

# Electricity Industry (Wholesale Electricity Market) Regulations 2004

## Wholesale Electricity Market Amendment (Tranche 6 Amendments) Rules 2022

### Commencement

- The amending rules set out in Schedule A come into operation at 8:00 AM (WST) on 1 January 2023.
- The amending rules set out in Schedule B come into operation at 8:00 AM (WST) on 1 February 2023.
- The amending rules set out in Schedule C come into operation at 8:00 AM (WST) on 1 March 2023.
- The amending rules set out in Schedule D come into operation at 8:00 AM (WST) on 17 April 2023.
- The amending rules set out in Schedule E come into operation at a time specified by the Minister in a notice published in the Gazette. Different days may be specified for different provisions.

Where there are market rules made by the Minister for Energy in accordance with regulation 7(5) of the *Electricity Industry (Wholesale Electricity Market) Regulations 2004* prior to the date this Instrument is made which are specified to come into operation on the same day as the amending rules set out in this Instrument, the amending rules set out in this Instrument come into operation immediately after the commencement of those market rules.

### Schedule A

#### 1. Section 1.19A amended

- 1.1 Section 1.19A.1 is amended by inserting the word ', the' immediately after the words 'Economic Regulation Authority'.

#### 2. Section 1.36C amended

- 2.1 The heading for section 1.36C '**General Transitional Provisions – Staging of Tranches 2 and 3 Amendments**' is deleted and replaced with the following:

#### **General Transitional Provisions – Staging of Amendments**

- 2.2 Clause 1.36C.1 is deleted and replaced with the following:

1.36C.1. In this section 1.36C:

**Amending Rules Commencement Day:** Means a date, other than the New WEM Commencement Day, by notice published in the Government Gazette, that a Specific Amending Rule commences.

**Commenced Amending Rule:** Means a Specific Amending Rule that has commenced on an Amending Rules Commencement Day.

**Post-Amended Rules:** Means the WEM Rules as in force immediately after the most recent Amending Rules Commencement Day.

**Pre-Amended Rules:** Means the WEM Rules as in force immediately before the most recent Amending Rules Commencement Day.

**Specific Amending Rule:** Means an Amending Rule made by the Minister under regulation 7(5) of the WEM Regulations (at any time) by a notice published in the Government Gazette as part of the program of work for the Wholesale Electricity Market and Constrained Network Access Reform but excludes an Amending Rule which commences on the New WEM Commencement Day.

**WEM Participant:** Means the Coordinator, a Rule Participant and the Economic Regulation Authority.

2.3 Clause 1.36C.2 is amended by:

- (a) deleting the words 'a Tranches 2 and 3' and replacing them with the word 'an'; and
- (b) deleting the words 'Tranches 2 and 3'.

2.4 Clause 1.36C.3 is amended by:

- (a) deleting the words 'a Tranches 2 and 3' and replacing them with the word 'an'; and
- (b) deleting the words 'Tranches 2 and 3'.

2.5 Clause 1.36C.4 is amended by:

- (a) deleting the words 'a Tranches 2 and 3' and replacing them with the word 'an'; and
- (b) deleting the words 'Tranches 2 and 3' in each place where they occur.

2.6 Clause 1.36C.5 is amended by:

- (a) deleting the words 'a Tranches 2 and 3' and replacing them with the word 'an'; and
- (b) deleting the words 'Tranches 2 and 3'.

2.7 Clause 1.36C.6 is amended by deleting the words 'Tranches 2 and 3' in each place where they occur.

2.8 Clause 1.36C.7 is amended by deleting the words 'Tranches 2 and 3' in each place where they occur.

2.9 Delete clause 1.36C.8.

**3. Section 1.41 amended**

3.1 Clause 1.41.2(a) is amended by deleting the words 'requirements of the Template Generator Monitoring Plan' and replacing them with the words 'Generator Monitoring Plan Requirements'.

3.2 Clause 1.41.2(b) is amended by deleting the words 'requirements of the Template Generator Monitoring Plan' and replacing them with the words 'Generator Monitoring Plan Requirements'.

3.3 Clause 1.41.12(a) is amended by deleting the words 'Template Generator Monitoring Plan' and replacing them with the words 'Generator Monitoring Plan Requirements'.

