
Status Report prepared under
clause 7.12 of the Market Rules
by System Management
21 March 2007



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1 Introduction

1.1 System Management

Western Power is established under section 4(1)(b) of the *Electricity Corporations Act 2005* and has the functions conferred under section 41 of that act.

Part 9 of the *Electricity Industry Act 2004* makes provision for a wholesale electricity market and provides for the establishment of Market Rules.

One of the core functions undertaken by Western Power is the management of the electricity transmission and distribution networks. Regulation 13 of the *Electricity Industry (Wholesale Electricity Market) Regulations 2004* provides that the Market Rules may confer on an entity the function of operating the SWIS in a secure and reliable manner.

Clause 2.2 of the *Wholesale Electricity Market Amending Rules (September 2006)* (**Market Rules**) confers this responsibility upon the segregated (“ringfenced”) business unit of Western Power known as System Management. Amongst these responsibilities, the functions of System Management are to:

- release information required by the Market Rules;
- monitor rule participants compliance with the Market Rules relating to dispatch and power system security and power system reliability; and
- provide regular reports to the IMO and other market participants.

Included in the requirement to monitor and report is the Status Report which is described in clause 7.12 of the Market Rules.

1.2 Status Report

System Management has prepared this report pursuant to its obligations under clause 7.12 of the Market Rules, for the period 22 December 2006 to 21 March 2006.

2 Issuance of Dispatch Instructions

System Management issued a total of 21 Dispatch Instructions to Market Participants.

Of these, 4 were “minimum MW” instructions, 9 were “target MW” instructions, and 8 were instructions to return to the Resource Plan.

3 Non-compliance with Dispatch Instructions

No instances of non-compliance with Dispatch Instructions occurred.

4 Transmission constraints

A “transmission constraint” refers to the configuration of the transmission network that has an effect or potential effect of constraining or otherwise varying the output of a generator. The resultant situation has a generation facility either decrease output, or not increase output as it would if the constraint did not exist.

System Management has identified 11 instances of potential or actual transmission constraints during the relevant period. This does not include any potential or actual transmission constraints arising because of commercial decisions taken by market participants.

Transmission constraints as a result of planned outages appear in Appendix A. Transmission constraints due to forced outages are discussed below. Note that all times refer to WDST.

4.1 Northern Terminal constraint

On 15 February 2007 at 14:15 there was a connection failure on the NT-PJR 132KV circuit which caused a conductor to fall onto both 132KV bus-bars. The Malaga substation was without power until supplies were restored at 15:13. This fault also resulted in Pinjar Unit 11 being run out of merit order.

4.2 Mungarra constraint

On 24 February 2007 at 16:12 there was a failure on MGA-TS 82. This resulted in the North Country Region being islanded, leading to curtailments at Walkaway Windfarm. The circuit was re-closed at 13:29 on 1 March 2007.

4.3 Kwinana constraint

On 5 March 2007 at 23:02 a relay on the KW 963.0 line failed. This was returned to service on 8 March 2007 at 16:05. This had the possibility of constraining Kwinana Unit 5.

5 Shortfalls in Ancillary Services

No instances of shortfalls in Ancillary Services occurred.

6 Involuntary curtailment of load

One instance of involuntary curtailment of load occurred during the period. The Northern Terminal Constraint discussed above (4.1) resulted in 72 MW/h of involuntary curtailment between 1 and 2 pm on 15 February 2007.

No other instances of involuntary curtailment of load, requiring major rotational load shedding, occurred.

7 High Risk Operating State

No instances requiring the release of a Dispatch Advisory occurred.

8 Emergency Operating State

No instances of an Emergency Operating State occurred.

Appendix 1: Generation Constraints As A Result Of Planned Outages

ATTACHMENT 1 - Generation Constrained As A Result Of Planned Outages					
Plant	Ref	Program	Duration	Condition	GenConstraint
MOR-TS 81	N0032476000	24491	19Feb07 to 28Feb07	MGA and GTN generators to be available for a single contingency. This outage has a potential of triggering the WWF runback when the load in MGA-TS82 exceeds 362A (82MVA at 132kV).	Mga
SF-KW 81	N0031947000	24286	20Jan07	When in conj with MH-RO/MSS for a system load of 2180/1013 MW/MVAr and with full IPP support in the KW-area, KWA/B and CKB at 334/226 MW respectively, a trip of KW-ST81 will load the CC81-KMC leg to 1039A (29 C rating).	Kwin A/B
SF-KW 81	N0032342000	24426	15Feb07 to 17Feb07	At a system load of 2503MW/1242MVar and PJR generation = 50MW, a trip of KW-ST82 would load KW-ST81 to 1641A (1600A hard limit).	Pjr
TS-MGA 81	N0032370000	OOS	17Jan07 to 24Jan07	MGA and GTN generators to be available for a single contingency. This outage has a potential of triggering the WWF runback when the load in MGA-TS82 exceeds 362A (82MVA at 132kV).	Mga
TS-MGA 81	N0032457000	24375	05Feb07 to 10Feb07	MGA and GTN generators to be available for a single contingency. This outage has a potential of triggering the WWF runback when the load in MGA-TS82 exceeds 362A (82MVA at 132kV).	Mga
TS-MGA 81	N0032751000	24375	12Feb07 to 14Feb07	MGA and GTN generators to be available for a single contingency. This outage has a potential of triggering the WWF runback when the load in MGA-TS82 exceeds 362A (82MVA at 132kV).	Mga
TS-MGA 82	N0033158000	24497	09Mar07 to 14Mar07	MGA and GTN generators to be available for a single contingency. This outage has a potential of triggering the WWF runback when the load in MGA-TS82 exceeds 362A (82MVA at 132kV).	Mga
TS-MGA 82	TW074720000	24497	26Feb07 to 03Mar07	MGA and GTN generators to be available for a single contingency. This outage has a potential of triggering the WWF runback when the load in MGA-TS82 exceeds 362A (82MVA at 132kV).	Mga