POWER SYSTEM OPERATION PROCEDURE: MEDIUM TERM PROJECTED ASSESSMENT OF SYSTEM ADEQUACY

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VERSION RELEASE HISTORY

Version	Effective Date	Summary of Changes
1	21 September 2006	Power System Operation Procedure (Market Procedure) for Commissioning and Testing
2	17 July 2009	System Management amended changes to the procedure resulting from Procedure Change Report PPCL0009
3	23 June 2011	System Management amended changes to the procedure resulting from Procedure Change Report PPCL0016
4	Balancing Market Commencement Day	System Management replacement of the procedure resulting from Procedure Change Report PPCL0023
5	1 March 2014	System Management amended changes to the procedure resulting from Procedure Change Proposal PPCL 0025
6.0	dd MMM YYYY	Changes resulting from Procedure Change Proposal AEPC_2018_XX

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1 PROCEDURE OVERVIEW

1.1 Relationship with the Wholesale Electricity Market Rules

1.1.1 This Power System Operation Procedure (PSOP): Medium Term Projected Assessment of System Adequacy (Procedure) has been developed in accordance with clauses 3.16 of the Wholesale Electricity Market Rules (WEM Rules).

1.1.2 References to particular WEM Rules within the Procedure in bold and square brackets **[Clause XX]** are current as at 13 October 2017. These references are included for convenience only and are not part of this Procedure.

1.2 Interpretation

In this Procedure:

(a) terms that are capitalised but not defined in this Procedure have the meaning given in the WEM Rules;

(b) to the extent that this Procedure is contrary or inconsistent with the WEM Rules, the WEM Rules shall prevail to the extent of the inconsistency;

(c) a reference to the WEM Rules or Market Procedures includes any associated forms required or contemplated by the WEM Rules or Market Procedures; and

(d) words expressed in the singular include the plural or vice versa.

1.2.2 In addition, the following defined term has the meaning given.

Table 1 Defined Terms

Term	Definition
Planning Horizon	Three years, starting from the month following the month in which the Medium Term PASA study is performed **[Clause 3.16.2].**
Reserve Margin	The value identified in step 4.1.2.

1.3 Purpose and application of this Procedure

1.3.1 The purpose of this Procedure is to detail the processes to be followed by:

(a) AEMO, Market Participants and Network Operators when conducting a Medium Term PASA study **[Clause 3.16.10]**; and

(b) Market Participants and Network Operators in providing information or clarifications AEMO requests **[Clause 3.16.7 and Clause 3.16.8A]**.

1.4 Associated documents

1.4.1 The following documents in Table 2 (available on the Market Web Site) provide background information to this Procedure:

Table 2 Background Procedures

Reference	Title	Location
SO_OP_WA_3804	PSOP: Facility Outages	Market Web Site
SO_OP_WA_3808	PSOP: Power System Security	Market Web Site
SO_OP_WA_3809	PSOP: Short Term PASA	Market Web Site

2 TIMETABLE

2.1 Timing requirements

2.1.1 The timing requirements that AEMO must follow when completing and reviewing a Medium Term PASA study and AEMO's obligation to publish the relevant information as defined in the WEM Rules **[Clause 3.16.1, Clause 3.16.2 and Clause 3.16.9]**.

3 INFORMATION REQUIREMENTS

3.1 General requirements

3.1.1 AEMO may direct Rule Participants from time to time, to provide the information specified in the WEM Rules, in a manner and timeframe specified by AEMO **[Clause 3.16.4]**.

3.1.2 A Rule Participant must provide the information requested in step 3.1.1 within the timeframe specified by AEMO **[Clause 3.16.7]**.

3.1.3 AEMO shall review information provided by Rule Participants, and where necessary, seek additional information or clarifications. AEMO must specify a timeframe for this information to be provided **[Clause 3.16.8]**.

3.1.4 Rule Participants must provide any additional information or clarifications requested by AEMO in step 3.1.3 in the timeframe specified by AEMO **[Clause 3.16.8A]**.

3.2 Allowable use of AEMO data

3.2.1 AEMO may utilise its own information in certain circumstances in substitution of information submitted by Rule Participants **[Clause 3.16.6]**, and shall document reasons for doing so in the MT PASA report **[Clause 3.16.9(i)]**.

3.2.2 In addition to information provided by a Rule Participant, AEMO may use information that it develops in accordance with clause 3.16.5 of the WEM Rules, and any other information AEMO considers necessary.

3.3 Submission of Revised Data

3.3.1 When a Rule Participant becomes aware of circumstances relating to material changes to information provided in accordance with step 3.1.1, Rule Participants must submit revised data in a timeframe specified by AEMO **[Clause 3.16.8A]**.

4 MEDIUM TERM RESERVE MARGIN

4.1 General

4.1.1 AEMO must assess the Reserve Margin for the Medium Term PASA Planning Horizon.

4.1.2 The Reserve Margin is excess capacity as detailed in step 4.2.1.

4.1.3 AEMO must indicate in its results those periods within the MT PASA Planning

Horizon where the Reserve Margin is less than zero.

4.2 Assessment of Medium Term Reserve Margin

4.2.1 AEMO must estimate the applicable Reserve Margin by forecasting:

(a) The capacity of Scheduled Generators, Non-Scheduled Generators and Demand Side Programmes after allowing for outages that AEMO has knowledge of or has been informed of, less

(b) The mean plus two standard deviation system peak load forecast, less

(c) The effects of any generation being constrained due to insufficient transmission capacity remaining in service, less

(d) An allowance for that quantity of generation capacity required to operate as an Ancillary Service, to maintain the frequency standards specified in the PSOP: Power System Security, less

(e) An allowance for Ready Reserve, less

(f) An allowance for the availability of Non-Scheduled Generation and Demand Side Programmes.