

# ELECTRICITY INDUSTRY ACT

## ELECTRICITY INDUSTRY (WHOLESALE ELECTRICITY MARKET) REGULATIONS 2004

### WHOLESALE ELECTRICITY MARKET RULES

# Power System Operation Procedure: Facility Outages

**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.

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## 1. FACILITY OUTAGE PROCEDURE

The Power System Operation Procedure: Facility Outages Procedure ('Procedure') details procedures that System Management and Rule Participants must follow when planning for an outage of a network, generation, load or Ancillary Service Facility.

## 2. RELATIONSHIP WITH MARKET RULES

1. This Procedure has been developed in accordance with, and should be read in conjunction with clauses 3.18 to 3.21 of the Wholesale Electricity Market (WEM) and Rules (Market Rules).
2. References to particular Market Rules within the Procedure in bold and square brackets **[MR XX]** are current as at 7 October 2008. 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

The Facility Outage Procedure details the processes that enable Market Participants and Network Operators to gain agreement with System Management on the timing of outages of facilities; to resolve possible conflicts between Outage Plans of different participants and assist System Management in the management of system security.

## 4. ASSOCIATED PROCEDURES AND OPERATING STANDARDS

The following Power System Operation Procedures are associated with this Power System Outage Procedure.

- a) Power System Operation Procedure – Communications and Control Systems
- b) Power System Operation Procedure – Power System Security
- c) Power System Operation Procedure – Commissioning and Testing

## 5. APPLICATION OF OUTAGE PROCEDURE TO FACILITIES

The requirements for Market Participant or Network Operator Facilities to be subject to the Facility Outage Procedure set out in this document are specified in the Market Rules **[MR 3.18.2(f)]**.

## **5.1 System Management must compile and maintain a list of all equipment on the SWIS**

1. The requirements for System Management to compile and maintain a list of all equipment in the SWIS that is required to be subject to outage scheduling by System Management are specified in the Market Rules **[MR 3.18.2(a)&(b)]**.
2. System Management will compile and maintain the list of equipment covered by this Procedure, where its maintenance will be reviewed from time to time.
3. System Management will provide the list for publication in accordance with the Market Rules **[MR 3.18.2(e)]**.

## **5.2 Content of equipment list**

1. Notwithstanding requirements of the Market Rules **[MR 3.18.2(c)]** the list of equipment should, where applicable, include:
  - (a) all network circuits that could limit output from a generating facility during a planned outage of that circuit;
  - (b) all EGC generating units;
  - (c) all circuit breakers, switches and transformers operating at 330kV and 220kV;
  - (d) all Non-EGC generating facilities with output ratings in excess of 10MW; and
  - (e) any facilities contracted to provide Ancillary Services that are not covered by the above.
2. System Management may determine that generators and loads with a name plate capacity rating less than 10MW may be included in the equipment list, where outage scheduling is required for the maintenance of Power System Security and Power System Reliability, as specified in the Market Rules **[MR 3.18.2A]**.

## **5.3 Application of Procedures for part of year**

1. System Management may specify a piece of equipment to be part of the list at a particular time of the year in accordance with the Market Rules **[MR 3.18.2(d)]**.
2. In determining whether a piece of equipment should be subject to outage scheduling at specified times of the year, System Management may utilise the equipment list as guidance in exercising its discretion.

## **5.4 List of equipment covered may be varied**

1. A Market Participant or Network Operator who wishes to have an item of equipment included or excluded from the list must contact System Management and set out the reasons for the request.
2. System Management must consider the following factors in making a decision on including or excluding the equipment:
  - a. the safety of equipment, personnel and the public; and

- b. Power System Security and Power System Reliability.
3. A Market Participant or Network Operator may request that the Independent Market Operator ('IMO') reassess the inclusion of the Facility or item of their equipment on the list in accordance with the Market Rules **[MR 3.18.3]**.
4. The IMO and System Management will review the inclusion of an item of equipment in accordance with the Market Rules **[MR 3.18.3]**.

## **6. COMMUNICATIONS AND CONTACTS**

### **6.1 Participant Contacts**

1. Depending on the circumstances, System Management may communicate directly with participants or request participants to seek resolution amongst themselves.
2. Market Participants and Network Operators must provide System Management with the communication details of the operating person(s) authorised to submit Outage Plans and outage cancellations for each of their facilities.
3. System Management will maintain a record of details as advised above and make them available to Market Participants and involved parties on an as needs basis.

### **6.2 System Management Contacts**

1. System Management will from time to time advise Market Participants and Network Operators of its contact details and modes of communication, of persons who should be communicated with concerning outages.

## **7. COMMUNICATION AND PUBLICATION OF OUTAGE PLANS, SCHEDULES AND APPROVALS**

Communication of outage notices and schedules shall be made through System Management's Market Information Technology System web interface or as directed by System Management from time to time. This system shall be referred to as 'SMMITS' within this Procedure.

