

ELECTRICITY INDUSTRY ACT

ELECTRICITY INDUSTRY (WHOLESALE ELECTRICITY MARKET) REGULATIONS 2004

WHOLESALE ELECTRICITY MARKET RULES

Power System Operation Procedure: Monitoring and Reporting Protocol

Commencement: This Market Procedure is to have effect from 8:00am (WST) on the same date as the Wholesale Electricity Market Rule, in which this Procedure is made in accordance with, commences.

Version history	
21 September 2006	Power System Operation Procedure (Market Procedure) for Monitoring and Reporting Protocol
12 September 2009	System Management amended changes to the procedure resulting from Procedure Change Proposal PPCL 0012
30 June 2011	System Management amended changes to the procedure resulting from Procedure Change Proposal PPCL 0019

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1. MONITORING AND REPORTING PROTOCOL

The Power System Operation Procedure: Monitoring and Reporting Protocol ('Procedure') details procedures that System Management must follow to monitor Rule Participant's compliance with Market Rules and the Power System Operation Procedures, and to provide information about breaches, or other information the IMO may request, to the IMO.

2. RELATIONSHIP WITH MARKET RULES

1. This Procedure has been developed in accordance with, and should be read in conjunction with clauses 2.13 and 2.15 of the Wholesale Electricity Market (WEM) Rules (Market Rules).
2. References to particular Market Rules within the Procedure in bold and square brackets **[MR XX]** are current as at 1 December 2010. These references are included for convenience only, and are not part of this Procedure.
3. In performing its functions under the Market Rules, System Management may be required to disclose certain information to Market Participants and Network Operators. In selecting the information that may be disclosed, System Management will utilise best endeavours and act in good faith to disclose only the information reasonably required by the application of the Market Rules.

3. SCOPE

This Procedure details the processes that System Management will follow to monitor Rule Participant's compliance with Market Rules and the Power System Operation Procedures, and to provide information about breaches, or other information the IMO may request, to the IMO.

4. ASSOCIATED PROCEDURES AND OPERATING STANDARDS

While there are no Power System Operation Procedures directly associated with this Procedure, the monitoring activities described in this procedure should be read in conjunction with other Power System Operation Procedures.

5. MONITORING COMPLIANCE OF MARKET PARTICIPANTS

1. The requirements for System Management to monitor and report Rule Participants behaviour within respective Tolerance Range and Facility Tolerance Ranges, as applicable, are specified in the Market Rules **[MR 2.13.6, MR 2.13.6A, MR 2.13.6B, MR 2.13.6C]**.
2. Specific Market Rules that must be monitored by System Management are specified in the Market Rules **[MR 2.13.9]**. System Management must monitor Rule Participant compliance in accordance with the primary measures summarised in Appendix 1.

3. To the extent that specific monitoring activities in this Procedure are inconsistent with the Market Rules, the Market Rules prevail.
4. System Management may provide information to Market Participants relating to compliance issues. In no way does this provision of this information, or lack thereof, obviate a Market Participant from complying with the Market Rules or Power System Operation Procedures.

5.1 GENERAL MONITORING PROCESSES

1. Where possible, System Management will use automated methods to determine compliance.
2. System Management will utilise information methods including, but not limited to:
 - a. communication to System Management;
 - b. SCADA;
 - c. information provided by the IMO including Standing Data and Resource Plans; and
 - d. outage information.
3. In determining whether a given activity is in accordance with the Market Rules, System Management may request further information from Market Participants.