3.4 Clause 1.41.12(h) is amended by deleting the words 'Template Generator Monitoring Plan' and replacing them with the words 'Generator Monitoring Plan Requirements'.

3.5 Clause 1.41.14(c) is amended by deleting the words 'Template Generator Monitoring Plan' and replacing them with the words 'Generator Monitoring Plan Requirements'.

**4. Section 1.45 amended**

4.1 Clause 1.45.6A is deleted and replaced with the following:

1.45.6A. The Facility Classes for the purposes of clause 1.45.6 are:

- (a) a Scheduled Facility;
- (b) a Semi-Scheduled Facility;
- (c) a Non-Scheduled Facility; and
- (d) a Demand Side Programme.

**5. Section 1.47 amended**

5.1 Clause 1.47.2(b) is amended by deleting the words 'Registered Facility' and replacing them with the words 'Scheduled Generator, Non-Scheduled Generator or Demand Side Programme'.

5.2 Clause 1.47.2(c) is amended by:

- (a) deleting the words 'clause 1.47.4' and replacing them with the words 'clauses 1.47.4 and 1.47.8'; and
- (b) deleting the word 'and' after the semi-colon at the end of the clause.

5.3 Clause 1.47.2(d) is amended by:

- (a) deleting the words 'clause 1.47.4' and replacing them with the words 'clauses 1.47.4 and 1.47.8'; and
- (b) deleting the full stop at the end of the clause and replacing it with the word '; and'.

5.4 Insert the following new clause 1.47.2(e):

- (e) a Facility registered as an Interruptible Load under the Pre-Amended Rules is deemed to be a Non-Dispatchable Load and no longer a Registered Facility under the Post-Amended Rules.

5.5 Clause 1.47.3 is deleted and replaced with the following:

1.47.3. For the purposes of clause 1.47.2(b), the table below sets out the Facility Class that is deemed to apply to a Registered Facility.

<b>Facility Class as at the last Trading Interval immediately preceding the New WEM Commencement Day</b>	<b>Facility Class from the New WEM Commencement Day</b>
Scheduled Generator	Scheduled Facility
Non-Scheduled Generator with a System Size below 10 MW	Non-Scheduled Facility
Non-Scheduled Generator with a System Size at or above 10 MW	Semi-Scheduled Facility
Demand Side Programme	Demand Side Programme

5.6 Clause 1.47.7 is amended by deleting the words 'the New WEM Commencement Day' and replacing them with the words '1 October 2023' in each place where they occur.

5.7 Clause 1.47.8 is amended by deleting the words 'the New WEM Commencement Day' and replacing them with the words '1 October 2023' in each place where they occur.

5.8 Insert the following new clause 1.47.8A:

1.47.8A. A Market Participant or Ancillary Service Provider may apply to AEMO to:

- (a) register a Facility as an Interruptible Load (as defined under the Post-Amended Rules) with an intended effective registration date on or after the New WEM Commencement Day;
- (b) associate Non-Dispatchable Loads (as defined under the Post-Amended Rules) with the Interruptible Load; and
- (c) accredit the Interruptible Load to provide Contingency Reserve Raise, prior to the New WEM Commencement Day, with an intended effective date on or after the New WEM Commencement Day.

- 5.9 Clause 1.47.12 is amended by deleting the words 'Before the New WEM Commencement Day' and replacing them with the words 'By 1 June 2023'.

**6. Section 1.48 amended**

- 6.1 Clause 1.48.3 is amended by inserting the words 'prior to the New WEM Commencement Day' immediately after the words 'clause 1.48.2'.
- 6.2 Clause 1.48.5 is amended by deleting the words 'at least three months before the New WEM Commencement Day' and replacing them with the words 'before 1 July 2023'.

**7. Section 1.49 amended**

- 7.1 Clause 1.49.8 is amended by deleting the word 'Load' and replacing it with the words 'Non-Dispatchable Load'.
- 7.2 Clause 1.49.9(b) is deleted and replaced with the following:
- (b) ensure the quantity offered for each Frequency Co-optimised Essential System Service is the largest quantity of the Frequency Co-optimised Essential System Service that the Market Participant reasonably expects could be provided by its Facility in the Dispatch Interval, up to the maximum quantity the Facility is accredited for.

