



WEM Procedure: Outage Intention Plans

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1.0	6 February 2025	WEM Procedure developed and maintained in accordance with clause 3.19.11 of the WEM Rules

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IMPORTANT NOTICE - EXPLANATORY NOTES

Disclaimer

Explanatory notes included in this document as shaded in-line text are provided for explanatory purposes only to assist with comprehension and readability. The information contained in these explanatory notes does not constitute legal or business advice and should not be relied on as a substitute for obtaining detailed advice about the *Electricity Industry Act 2004 (WA)*, the WEM Rules, or any other applicable laws, procedures or policies. AEMO has made reasonable efforts to ensure the quality of the information, but cannot guarantee its accuracy or completeness.

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1. Introduction

1.1. Purpose and scope

- 1.1.1. This WEM Procedure: Outage Intention Plans (Procedure) is made in accordance with AEMO's functions under clause 2.1A.2(h) of the Wholesale Electricity Market Rules (WEM Rules).
- 1.1.2. The *Electricity Industry Act 2004* (WA), the WEM Regulations and the WEM Rules prevail over this Procedure to the extent of any inconsistency.
- 1.1.3. In this Procedure, where obligations are conferred on a Rule Participant, that Rule Participant must comply with the relevant obligations in accordance with clauses 2.9.7A, 2.9.7D or 2.9.8 of the WEM Rules, as applicable.
- 1.1.4. The purpose of this Procedure under clause 3.19.11 of the WEM Rules is to:
- specify the information that must be included in an Outage Intention Plan;
 - set out the process AEMO will follow in carrying out an Interim Annual Consolidated Outage Intention Plan and Final Annual Consolidated Outage Intention Plan, including the methodology and timetable to develop the Interim Annual Consolidated Outage Intention Plan and Final Annual Consolidated Outage Intention Plan; and
 - set out the process and requirements for the revision and resubmission of Outage Intention Plans under clause 3.19.9.
- 1.1.5. Appendix A of this Procedure outlines the head of power clauses that this Procedure is made under, as well as other obligations in the WEM Rules covered by this Procedure.

1.2. Definitions

- 1.2.1. Terms defined in the *Electricity Industry Act 2004* (WA), the WEM Regulations and the WEM Rules have the same meanings in this Procedure unless the context requires otherwise.
- 1.2.2. The following definitions apply in this Procedure unless the context requires otherwise.

Table 1 Definitions

Term	Definition
Critical Equipment	Equipment or systems where malfunction or failure would likely result in a threat to system security.
High Impact	Refer to Paragraphs 3.1.3 and 3.1.4.
Impacted Facilities	A Facility that will be constrained completely due to a Network Outage or a Facility that is constrained pre-contingent due to a Network Outage (also known as a generation cap). Also refer to WEM Procedure: Outages.
Intended Outage	The Outages a Market Participant or Network Operator (as applicable) expects to occur for a Facility during the calendar year.
Interval	A Dispatch Interval under the WEM Rules.
Reserves	In relation to generation capacity, how much capacity is available to maintain system security.

1.3. Interpretation

1.3.1. The following principles of interpretation apply in this Procedure unless the context requires otherwise.

- (a) Clauses 1.3 to 1.5 of the WEM Rules apply in this Procedure.
- (b) References to time are references to Australian Western Standard Time.
- (c) Terms that are capitalised, but not defined in this Procedure, have the meaning given in the WEM Rules.
- (d) A reference to the WEM Rules or WEM Procedures includes any associated forms required or contemplated by the WEM Rules or WEM Procedures.
- (e) Words expressed in the singular include the plural and vice versa.
- (f) A reference to a paragraph refers to a paragraph of this Procedure.
- (g) A reference to an appendix refers to an appendix of this Procedure.
- (h) A reference to a clause refers to a clause or section of the WEM Rules.
- (i) References to WEM Rules in this Procedure in bold and square brackets **[Clause XXX]** are included for convenience only, and do not form part of this Procedure.
- (j) Text located in boxes and headed as Explanatory Note X in this Procedure is included by way of explanation only and does not form part of this Procedure. The Procedure prevails to the extent of any inconsistency with the explanatory notes contained within it.
- (k) The body of this Procedure prevails to the extent of any inconsistency with the figures, diagrams, appendices, schedules, annexures or attachments contained within this document.

1.3.2. These Procedures must be read in conjunction with the WEM Rules relevant to this WEM Procedure, noting that in many cases the WEM Rules provide descriptive processes, timeframes and other obligations which are not duplicated in AEMO's WEM Procedures.