5.2 INITIAL DETERMINATION AND SUBSEQUENT ANNUAL REVIEW OF TOLERANCE RANGE AND RELEVANT FACILITY TOLERANCE RANGES

1. The requirements System Management must adhere to when determining a monitoring Tolerance Range to apply to all Facilities for the purposes of System Management's reporting of alleged breaches of clause 7.10.1 are stipulated in the Market Rules. **[MR 2.13.6D]**
2. System Management must consult with Rule Participants prior to setting the Tolerance Range. **[MR 2.13.6D]** System Management must initiate consultation by publishing a proposed Tolerance Range(s) on the Market Web Site, and inviting Rule Participants to provide submissions within six weeks. System Management must submit its responses to each issue raised in submissions received from Rule Participants to the IMO for publication on the Market Web Site.
3. System Management must conduct the consultation process in section 5.2.2 of this Procedure in good faith and allow relevant stakeholders reasonable opportunity to comment **[MR 2.21.4]**.
4. System Management may determine a proposed Tolerance Range to apply to all facilities. In making this determination System Management must consider the following:
 - a. the variability of generation/load movement in aggregate on:
 - (i) the SWIS at any point in time; and
 - (ii) the overall effect on system frequency;
 - b. the Load Following requirement;
 - c. Facility ramping behaviours;

- d. the proportion of Facilities required to comply with Resource Plans synchronised on the system during an average Trading Day; and
- e. any other factors that may influence real time operation of the SWIS.

[MR 2.13.6D]

5. At least 14 Business Days prior to the date from which a change to the Tolerance Range becomes effective, System Management must submit to the IMO for publication on the Market Web Site:
 - a. all submissions received from Rule Participants;
 - b. the Tolerance Range;
 - c. an effective date for the commencement of the Tolerance Range.**[MR 2.13.6D],**
6. If System Management considers that the Tolerance Range for all Facilities is not suitable for a particular facility in accordance with section 5.2.9, it may determine a specific Facility Tolerance Range for that particular facility in accordance with section 5.2.11 of this Procedure.
7. If a Market Participant considers that the Tolerance Range for all Facilities is not suitable for its particular facility, the Market Participant may submit an application by email to System Management stating the reasons why the Tolerance Range is less suitable for its particular facility concerned. System Management may, in accordance with section 5.2.11 of this Procedure, determine a specific Facility Tolerance Range for the facility.
8. The circumstances in which System Management may exercise its discretion to determine a specific Facility Tolerance Range include:
 - a. first time entry of small loads into the SWIS;
 - b. generators with excessively variable output; or
 - c. any other exceptional circumstances which System Management considers reasonable.
9. System Management must consult with Market Participants prior to setting a specific Facility Tolerance Range **[MR 2.13.6E]**. System Management must follow the same consultation process in section 5.2.2 of this Procedure prior to setting a specific Facility Tolerance Range for a particular facility.
10. In facilitating the consultation process in section 5.2.9 of this Procedure, System Management must conduct the process in good faith and allow relevant stakeholders reasonable opportunity to comment **[MR 2.21.4]**.
11. System Management may determine a specific Facility Tolerance Range to apply to a particular facility. In making this determination System Management must consider the following:
 - a. the variability of generation/load movement on the SWIS at any point in time;
 - b. individual Facility ramping behaviour;
 - c. the proportion of Facilities required to comply with Resource Plans synchronised on the system during an average Trading Day;
 - d. Standing Data and any operating constraints on the Market Participant's Facility of which System Management is aware; and
 - e. any other factors that may influence the real time operation of the SWIS. **[MR 2.13.6E]**

12. At least 14 Business Days prior to the date from which a change to the specific Facility Tolerance Range becomes effective, System Management must submit to the IMO for publication on the Market Web Site:
 - a. the reasons for System Management's decision to apply a specific Facility Tolerance Range in place of a the Tolerance Range;
 - b. any submissions received from Market Participants;
 - c. the applicable Facility Tolerance Range; and
 - d. an effective date for the commencement of the applicable Facility Tolerance Range. **[MR 2.13.6E]**
13. Where a specific Facility Tolerance Range is determined, this Facility Tolerance Range will apply to a particular Facility in place of the Tolerance Range.
14. System Management must review the Tolerance Range and all Facility Tolerance Ranges at least annually **[MR2.13.6G]**. System Management must follow the same consultation process in section 5.2.2 of this Procedure prior to setting a Tolerance Range and a specific Facility Tolerance Range(s).
15. Following a review, System Management may vary the Tolerance Range or a specific Facility Tolerance Range(s) **[MR 2.13.6G]**. Varied Tolerance Range and Facility Tolerance Range(s) are effective from the date specified by System Management, as published by the IMO on the Market Web Site **[MR 2.13.6D and MR 2.13.6E]**.
16. Where the IMO gives a direction to System Management to vary a specific Facility Tolerance Range in accordance with the Market Rules **[MR 2.13.6H]**, that direction will apply until the Facility Tolerance Range is varied with clause 2.13.6G of the Market Rules **[MR 2.13.6I]**.