**8. Section 1.52 amended**

- 8.1 Clause 1.52.1(b) is amended by deleting the words 'Tranches 2 and 3'.

**9. Section 1.54A amended**

- 9.1 Clause 1.54A.1 is amended by inserting the words 'Rule Participant or' immediately after the words 'Standing Data in respect to a'.
- 9.2 Clause 1.54A.2(a) is amended by inserting the words 'Rule Participant or' immediately after the words 'AEMO for a'.

**10. Section 1.55 added**

- 10.1 Insert the following new section 1.55:

**1.55. General Transitional Provisions – Operational Matters**

- 1.55.1. In this section 1.55:

**Commenced Amending Rule:** Means a Specific Amending Rule that has commenced on the New WEM Commencement Day.

**New WEM Commencement Month:** Means the Trading Month in which the New WEM Commencement Day falls.

**Post-Amended Rules:** Means the WEM Rules as in force immediately after the New WEM Commencement Day.

**Pre-Amended Rules:** Means the WEM Rules as in force immediately before the New WEM Commencement Day.

**Specific Amending Rule:** Means an Amending Rule made by the Minister under regulation 7(5) of the WEM Regulations (whether made before or after the date this section 1.55 commenced) by a notice published in the Government Gazette as part of the program of work for the Wholesale Electricity Market and Constrained Network Access Reform.

- 1.55.2. Before 8:00 AM on the New WEM Commencement Day, notwithstanding that the Pre-Amended Rules continue to apply, each Rule Participant must, subject to clause 1.55.8, perform all obligations imposed on that Rule Participant under the Post-Amended Rules, in relation to the New WEM Commencement Day and subsequent Trading Days, that, if the Post-Amended Rules were in force, the Rule Participant would have been required to perform under the Post-Amended Rules. This includes, but is not limited to, obligations relating to:
- (a) operation of the Real-Time Market under Chapter 7, including scheduling and dispatch of Market Services and Non-Co-optimised Essential System Services;
  - (b) PASA assessments and Outages under Chapter 3;
  - (c) operation of the STEM under Chapter 6;
  - (d) administration of the market under Chapter 2;
  - (e) administration of the Reserve Capacity Mechanism under Chapter 4; and
  - (f) settlement under Chapter 9.
- 1.55.3. If before 8:00 AM on the New WEM Commencement Day, notwithstanding that the Pre-Amended Rules continue to apply, a Rule Participant performs an obligation under the Post-Amended Rules under clause 1.55.2, then to the extent that the obligation is performed, the Rule Participant is not required to perform any equivalent obligation under the Pre-Amended Rules to the extent that these obligations relate to the New WEM Commencement Day or subsequent Trading Days.
- 1.55.4. Before 8:00 AM on the New WEM Commencement Day, notwithstanding that the Pre-Amended Rules continue to apply, a Rule Participant may, subject to clause 1.55.8, perform any of the discretionary actions that the Rule Participant is permitted to perform under the Post-Amended Rules, in relation to the New WEM Commencement Month and subsequent Trading Months, that, if the Post-Amended Rules were in force, the Rule Participant would be permitted to perform under the Post-Amended Rules.

- 1.55.5. If before 8:00 AM on the New WEM Commencement Day, notwithstanding that the Pre-Amended Rules continue to apply, a Rule Participant is required to perform an obligation that relates to the New WEM Commencement Day or any subsequent Trading Days that it will not be required to perform under the Post-Amended Rules, the Rule Participant is not required to perform the obligation to the extent that:
- (a) it relates to the New WEM Commencement Day or any subsequent Trading Days; and
  - (b) to the extent that the obligation will not apply under the Post-Amended Rules.
- 1.55.6. After 8:00 AM on the New WEM Commencement Day, notwithstanding that the Post-Amended Rules apply, each Rule Participant must, subject to clause 1.55.8, perform all obligations imposed on that Rule Participant under the Pre-Amended Rules, arising in relation to each Trading Interval (or part of a Trading Interval) in a Trading Day, each Trading Day (or part of a Trading Day) or each Trading Month (or part of a Trading Month) up to but excluding the New WEM Commencement Day, that, if the Pre-Amended Rules were in force, the Rule Participant would have been required to perform under the Pre-Amended Rules. This includes, but is not limited to, obligations relating to, or in connection with:
- (a) administration of the market under Chapter 2, including compliance monitoring and enforcement;
  - (b) dispatch under Chapter 7; and
  - (c) settlement under Chapter 9.
- 1.55.7. From the New WEM Commencement Day, notwithstanding that the Post-Amended Rules apply, each Rule Participant may, subject to clause 1.55.8, perform any of the discretionary actions that the Rule Participant is permitted to perform under the Pre-Amended Rules, in relation to each Trading Month up to but excluding the New WEM Commencement Month, that, if the Pre-Amended Rules were in force, the Rule Participant would have been permitted to perform under the Pre-Amended Rules.
- 1.55.8. Where a Rule Participant:
- (a) intends to perform an obligation under the Post-Amended Rules pursuant to clause 1.55.4 or the Pre-Amended Rules pursuant to clause 1.55.7; or
  - (b) is required by clauses 1.55.2 or 1.55.6 or sections 1.56 or 1.57 to perform an obligation under the Pre-Amended Rules or the Post-Amended Rules, as applicable,