1.4. Related documents

1.4.1. The documents in Table 2 are associated with this Procedure.

Table 2 Related documents

Reference	Title	Location
WEMS User Guide	AEMO WEMS MPI User Guide	WEM Website
WEM Procedure	WEM Procedure: Outages	WEM Website

2. General Information

2.1.1. Information provided in an Outage Intention Plan will be published by AEMO in the Interim Annual Consolidated Outage Intention Plan and the Final Annual Consolidated Outage Intention Plan.

- 2.1.2. Increased transparency of Intended Outages provides potential benefits that include the possibility of coordinating Network Operator and Market Participant Outages, as well as the potential avoidance of Outage conflicts between Market Participants.
- 2.1.3. AEMO will publish a timeline of key dates under the Outage Intention Plan process on the WEM Website.

E[A] Explanatory note – Rationale for excluding timelines specified under the WEM Rules from this WEM Procedure

Clauses 3.19.1 to 3.19.11 include reference to several timeframes in relation to developing, submitting, and publishing documents under the Outage Intention Plan process.

AEMO does not replicate WEM Rules within its WEM Procedures as doing so can lead to conflicts between WEM Procedures and WEM Rules as the WEM Rules continue to evolve. Such conflicts can in-turn lead to confusion and the potential for unintentional non-compliance, as well as increasing the volume of WEM Procedure changes.

To assist Rule Participants in understanding timelines under Outage Intention Plan process, paragraph 2.1.3 instead obliges AEMO to publish a timeline on the WEM Website. The timeline will be published on the webpage that includes AEMO's Interim Annual Consolidated Outage Intention Plan and the Final Annual Consolidated Outage Intention Plan for ease of locating.

3. Submitting an Outage Intention Plan

3.1. Information that must be included in an Outage Intention Plan

3.1.1. An Outage Intention Plan submitted to AEMO by a Market Participant must include the following information:

- (a) Calendar Year.
- (b) Facility code.
- (c) Start date and time of the Interval of each Intended Outage.
- (d) End date and time of the Interval of each Intended Outage.
- (e) Remaining Available Capacity of each Intended Outage.
- (f) If the Intended Outage will be High Impact.
- (g) Description of each Intended Outage.

3.1.2. An Outage Intention Plan submitted to AEMO by a Network Operator must include the following information:

- (a) Calendar Year.
- (b) Start date and time of the Interval of each Intended Outage.
- (c) End date and time of the Interval of each Intended Outage.
- (d) Equipment codes for each Intended Outage.
- (e) Description of each Intended Outage.
- (f) Facility codes of Impacted Facilities for each Intended Outage, where this has been assessed by the Network Operator.
- (g) If the Intended Outage will be High Impact, where this has been assessed by the Network Operator.

3.1.3. The criteria for Market Participant High Impact Intended Outages are as follows and generally lead into a Commissioning Test Plan, post outage:

- (a) Major overhaul.
- (b) Replacement or repair of Critical Equipment.
- (c) Maintenance requiring disassembly of Critical Equipment.
- (d) Replacement of control system (including like-for-like replacement).
- (e) Upgrade of control system programs.
- (f) Any maintenance that adjusts capacity.

3.1.4. The criteria for Network Operator High Impact Intended Outages are as follows:

- (a) Constraining a Facility's maximum generation output by more than 50% under system normal conditions.
- (b) Significant Load on a radial connection (peak Loads).
- (c) Significant generation on a radial connection.
- (d) Loss of a System Restart Service.
- (e) Islanding operation.
- (f) Busbar contingency is credible.
- (g) The Constraint Equation for the Intended Outage is likely to significantly change system normal dispatch.
- (h) Where the Network Operator considers it may invoke NCESS units for regional support.

E[B] Explanatory note – Examples of Network Operator High Impact Outages

Examples of Network Operator High Impact Intended Outages include, but are not limited to:

- In relation to paragraph 3.1.4(a), busbar outage on Shotts 330kV that would disconnect COLLIE_G1 or a 132kV line outage at Mungarra that would constrain off ALINTA_WWF due to lack of anti-islanding.
- In relation to paragraph 3.1.4(b), more than 160MW of contingency lower requirement during the midday trough, or more than 500MW of contingency lower requirement during evening peak.
- In relation to paragraph 3.1.4(c), More than 330MW of gross generation on a radial connection or an outage of NBT T2 which causes NEWGEN_KWINANA_CCG1, YANDIN_WF1 and WARRADARGE_WF1 generation loss on a single contingency of MARNET operation.
- In relation to paragraph 3.1.4(e), eastern Goldfields or North Country region island operation.
- In relation to paragraph 3.1.4(g), a KW-NT 91 Outage that requires minimum dispatch of more than 300MW in North Metro and Country during the evening peak, or a MU-NT 91 outage the restricting generation at Muja and Bluewaters to maintain N-1 security on the 132kV network at Muja.
- In relation to paragraph 3.1.4(h), a TST-TS 81 or ENB-TS 81 line outage that would require MGA NCESS units to run for voltage stability purposes.