## **8. OUTAGE SCHEDULE**

1. The requirements for System Management to maintain an outage schedule, containing information on all Scheduled Outages are specified in the Market Rules **[MR 3.18.4]**.
2. The Outage Schedule shall contain a list of all accepted and approved outages.
3. The Outage Schedule must contain the identity of the item of equipment and the planned starting and completion times of each Outage Plan accepted by System Management, up to three years ahead.

## **9. OUTAGE PLANS - GENERAL**

1. The requirements for Market Participants to submit Outage Plans to System Management are specified in the Market Rules **[MR 3.18.4A]**.

### **9.1 Information required for outage plans**

1. Market Participants and Network Operators must submit all outage plans and requests for on-the-day and day-ahead Opportunistic Maintenance through SMMITS or as otherwise directed from time to time, and include the information specified in accordance with the Market Rules and this Procedure **[MR 3.18.6]**.
2. System Management may require the Participant to clarify or provide additional information in the outage plan.

### **9.2 Timing of submission and acknowledgment**

1. The time of lodgement of the Outage Plan shall be deemed as the time when the outage plan is transmitted to System Management and an acknowledgement of the submission has been provided.

### **9.3 Changes to an Outage Plan**

1. The requirements for Market Participants or Network Operators to confirm or revise plans to remove from service or de-rate an item of equipment are specified in the Market Rules **[MR 3.18.7, MR 3.18.8 and MR 3.18.9]**.
2. A Market Participant or Network Operator must inform System Management by telephone and must provide confirmation through SMMITS.
3. If changes in outage plans are minor and do not materially impact power system security or other outage plans, and do not change the timing of the outage, System Management may accept these changes without requiring the plan to be resubmitted.

### **9.4 Outage Plans lodged within the final six weeks**

1. The requirements applying to an Outage Plan first submitted within 6 weeks of the commencement time of the outage are specified in the Market Rules **[MR 3.18.7A]**.
2. System Management must take into account the following factors contributing to a submission made within 6 weeks of the commencement time:
  - a. the Market Participant or Network Operator has just become aware of a need to carry out relatively urgent and unforeseen maintenance on its facility; and
  - b. the nature of the work to be carried out on the facility makes it difficult to plan times accurately ahead, or the work is contingent on actions outside the control of the Market Participant or Network Operator.

3. When System Management is unable to assess an Outage Plan in the time available, System Management will require the Market Participant or Network Operator to resubmit the Outage Plan.

### **9.5 Grouping of Associated Outage Plans**

1. The requirements for Market Participants and Network Operators to coordinate outages are specified in the Market Rules **[MR 3.18.5C]**.
2. In the situation where a close interdependency exists between facilities, System Management must assess these together and may approve, review or reject the group as a whole.

### **9.6 Outages and Commissioning**

Outages that require commissioning should conform to the requirements of the Market Rules and the Power System Operation Procedure: Commissioning and Testing.

## **10. ACCEPTANCE OF OUTAGE PLANS**

### **10.1 Assessment of Outage Plans**

1. A Market Participant or Network Operator must make application for the acceptance of an outage plan via SMMITS or as otherwise directed. For the purposes of this Procedure the Proposed Outage Plan is deemed a request for acceptance.
2. System Management must use reasonable endeavours to respond to a request for a Proposed Outage Plan received from a Market Participant or Network Operator within 10 business days of receipt of a generation plan and within 20 business days of receipt of a transmission plan.
3. System Management must take all reasonable steps to expedite assessments of all submitted Outage Plans.

### **10.2 Adequacy criteria for assessing the acceptability of Outage Plans**

1. The criteria that System Management must apply when assessing the acceptability of Outage Plans are specified in the Power System Operating Procedure: Power System Security and the Market Rules **[MR 3.18.11 and MR 3.18.12]**.
2. System Management may undertake this assessment by examining one or more representative trading periods in the period covered by the Outage Plan(s).

### **10.3 Processing of Outage Plans after Evaluation**

The requirements for processing a new Outage Plan, or an Outage Plan or group of Outage Plans that System Management has previously accepted unconditionally or subject to conditions, are specified in the Market Rules **[MR 3.18.13]**.

#### **10.4 Criteria for selection of Outage Plans in event of conflicting Outage Plans**

1. System Management must adhere to the criteria for the selection and prioritisation of outage plans as specified in the Market Rules [MR 3.18.14].
2. System Management must notify all affected Market Participants and Network Operators of any decision made under this section of the Procedure via SMMITS or as otherwise directed, and will use reasonable endeavours to confirm its decision by telephone.