5.3 FORCED OUTAGES

1. The requirements for Market Participants to provide details of Forced Outages are specified in the Market Rules **[MR 3.21]**.
2. System Management will determine the availability of facilities based on communications from the relevant Market Participant.
3. Final details of Forced Outages must be provided to System Management via SMMITS in accordance with the Market Rules **[MR 3.21.7]** and the PSOP: Facility Outages.
4. The SMMITS system will not accept Forced Outages notified outside the timeframe indicated in the Market Rules **[MR 3.21.7]**.
5. System Management will investigate any communication relating to facility availability that is not in accordance with the information contained in SMMITS as per the Market Rules **[MR 3.21.7]**.

5.4 ELECTRICITY GENERATION CORPORATION

1. The requirements for the Electricity Generation Corporation (**EGC**) to comply with directions are specified in the Market Rules **[MR 7.6A]**.

2. As required by the Market Rules **[MR 7.6A.4]**, System Management may only consider dispatch compliance of EGC where non-compliance of a direction could endanger Power System Security.
3. System Management must have regard to good electricity practice in determining whether conduct in accordance with section 5.4.2 could endanger Power System Security.

6. SYSTEM MANAGEMENT TO SELF-MONITOR

System Management will monitor its own compliance with the Market Rules.

7. STATUS REPORTS

The requirements for System Management to provide records to the IMO (**Status Reports**) are specified in the Market Rules **[MR 3.18.17, 3.19.13, 7.12]**.

8. INCIDENT INVESTIGATIONS

1. The requirements for System Management to notify the IMO of incidents in the operation of equipment are specified in the Market Rules **[MR 3.8]**.
2. System Management must define and publish actions that require notification in accordance with the Market Rules **[MR 3.8]**.
3. The requirements for System Management to investigate incidents are specified in the Market Rules **[MR 3.8]**.

9. ALLEGED BREACHES

1. Where System Management determines that there is sufficient basis for suspecting non-compliance with a Market Rule or Market Procedure, System Management is obliged to report the matter to the IMO. The requirements for System Management to allege breaches of the Market Rules or Market Procedures are specified in the Market Rules **[MR 2.13.8]**.
2. Where System Management determines an alleged breach by a Market Participant satisfies the criteria within clause 2.13.6B of the Market Rules, System Management is not required to report this alleged breach to the IMO **[MR 2.13.6B]**.
3. In determining an alleged breach by a Market Participant, System Management must take account of the Tolerance Range or Facility Tolerance Range for a particular facility determined in accordance with the Market Rules **[MR 2.13.6D and MR 2.13.6E]**.
4. Before alleging a breach with the IMO, System Management may request an explanation from the relevant Rule Participant.

5. Where the party causing the alleged breach is the IMO, System Management must report the alleged breach to the person appointed by the Minister as specified in the Market Rules **[MR 2.13.8]**.