that utilises a market system or other software system maintained by AEMO, the Rule Participant is only permitted, or required, as applicable, to perform the obligation if the relevant market system or software system in respect of the obligation is available and fully operational, including all associated dependent links or interfaces, at the time the obligation is intended or required to be performed.

- 1.55.9. For any calculations or determinations under the Post-Amended Rules that require or rely on data or other market related information or documents produced or exchanged under the Pre-Amended Rules that contains a term that is defined under the Pre-Amended Rules that does not exist or have the same meaning under the Post-Amended Rules, AEMO may:
- (a) use the term defined under the Post-Amended Rules that AEMO reasonably determines is intended to apply in respect of the relevant act, matter or thing, to give effect to the calculation or determination; and
  - (b) apply and use the data or other market related information or documents in a manner consistent with, or to give effect to, the term to be used by AEMO pursuant to clause 1.55.9(a).
- 1.55.10. Despite anything to the contrary in the Pre-Amended Rules, where any act, matter or thing is scheduled, expected or approved to occur before the New WEM Commencement Day or after the New WEM Commencement Day and AEMO reasonably determines that the act, matter or thing could adversely affect Power System Security or Power System Reliability from the New WEM Commencement Day, AEMO may:
- (a) reject, decline, or not approve, a request by a Market Participant for the act, matter or thing;
  - (b) where the act, matter or thing was approved under the Pre-Amended Rules, notify the relevant Market Participant that AEMO's approval is withdrawn; or
  - (c) direct a Rule Participant to cease doing the act, matter or thing.
- 1.55.11. Notwithstanding any provision to the contrary, where a report or other document is required to be prepared under these WEM Rules that is to contain or be based on information concerning a period where the Pre-Amended Rules are in force and a period where the Post-Amended Rules will be in force, then:
- (a) the report or other document does not need to include information that is not required to be included in the report or document, as applicable, under the Post-Amended Rules; and



- (b) subject to clause 1.55.11(a), the report or document, as applicable, must contain or be based on the information relevant to the period where the Pre-Amended Rules were in force and the period where the Post-Amended Rules were in force even though the report or document may only be finalised or published (if applicable) under the Post-Amended Rules.

For the avoidance of doubt, for information based on a period where the Pre-Amended Rules were in force, AEMO may, acting reasonably, utilise or reflect that information in the report or document, as applicable, in a manner consistent with the utilisation or reflection of information based on a period under the Post-Amended Rules in that report or document, as applicable.

- 1.55.12. Where a Commenced Amending Rule requires the operation of one or more Specific Amending Rules that have not yet commenced, then regard may be had to those Specific Amending Rules to interpret or give effect to the Commenced Amending Rule even though the Specific Amending Rules have not yet commenced.
- 1.55.13. Where any Commenced Amending Rule requires the operation of WEM Rules which have been amended, repealed or replaced by one or more Commenced Amending Rules, regard may be had to those WEM Rules to interpret or give effect to the Commenced Amending Rule even though those WEM Rules have been amended, repealed or replaced.