#### **10.5 Acceptance of non-complying Outage Plan for reasons of System Security**

1. The Market Rules provide for System Management to permit an Outage Plan to proceed even if it does not meet the criteria for acceptance as specified in the Market Rules [MR 3.18.11(e)].
2. System Management will take account of situations where the advantages to ongoing Power System Security are considered to exceed the reduced security risk that extends over the period of the outage.
3. System Management must document its estimation of the extent of the risk including the likelihood and consequences, and ongoing advantages that arise over the longer term of accepting an Outage Plan.

#### **10.6 Reassessment by IMO of System Management's decision**

The requirements for Market Participants and Network Operators to apply to the IMO to reassess a decision by System Management to not include or to remove an Outage Plan from the Outage Schedule are specified in the Market Rules [MR 3.18.15].

### **11. CHANGES TO POWER SYSTEM CONDITIONS AFFECTING SCHEDULED OUTAGES**

1. SWIS conditions can change from the forecast .Where a change in expected power system conditions occurs for a future time period after System Management has accepted an Outage Plan for an outage during that time period, such that the Outage Plan would no longer be acceptable, System Management may withdraw its acceptance of the Outage Plan and deem that that the Outage Plan is unacceptable.
2. Where System Management makes such a decision, it must inform the relevant Market Participant or Network Operator of its decision via SMMITS or as otherwise directed, and where sufficient time exists, System Management will use reasonable endeavours to confirm its decision by telephone.

### **12. PRE-ACCEPTED OUTAGES**

- 1 No earlier than 8am on the 7<sup>th</sup> day prior to the trading day in which the outage commences, a Market Participant may make a request via telephone for an



outage where this communication may be deemed as a request for Acceptance ('Pre-Accepted Outage').

- 2 Where requesting a Pre-Accepted Outage, a Market Participant must first telephone System Management, where contact details will be advised from time to time, and obtain a verbal agreement that there is a likelihood that the request can be approved.
- 3 Following the telephone call in section 12(2) or as otherwise directed, the Market Participant must provide the Proposed Outage Plan via SMMITS.
- 4 System Management will apply the approval framework in accordance with clause 13 of this Procedure to the Proposed Outage Plan. Where System Management approves the request, the telephone conversation seeking approval to submit the Pre-Accepted Outage will be deemed as satisfying the request for Acceptance.

### **13 APPROVAL OF SCHEDULED OUTAGES**

1. The requirements for a Market Participant or Network Operator to request approval of a Scheduled Outage Plan are specified in the Market Rules **[MR 3.19.1]**.
2. A Market Participant or Network Operator must make application for approval for a Scheduled Outage Plan via SMMITS or as directed.
3. At the time the request is made the Market Participant or Network Operators must also advise System Management of any change to the information contained in the Outage Plan.
4. The criteria that System Management must adhere to when assessing whether to grant approval of Scheduled Outage requests are specified in the Market Rules **[MR 3.19.6]**.
5. Before approving a Scheduled Outage request, System Management may at its sole discretion require a Market Participant's or Network Operator's authorised personnel included in the relevant contact list to make a written declaration that the unit is available prior to the outage commencing. System Management will reject any Scheduled Outage request where the relevant Market Participant or Network Operator does not comply with such a request.
6. Notification by System Management of either an approval or rejection of a Scheduled Outage must be made via SMMITS or as otherwise directed, in accordance with the Market Rules **[MR 3.19.4]**.

### **14 APPROVAL OF DAY-AHEAD OPPORTUNISTIC MAINTENANCE ('DAOM') REQUESTS**

1. The requirements for a Market Participant or Network Operator to request approval of a day-ahead Opportunistic Maintenance Outage are specified in the Market Rules **[MR 3.19.2(a)]**.

2. A Market Participant or Network Operator must make application for the approval of a day-ahead Opportunistic Maintenance outage request by telephone and via SMMITS, or as otherwise directed. System Management will advise its contact details from time to time.
3. The criteria that System Management must adhere to when assessing whether to grant approval of a day-ahead Opportunistic Maintenance Outage requests are specified in the Market Rules **[MR 3.19.6]**.
4. The request for approval of a day-ahead Opportunistic Maintenance Outage must be received by System Management no later than 8:00am of the day that the request for approval is due.
5. System Management must either approve or reject the day-ahead Opportunistic Maintenance Outage and inform the Market Participant and Network Operator of its decision before 8:00am of the following day, ie. by 8:00am of the day immediately prior to the day the outage commences. This decision must be made before 8:00am to enable System Management to conform to the Market Rules **[MR 7.3.4]**, whereby System Management is required to send a schedule of all outages for each Registered Facility which System Management is aware of to the IMO between 8:00am and 8:30am on the Scheduling day prior to the Trading Day.
6. System Management will not approve a request for a day-ahead Opportunistic Maintenance request after 12pm on the Scheduling Day.
7. Before approving a day-ahead Opportunistic Maintenance request System Management may at its sole discretion require a Market Participant's or Network Operator's authorised personnel included in the relevant contact list to make a written declaration that the unit is available prior to the outage commencing in accordance with the Market Rules **[MR 3.19.3A(c)]**. System Management will reject any day-ahead Opportunistic Maintenance request where the relevant Market Participant or Network Operator does not comply with such a request.
8. System Management must provide confirmation of its approval or rejection via SMMITS or as otherwise directed, as soon as practicable. The relevant Market Participant or Network Operator may confirm via telephone the decision of System Management.
9. System Management must not approve a day-ahead Opportunistic Maintenance request which will require any change in scheduled energy or ancillary services. This means a Non-EGC generator cannot have a day-ahead Opportunistic Maintenance request approved that would result in the generator being unable to comply with its Resource Plan.

