12/11/2016 22:40	QLD1	A	3	263	62	N-Q-MNSP1	74	-11	-85	80	Increased availability of lower priced capacity	Lower priced capacity available
		NSW1	A	3	260	61	N-Q-MNSP1	74	-11	-85	80		
191	13/11/2016 22:05	QLD1	A	9	31	316	N-Q-MNSP1	-41	39	80	80	Increase in QLD demand	Demand Changes
		NSW1	A	9	30	300	N-Q-MNSP1	-41	39	80	80		

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192	13/11/2016 23:35	QLD1	A	4	58	273	N-Q-MNSP1	-41	40	82	80	Increase in SA demand	Demand Changes
		QLD1	A	4	58	273	NSW1-QLD1	-482	-738	-256	240		
		NSW1	A	4	61	296	N-Q-MNSP1	-41	40	82	80		
193	16/11/2016 17:55	SA1	A	286	10550	37	V-SA	579	399	-180	150	Rebidding of capacity	Rebidding
194	18/11/2016 6:05	TAS1	A	85	84	-1	T-V-MNSP1	-59	140	199	190	Shift of capacity	Shifting
195	22/11/2016 14:05	VIC1	A	22	48	-993	VIC1-NSW1	1211	360	-851	500	Change in interconnector flow due to constraint and rebidding	Constraint equation action/ Rebidding
196	30/11/2016 10:50	SA1	A	10679	197	2100000	V-SA	250	-147	-397	150	Change in interconnector flow due to constraint and rebidding	Constraint equation action/ Rebidding
197	30/11/2016 11:40	SA1	A	4	485	90	V-SA	-111	101	212	150	Change in interconnector flow due to constraint	Constraint equation action
198	30/11/2016 12:05	TAS1	A	52	349	18661	T-V-MNSP1	283	79	-204	190	Constrained generation	Generation reduction
199	01/12/2016 10:00	SA1	A	7006	300	2100000	V-SA	250	-200	-450	150	Unplanned outage of line	Unplanned outage
200	01/12/2016 10:05	SA1	A	124	210000	16855	V-SA	-200	-408	-208	150	Unplanned outage of line	Unplanned outage
201	01/12/2016 10:30	SA1	A	20	54	-1000	V-SA	-477	-250	227	150	Unplanned outage of line	Unplanned outage
202	01/12/2016 10:45	SA1	A	15	70	-1000	V-SA	-250	-76	174	150	Unplanned outage of line	Unplanned outage
203	02/12/2016 0:05	TAS1	A	84	11	94	T-V-MNSP1	-162	-353	-191	190	Rebidding of capacity	Rebidding
204	05/12/2016 0:50	VIC1	A	543	11	-532	T-V-MNSP1	-371	-3	369	190	Reduction in TAS demand	Demand Changes
205	05/12/2016 14:05	VIC1	A	265	275	9	VIC1-NSW1	406	-127	-533	500	Shift of capacity	Shifting
		NSW1	A	4	389	84	VIC1-NSW1	406	-127	-533	500		
206	10/12/2016 20:25	SA1	A	13	43	579	V-SA	553	364	-189	150	Withdrawal of generation capacity	Rebidding
207	12/12/2016 8:30	SA1	A	4	300	56	V-SA	418	580	162	150	Change in interconnector flow due to constraint	Constraint equation action
208	16/12/2016 6:35	QLD1	A	309	14000	45	NSW1-QLD1	156	-187	-343	240	Decrease in QLD demand and rebidding and shifting of capacity	Demand changes/ Rebidding/ Shifting
		QLD1	A	309	14000	45	N-Q-MNSP1	68	-13	-81	80		

Incident number	Date time	Region	Price Status (A = accepted, R = rejected)	Price Change (Absolute)	Previous ROP (\$/MWh)	Current ROP (\$/MWh)	Interconnector	Prev Flow (MW)	Current Flow (MW)	Abs change in flow (MW)	Region flow threshold (MW)	Explanation	Reason
209	16/12/2016 22:55	QLD1	A	11	423	37	N-Q-MNSP1	64	-17	-80	80	Rebidding of capacity	Rebidding
210	17/12/2016 22:10	QLD1	A	28	1401	48	N-Q-MNSP1	68	-17	-85	80	Rebidding of capacity	Rebidding
211	20/12/2016 0:55	VIC1	A	1016	16	-1000	V-SA	545	377	-168	150	Change in interconnector flow due to constraint	Constraint equation action
		SA1	A	491	28	13999	V-SA	545	377	-168	150		
212	20/12/2016 9:45	TAS1	A	12666	12	12678	T-V-MNSP1	122	-154	-277	190	Loss of generation	Generation reduction
213	22/12/2016 13:30	SA1	A	7	300	36	V-SA	225	418	193	150	Changes in interconnector flows due to constraints during a planned outage	Constraint equation action
214	23/12/2016 13:45	SA1	A	61	80	19	V-SA	225	389	164	150	Changes in interconnector flows due to constraints during a planned outage	Constraint equation action
215	26/12/2016 22:15	TAS1	A	350	-1	349	T-V-MNSP1	-200	0	200	190	Unplanned outage of interconnector	Unplanned outage
216	30/12/2016 16:25	QLD1	A	311	12442	40	NSW1-QLD1	173	-137	-309	240	Decrease in QLD demand and rebidding of capacity	Demand changes/Rebidding
217	31/12/2016 13:40	QLD1	A	13991	14000	10	NSW1-QLD1	188	-286	-474	240	Decrease in QLD demand and rebidding of capacity	Demand changes/Rebidding
		QLD1	A	13991	14000	10	N-Q-MNSP1	36	-45	-81	80		



GLOSSARY

Term	Definition
DI	Dispatch Interval
MII	Manifestly Incorrect Input
NER	National Electricity Rules
Price Change	The price threshold is breached if either: $\text{Min} (\text{ROP}_i , \text{ROP}_{i-1}) > X$ and $\text{Price Change} = \text{ROP}_i - \text{ROP}_{i-1} / \text{Min} (\text{ROP}_i , \text{ROP}_{i-1}) > Y$ Or, $\text{Min} (\text{ROP}_i , \text{ROP}_{i-1}) \leq X$ and $\text{Price Change} = \text{ROP}_i - \text{ROP}_{i-1} > X * Y$ Where X and Y are regional specific parameters.
ROP	Regional Original Price