3.2. Submitting an Outage Intention Plan

- 3.2.1. A Market Participant must submit an Outage Intention Plan through the Market Participant Outage Intention Plan User Interface (OIPUI) which can be accessed through the Wholesale Electricity Market System (WEMS) Market Participant Interface (MPI). The OIPUI will provide functionality for a Market Participant to view and maintain their Outage Intention Plans.
- 3.2.2. The OIPUI can be accessed through a menu item under Outages in the WEMS MPI.
- 3.2.3. A Network Operator must submit the Outage Intention Plan through the secure Application Programming Interface (API) between AEMO and the Network Operator. Please note that security measures of the API include blocking submissions by unauthorised users and rejection of submissions made by users who are not Network Operator employees.
- 3.2.4. Following receipt of an Outage Intention Plan by a Market Participant or Network Operator in accordance with the WEM Rules and this Procedure, AEMO will confirm receipt of the Outage Intention Plan by email to the relevant Market Participant or Network Operator.

4. Developing and Publishing an Interim Annual Consolidated Outage Intention Plan

- 4.1.1. The Interim Annual Consolidated Outage Intention Plan will be published on the WEM Website and will be presented with a gantt chart showing reserves, including potential lack of reserves, as well as scheduling recommendations for Rule Participants to potentially adjust the timing of certain concurrent Intended Outages to ensure sufficient reserves for system security are available.
- 4.1.2. Recommendations under paragraph 4.1.1 will be based on anticipated reserve margins during the period specified in the Outage Intention Plan, taking into account forecast generation, forecast load, and details of Intended Outages as specified in Outage Intention Plans.
- 4.1.3. The Interim Annual Consolidated Outage Intention Plan is not binding on Rule Participants.

5. Revisions, resubmissions and withdrawals of Outage Intention Plans

- 5.1.1. A Market Participant may revise, resubmit or withdraw an Outage Intention Plan through WEMS MPI at any time, and as many times as required, prior to the closure periods as specified under the WEM Rules and published by AEMO under paragraph 2.1.3.
- 5.1.2. A Network Operator may revise or resubmit an Outage Intention Plan through the secure API between AEMO and the Network Operator at any time, and as many times as required, prior to the closure periods as specified under the WEM Rules and published by AEMO under paragraph 2.1.3.

6. Publishing a Final Annual Consolidated Outage Intention Plan

- 6.1.1. The Final Annual Consolidated Outage Intention Plan will consider revisions, resubmissions and withdrawals of Outage Intention Plans submitted by Rule Participants by the timeframes specified under the WEM Rules and published by AEMO under paragraph 2.1.3.
- 6.1.2. The Final Annual Consolidated Outage Intention Plan will be published on the WEM Website and will be presented with a gantt chart showing reserves, including potential lack of reserves as well as any further scheduling recommendations to Rule Participants for the next calendar year to plan Intended Outages.
- 6.1.3. Recommendations under paragraph 6.1.2 will be based on anticipated reserve margins during the period specified in the Outage Intention Plan, taking into account forecast generation, forecast load, and details of Intended Outages as specified in Outage Intention Plans.
- 6.1.4. The Final Annual Consolidated Outage Intention Plan is not binding on Rule Participants, and Rule Participants are not required to adjust the timing of Outage submissions based on AEMO's recommendations in the Final Annual Consolidated Outage Intention Plan.

Appendix A. Relevant clauses of the WEM Rules

Table 3 details:

- (a) the head of power clauses in the WEM Rules under which the Procedure has been developed; and
- (b) each clause in the WEM Rules requiring an obligation, process or requirement be documented in a WEM Procedure, where the obligation, process or requirement has been documented in this Procedure.

Table 3 Relevant clauses of the WEM Rules

Clause
3.19.1(a)
3.19.1(b)
3.19.2
3.19.3
3.19.4
3.19.5
3.19.6
3.19.7
3.19.8
3.19.9
3.19.10
3.19.11