## **15 APPROVAL OF ON-THE-DAY OPPORTUNISTIC MAINTENANCE ('ODOM') REQUESTS**

1. The requirements for a Market Participant or Network Operator to request approval of an on-the-day Opportunistic Maintenance Outage are specified in the Market Rules **[MR 3.19.2(b)]**.

2. A Market Participant or Network Operator must make application for the approval of an on-the-day Opportunistic Maintenance outage request by telephone and via SMMITS, or as otherwise directed. System Management will advise its contact details from time to time.
3. The criteria that System Management must adhere to when assessing whether to grant approval of an on-the-day Opportunistic Maintenance Outage requests are specified in the Market Rules **[MR 3.19.6]**.
4. Before approving an on-the-day Opportunistic Maintenance request System Management may at its sole discretion require a Market Participant's or Network Operator's authorised personnel included in the relevant contact list to make a written declaration that the unit is available prior to the outage commencing in accordance with the Market Rules **[MR 3.19.3A(c)]**. System Management will reject any on-the-day Opportunistic Maintenance request where the relevant Market Participant or Network Operator does not comply with such a request.
5. System Management will advise a Market Participant or Network Operator of the decision to approve or reject a request for an on-the-day Opportunistic Maintenance outage by telephone or as otherwise directed.
6. Subsequently System Management shall log an approval and note a written notation reflecting the outcome.
7. System Management must not approve an on-the-day Opportunistic Maintenance request which will require any change in scheduled energy or ancillary services. This means a Non-EGC generator cannot have an on-the-day Opportunistic Maintenance request approved that would result in the generator being unable to comply with its Resource Plan.

## **16. COMPLIANCE WITH SYSTEM MANAGEMENT'S DECISION**

The requirements for Market Participants and Network Operators to comply with System Management's decision to reject an outage are specified in the Market Rules **[MR 3.19.8]**.

## **17. OUTAGE RECALLS**

1. When a situation arises where the power system security is at risk and the cancellation of outages could potentially alleviate the situation, System Management must consider all current Planned Outages and outages in progress and assess whether rejecting one or more Planned Outages or recalling equipment will assist the situation.
2. If in the view of System Management there is benefit in this action, it may contact the Market Participant or Network Operator and discuss the impact of rejecting the outage or recalling the equipment to service.
3. The Market Participant or Network Operator must cooperate with System Management and determine when the equipment can be returned to service and the best way of proceeding with such action. The Market Participant or

Network Operator must give this information to System Management as soon as practical.

4. Market Participants and Network Operators must comply with the direction of System Management.

## **18. SUBMISSION OF FORCED OUTAGES AND CONSEQUENTIAL OUTAGES**

1. The requirements for Forced or Consequential Outages are specified in the Market Rules **[MR 3.21]**.
2. Where equipment is unavailable or de-rated, the relevant Market Participant or Network Operator experiencing the unavailability or de-rating should communicate the nature of that unavailability or de-rating by telephone to System Management as soon as practicable, using contact details that are advised from time to time **[MR 3.21.7]**.
3. The relevant Market Participant or Network Operator should regularly inform System Management of the equipment's status and likely return to service time.
4. The Market Participant or Network Operator must provide a full and final description of the outage to System Management, via SMMITS or as otherwise directed, including whether the equipment has suffered a Forced Outage or a Consequential Outage, by midnight on the date specified in the Market Rules **[MR 3.21.7]**.

## **19 FORCED OUTAGE AND CONSEQUENTIAL OUTAGE INFORMATION FOR IMO**

1. System Management must record the information provided by a Market Participant or Network Operator relating to each Forced Outage and Consequential Outage in accordance with the Market Rules **[MR 3.21]**.
2. System Management will communicate this information and any additional information relevant to the event to the IMO in accordance with the timelines specified in the Market Rules **[MR 7.13.1A and MR 7.3.4]**.
3. System Management will only transmit to the IMO Forced Outage and Consequential Outage information it has been advised by a Market Participant or Network Operator in accordance with the Market Rules.