APPENDIX 1 PRIMARY MEASURES USED TO MONITOR

Clause	Description	Proposed Measures
3.4.6	Market Participants must comply with System Management directions and endeavour to assist System Management during high risk operating state.	Following a High Risk Operating State, SM will investigate the actions of all Market Participants in receipt of a direction to ensure that any directions were complied with.
3.4.8	Market Participant must immediately inform System Management if cannot comply with direction.	Monitored through compliance with directions. All such notifications will be logged, and investigated.
3.5.8	Market Participants must comply with System Management directions and endeavour to assist System Management during emergency operating state.	Monitored through compliance with directions.
3.5.10	Market Participant must immediately inform System Management if cannot comply with direction.	Monitored through compliance with directions. All such notifications will be logged, and investigated.
3.6.5	Networks must implement load shedding plans.	This will be identified through observation, and the required reporting for the Under Frequency Load Shedding Plan will be monitored.
3.6.6B	Networks must comply with manual disconnection instructions from System Management.	This will be identified through observation of SCADA data following such an instruction.
3.16.4	Market Participants must provide MT-PASA information.	Any Market Participant not providing required information will be investigated.
3.16.7	Market Participants must provide MT-PASA information.	Any Market Participant not providing required information will be investigated.
3.16.8A	Market Participants must provide additional MT-PASA information requested by System Management.	Any Market Participant not providing required information will be investigated.
3.17.5	Market Participants must provide ST-PASA information.	Any Market Participant not providing required information will be investigated.
3.17.6	Market Participants must update ST-PASA information if it changes.	SM will monitor the actual situation of facilities and will identify any anomalies with the PASA.
3.18.2(f)	Market Participant must comply with outage scheduling and approval process if Facility listed on the equipment list in 3.18.2(f)	System Management will monitor discrepancies between planned and actual outage times and report these variations as an alleged breach.
3.21A.2	Market Participant must request Commissioning Test trials from System Management.	This will be determined by observation. Any facility that should provide a plan and does not will be investigated.
3.21A.12	Market Participant must conform to the Commissioning Test plan approved by System Management.	This will be determined by observation.

Clause	Description	Proposed Measures
3.21A.13	Market Participant must inform SM if it cannot conform to the Commissioning Test plan approved by System Management.	This will be determined by observation. Any facility that should provide such notification and does not will be investigated.
3.21B.1	Except when given a Planned Outage, a Market Participant must seek permission from System Management before putting a Scheduled Generator (holding Capacity Credits) into a state where it will take more than four hours to resynchronise the Scheduled Generator.	This will be determined by observation at the point where a Market Participant is called to dispatch their facility and is unable. Any facility that failed to provide such notification, which caused the failure to dispatch to the facility to the relevant level, will be investigated
3.21B.2	Market Participant must make request in accordance with 3.21B.1 not less than two hours prior to the facility ceasing to be able to be re-synchronised within four hours, including particular information as per the Market Rules.	Notification will be logged and investigated where appropriate.
4.10.2	Market Participant who claims alternative fuel must have on site fuel or uninterruptible fuel supply.	This will be determined by observation should the IMO instruct SM.
4.25.13	Market Participant who claims alternative fuel must have on site fuel or uninterruptible fuel supply.	Subject to the IMO's instruction, this will be determined by observation by System Management
7.2.5	Each Market Generator must by 10am each day provide to System Management for each of its Intermittent Generators with capacity exceeding 10 MW its most current forecast of the MWh energy output of the Intermittent Generator in accordance with the Market Rules.	This will be determined by observation. Any facility that should provide such forecast information and does not will be investigated.
7.5.5	Market Participant can only switch fuels under certain circumstances.	Any fuel change notification will be logged and investigated where appropriate.
7.7.6 (b)	Market Participant must confirm receipt of Dispatch Instruction	This will be determined by observation.
7.10.1	Market Participant must comply with resource plan, dispatch instructions or directions from System Management.	This will be determined by observation.
7.10.3	Market Participant must inform System Management where it cannot comply.	This will be determined by observation.
7.10.6	Market Participant must comply with System Management direction to follow resource plan etc, or inform System Management if it cannot.	This will be determined by investigation following a warning issued under 7.10.5.
7.10.6A	Market Participant that cannot comply with dispatch plan must notify SM.	This will be determined by observation.
7.11.7	Market Participants and networks must comply with System Management directions in Dispatch Advisory.	This will be determined by observation.