## 11. Section 1.56 added

- 11.1 Insert the following new section 1.56:

### 1.56. Specific Transitional Provisions – Transition Schedule

- 1.56.1. In this section 1.56:

**Post-Amended Rules:** Means the WEM Rules as in force immediately after the New WEM Commencement Day.

**Pre-Amended Rules:** Means the WEM Rules as in force immediately before the New WEM Commencement Day.

- 1.56.2. Subject to clause 1.56.3, by 5:00 PM on 30 June 2023, AEMO must determine, and publish on the WEM Website, a document ("**Transition Schedule**") specifying:
  - (a) the acts, matters or things to be done, which includes information to be provided or published, by AEMO and other Rule Participants relating to key operational activities under the Post-Amended Rules in respect of the Scheduling Day for the Trading Day that is also the New WEM

Commencement Day and any subsequent Trading Day for which activities are required to be done before commencement of the Post-Amended Rules;

- (b) any other acts, matters or things to be done by AEMO or any other Rule Participant that are reasonably necessary or desirable to enable AEMO or any other Rule Participant to perform their respective functions under the Post-Amended Rules, including, without limitation:
  - i. operation of the Real-Time Market;
  - ii. scheduling and dispatch of Market Services and Non-Co-optimised Essential System Services;
  - iii. PASA assessments and Outages;
  - iv. operation of the STEM;
  - v. administration of the market under Chapter 2;
  - vi. administration of the Reserve Capacity Mechanism under Chapter 4; and
  - vii. settlement under Chapter 9; and
- (c) the dates and times and, where applicable, the format, for when each of those acts, matters or things must be done.

1.56.3. Prior to publishing the Transition Schedule under clause 1.56.2, AEMO must obtain the Coordinator's approval of the Transition Schedule.

1.56.4. Subject to clause 1.56.5, AEMO may:

- (a) amend the Transition Schedule to add or remove any acts, matters or things; and
- (b) modify or extend the dates or times for any one or more of the acts, matters or things specified in Transition Schedule by publishing an updated Transition Schedule on the WEM Website.

Any such further acts, matters or things, or modified or extended dates and times, take effect from the date that the updated Transition Schedule is published.

1.56.5. Prior to making any amendments to the Transition Schedule pursuant to clause 1.56.4, AEMO:

- (a) may consult with other Rule Participants or interested stakeholders on the proposed amendment; and
- (b) must obtain the Coordinator's approval to the proposed amendment.

- 1.56.6. Each Rule Participant must perform their obligations specified in the Transition Schedule by the dates and times, and in accordance with, the Transition Schedule.
- 1.56.7. Except where expressed to be done under the Pre-Amended Rules or the WEM Procedures in place under the Pre-Amended Rules in the Transition Schedule, all acts, matters or things specified in the Transition Schedule are to be done in accordance with the Post-Amended Rules or the WEM Procedures under the Post-Amended Rules that will apply on and from the New WEM Commencement Day notwithstanding that at the time the act, matter or thing is done the Post-Amended Rules or the WEM Procedures under the Post-Amended Rules have not yet commenced.
- 1.56.8. Without limiting clause 1.56.7, where any assessment or determination, which includes a decision to accept, approve or reject, specified in the Transition Schedule to be done by AEMO prior to the New WEM Commencement Day affects periods falling both before and after the New WEM Commencement Day, AEMO may specify in the Transition Schedule whether the act, matter or thing is to be done by AEMO in accordance with the Pre-Amended Rules or the Post-Amended Rules notwithstanding that at the time the act, matter or thing is done the Post-Amended Rules have not yet commenced.
- 1.56.9. Any information to be published by AEMO pursuant to the Transition Schedule under the Post-Amended Rules may, but is not required, to include any information that is also published under the Pre-Amended Rules.
- 1.56.10. For the settlement cycle timeline, which includes associated adjustment processes, to be published by AEMO pursuant to the Transition Schedule, AEMO may, but is not required to, publish a single timeline that sets out the settlement cycle timeline in respect of:
- (a) each Trading Month (or part of a Trading Month) in the Financial Year that is to be settled under the Pre-Amended Rules;
  - (b) each Trading Week (or part of a Trading Week) in the Financial Year that is to be settled under the Post-Amended Rules,
- provided that the timeline must comply with:
- (c) the requirements in section 9.16 of the Pre-Amended Rules for each period referred to in clause 1.56.10(a); and
  - (d) the requirements in section 9.3 of the Post-Amended Rules for each period referred to in clause 1.56.10(b).

