
Status Report prepared under
clause 7.12 of the Market Rules
by System Management
21 December 2006



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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

This report has been prepared by System Management pursuant to its obligations under clause 7.12 of the Market Rules, for the period 21 September to 21 December 2006.

2 Issuance of Dispatch Instructions

A total of 180 Dispatch Instructions were issued by System Management to Market Participants.

Of these, 112 were “minimum MW” instructions, and 68 were “target MW” instructions.

3 Non-compliance with Dispatch Instructions

As a result of its monitoring program, System Management made one allegation to the Independent Market Operator that a breach of a Dispatch Instruction by a Market Participant occurred during the relevant period.

4 Transmission constraints

A “transmission constraint” refers to the configuration of the transmission network which has an effect or potential effect of constraining or otherwise restricting the output of a generator.

System Management has identified four instances of potential transmission constraints during the relevant period.

4.1 Kwinana constraint

On 20 to 22 October 2006 outages to the KW-SF 81 and KW-CC/MED 81 lines had the effect of potentially constraining generation at Kwinana Power Station to 440 MW.

4.2 Three Springs constraint

On 17 November 2006 the Walkaway windfarm was constrained to an output of 20 MW due to maintenance of a high voltage bus coupler outage at Three Springs. This outage was scheduled to coincide with a pre-arranged outage to the windfarm which constrained its generation capacity to 45 MW.

4.3 Goldfields islanding

On Monday 27 November 2006 at 14:20 the Merredin Terminal – Yilgarn – West Kalgoorlie Terminal X1 line tripped. The Yilgarn substation, two feeders at West Kalgoorlie Terminal and three feeders at Piccadilly were blacked out. The total load estimated to be lost was 28.0 MW and the Goldfields system was islanded from the remainder of the SWIS.

The Merredin Terminal – Yilgarn – West Kalgoorlie Terminal X1 line was closed back in at 16:05.

4.4 North Country islanding

The North Country was islanded on 17 and 18 December 2006 (times are WDST).

Sunday 17 December 2006.

- 08:12 ENB-TS81 line tripped on fault.
- 17:58 MOR-TS81 line and MOR substation 132kV buszone protection operated. (As ENB-TS81 line was already out of service the north country was islanded).
- 17:58 The output of Walkaway windfarm was limited to 10 MW.
- 18:48 MOR substation restored to normal.

Monday 18 December 2006

- 14:34 ENB-TS81 fault repaired and line returned to service. North Country reconnected to rest of the network.
- 14:45 Walkaway windfarm output restored to normal.
- 18:28 MOR-TS81 fault repaired and line returned to service.

5 Shortfalls in Ancillary Services

No instances of shortfalls in Ancillary Services occurred.

6 Involuntary curtailment of load

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

7 High Risk Operating State

One instance of a High Risk Operating State occurred.

At 15:58 on 26 September 2006 System Management issued a Dispatch Advisory to Market Participants advising that a High Risk Operating State was to be called between 16:30 and was expected to end at 20:00. Market participants were advised:

“system management is aware that one or more market participants have been notified by their fuel supplier or transporter that a fuel shortage is likely.”

The High Risk Operating State was called on the basis that the condition expressed in clause 3.4.1(h) of the Market Rules was satisfied, due to gas transportation curtailments.

Market participants were not asked to take any action, other than to note the dispatch advisory. The High Risk Operating State was withdrawn from 19:30 on 26 September 2006.

8 Emergency Operating State

No instances of an Emergency Operating State occurred.