AEMO may amend the dates in the timeline if AEMO's expectation of the New WEM Commencement Day has changed since the time the most recent timeline

was published. The amended settlement timeline will take effect from the date the amended timeline is published.

**12. Section 1.57 added**

12.1 Insert the following new section 1.57:

**1.57. Specific Transitional Provisions – Key Operational Matters**

1.57.1. In this section 1.57:

**Post-Amended Rules:** Means the WEM Rules as in force immediately after the New WEM Commencement Day.

**Pre-Amended Rules:** Means the WEM Rules as in force immediately before the New WEM Commencement Day.

1.57.2. Without limiting section 1.56:

- (a) the Dispatch Plan for Synergy under the Pre-Amended Rules is not required to contain any Trading Intervals with effect from the New WEM Commencement Day, but to the extent it does contain any such Trading Intervals, Synergy is not required to comply with the Dispatch Plan for those Trading Intervals from 08:00 AM on the New WEM Commencement Day;
- (b) each Market Participant must make reasonable endeavours to ensure its Balancing Submissions and LFAS Submissions, as applicable, under the Pre-Amended Rules for each Trading Interval falling within the period seven Trading Days prior to the New WEM Commencement Day result in dispatch outcomes that are consistent with forecast dispatch outcomes resulting from the Market Participant's Real-Time Market Submissions under the Post-Amended Rules that take effect from the New WEM Commencement Day; and
- (c) each Market Participant, other than Synergy, that is subject to an Ancillary Service Contract that is in force under the Pre-Amended Rules as at the New WEM Commencement Day must make reasonable endeavours to ensure that the Market Participant's Real-Time Market Submissions are consistent with the terms of each such Ancillary Service Contract until the end of the last Trading Interval at the end of the New WEM Commencement Day.

1.57.3. Where a Reference Scenario for a Pre-Dispatch Interval or Dispatch Interval specified in the Transition Schedule published in accordance with section 1.56 determines that a Registered Facility will be cleared to provide a Market Service in the first Dispatch Interval of the New WEM Commencement Day, the Market

Participant must ensure that its Registered Facility is ready and able to provide the Market Service in accordance with the Dispatch Instruction that will take effect from commencement of that Dispatch Interval.

- 1.57.4. For each Trading Interval that falls within three Trading Days prior to the New WEM Commencement Day, AEMO must, when scheduling and dispatching Registered Facilities in the Balancing Portfolio under the Pre-Amended Rules:
- (a) take into account the expected dispatch of each such Registered Facility with effect from the New WEM Commencement Day; and
  - (b) make reasonable endeavours to ensure that notwithstanding the information provided by Synergy under clause 7.6A.2 of the Pre-Amended Rules, that each such Registered Facility is dispatched in a manner that will enable the Registered Facility to comply with the Dispatch Instruction for that Registered Facility that will take effect from the commencement of the first Dispatch Interval of the New WEM Commencement Day.
- 1.57.5. Notwithstanding the provisions of the Pre-Amended Rules, between the start of the 4:00 AM Trading Interval and the end of the 7:30 AM Trading Interval on the Trading Day immediately prior to the New WEM Commencement Day, AEMO may dispatch a Registered Facility Out of Merit where the:
- (a) expected position of the Registered Facility pursuant to the last Dispatch Instruction issued to the Registered Facility during those Trading Intervals; and
  - (b) expected starting dispatch position of the Registered Facility pursuant to a Dispatch Instruction under the Post-Amended Rules for the first Dispatch Interval of the New WEM Commencement Day,
- differs by more than the Ramp Rate Limit of the Registered Facility as specified in the Standing Data for the Registered Facility at the relevant time.
- 1.57.6. In respect of any Market Advisories or Dispatch Advisories issued under the Pre-Amended Rules that are still in force at the New WEM Commencement Day:
- (a) each such Market Advisory and Dispatch Advisory will be deemed to be withdrawn under the Pre-Amended Rules and will cease to apply from the New WEM Commencement Day; and
  - (b) prior to the New WEM Commencement Day, AEMO must assess, in the context of the criteria set out in section 7.11 of the Post-Amended Rules, whether the matters or circumstances specified in those Market Advisories or Dispatch Advisories continue to apply. Where the matter or circumstance continues to apply, AEMO must issue a Market Advisory in

respect of that matter or circumstance in accordance with section 7.11 of the Post-Amended Rules.

- 1.57.7. For the purposes of carrying out a Medium Term PASA study or assessment under section 3.16 of the Pre-Amended Rules or the Post-Amended Rules:
- (a) until the New WEM Commencement Day, AEMO:
    - i. must use the Medium Term PASA carried out under the Pre-Amended Rules in respect to any periods in that Medium Term PASA falling after the New WEM Commencement Day; and
    - ii. may take into account information in any Medium Term PASA carried out under the Post-Amended Rules in respect to any periods in that Medium Term PASA falling on or after the New WEM Commencement Day; and
  - (b) after the New WEM Commencement Day, AEMO may, but is not required to, consider information in any Medium Term PASA carried out under the Pre-Amended Rules with respect to any Trading Interval commencing on or after the New WEM Commencement Day.
- 1.57.8. For the purposes of any assessments or determinations by AEMO prior to the New WEM Commencement Day relating to or in connection with Power System Security and Power System Reliability under the Post-Amended Rules for any period after the New WEM Commencement Day, AEMO may take into account information in any PASA carried out under the Pre-Amended Rules or the Post-Amended Rules that relates to Trading Intervals commencing on or after the New WEM Commencement Day.
- 1.57.9. AEMO must transfer and convert, as applicable, data and other information relating to or in connection with Outages under the Pre-Amended Rules to the relevant systems under the Post-Amended Rules ("**Outage Data Conversion**") that AEMO determines is necessary or desirable to:
- (a) enable AEMO to perform its functions in respect of Outages under Chapter 3 of the Post-Amended Rules;
  - (b) enable a Market Participant to comply with its obligations in respect of Outages under Chapter 3 of the Post-Amended Rules; and
  - (c) enable a Network Operator to comply with its obligations in respect of Outages under Chapter 3 of the Post-Amended Rules.
- 1.57.10. AEMO must document, and publish on the WEM Website, the procedure ("**Outage Data Conversion Procedure**") in respect of the Outage Data Conversion by the

date and time specified in the Transition Schedule. The Outage Data Conversion Procedure must include, without limitation:

- (a) the processes to be followed by AEMO (which AEMO must follow), including how AEMO will convert any Outage-related data and other information having regard to any differences between the defined terms and requirements under the Pre-Amended Rules and the Post-Amended Rules;
- (b) the processes to be followed by Market Participants (which Market Participants must follow), including with respect to any Outage-related data or information that the Market Participant must review or submit to AEMO for assessment;
- (c) the processes and obligations with respect to the provision or management of any Outage-related data and information that is required to be provided but is to be excluded from the Outage Data Conversion;
- (d) the dates and times by which acts, matters and things must be done, which may be specified in the Transition Schedule; and
- (e) any other matters AEMO considers relevant.

For the avoidance of doubt, the Outage Data Conversion Procedure is not a WEM Procedure for the purposes of the Pre-Amended Rules or the Post-Amended Rules and consequently none of the provisions applying to WEM Procedures under the Pre-Amended Rules or the Post-Amended Rules will apply to the procedure.

1.57.11. In documenting the procedure referred to in clause 1.57.10, AEMO must:

- (a) consult with the Coordinator and other Rule Participants; and
- (b) take into account any feedback from the Coordinator or other Rule Participants.

1.57.12. Despite anything to the contrary in the Post-Amended Rules, on and from the New WEM Commencement Day, AEMO and other Rule Participants are not required to comply with their respective obligations specified in:

- (a) clauses 3.18C.5(b) and 3.18C.12(c);
- (b) section 3.19; and
- (c) any other provisions relating to Outage Intention Plans under the Post-Amended Rules,

until after 1 January 2025.

1.57.13. Despite anything to the contrary in the Pre-Amended Rules, if, prior to the New WEM Commencement Day, a person submits an application for registration as a

Market Participant under section 2.28 or for a Facility under section 2.29, or for a Facility transfer or de-registration as a Rule Participant or a Facility under section 2.31 of the Pre-Amended Rules and AEMO reasonably determines that the registration, transfer or de-registration process, as applicable, will not be fully completed prior to the New WEM Commencement Day, then:

- (a) AEMO may reject the application; and
- (b) the person who submitted the application must submit a new application in accordance with the relevant Post-Amended Rules after the New WEM Commencement Day.

**13. Section 1.58 added**

13.1 Insert the following new section 1.58:

**1.58. Specific Transitional Provisions – Market Information**

1.58.1. In this section 1.58:

**Confidentiality Status List:** Means the document published by AEMO on the WEM Website specifying the confidentiality status of market related information and documents produced or exchanged in accordance with the Pre-Amended Rules or Pre-Amended Procedures set by AEMO pursuant to Chapter 10 of the Pre-Amended Rules.

**Post-Amended Rules:** Means the WEM Rules as in force immediately after the New WEM Commencement Day.

**Pre-Amended Rules:** Means the WEM Rules as in force immediately before the New WEM Commencement Day.

**Pre-Amended Procedures:** Means the WEM Procedures as in force under the Pre-Amended Rules immediately prior to the New WEM Commencement Day.

1.58.2. On and from the New WEM Commencement Day, AEMO must continue to publish the Confidentiality Status List on the WEM Website that was published on the WEM Website immediately prior to the New WEM Commencement Day.

1.58.3. On and from the New WEM Commencement Day:

- (a) all market related information and documents specified in the Confidentiality Status List as:
  - i. Rule Participant Market Restricted;
  - ii. Rule Participant Dispatch Restricted;
  - iii. System Operation Confidential;
  - iv. AEMO Confidential;



- v. Rule Participant Network Restricted; and
- vi. Coordinator Restricted,

in accordance with clause 10.2.1 and sections 10.7, 10.8 and 10.9 of the Pre-Amended Rules, as applicable, or otherwise prescribed to be so classified pursuant to the Pre-Amended Rules or Pre-Amended Procedures, will, on and from the New WEM Commencement Day, be deemed to be classified as Confidential Information by the Information Manager pursuant to Chapter 10 of the Post-Amended Rules, but only in so far as the market related information and documents were produced or exchanged under the Pre-Amended Rules or Pre-Amended Procedures;

- (b) all market related information and documents specified in the Confidentiality Status List as Public in accordance with clause 10.2.1 and section 10.5 of the Pre-Amended Rules, or otherwise prescribed to be so classified pursuant to the Pre-Amended Rules or Pre-Amended Procedures, will, on and from the New WEM Commencement Day, be deemed to be classified as Public Information by the Information Manager pursuant to Chapter 10 of the Post-Amended Rules; and
- (c) all other market related information and documents produced or exchanged in accordance with the Pre-Amended Rules or Pre-Amended Procedures is to be managed by the Information Manager in accordance with Chapter 10 of the Post-Amended Rules on and from the New WEM Commencement Day notwithstanding that the market related information and documents were produced or exchanged in accordance with the Pre-Amended Rules or Pre-Amended Procedures.

For the avoidance of doubt, all market related information and documents produced or exchanged under the Post-Amended Rules (however described) will be managed by the Information Manager pursuant to Chapter 10 of the Post-Amended Rules, which could result in market related information and documents being set or assigned a confidentiality status under the Post-Amended Rules that is different to the confidentiality status set for the same or similar type of market related information and documents produced or exchanged under the Pre-Amended Rules.

#### **14. Section 1.59 added**

14.1 Insert the following new section 1.59:

##### **1.59. Specific Transitional Provisions – Compliance Monitoring**

- 1.59.1. Notwithstanding clauses 2.16.2A and 2.16.2AA, the Coordinator and the Economic Regulation Authority are only required to develop, provide to AEMO and publish

the initial combined list of data items and WEM Rules as required by and in accordance with clauses 2.16.2A and 2.16.2AA by the New WEM Commencement Day.

- 1.59.2. Notwithstanding clause 2.16.2B, AEMO is only required to ensure that the Coordinator and the Economic Regulation Authority have access to all data items in the Market Surveillance Data Catalogue in accordance with clause 2.16.2B by the New WEM Commencement Day.

**15. Section 2.1A amended**

- 15.1 Clause 2.1A.2(IF) is deleted and replaced with the following:

(IF) to advise and consult with each Network Operator in respect of AEMO's System Operation Functions as contemplated under the Technical Rules applicable to their Network;

- 15.2 Insert the following new clause 2.1A.2(IG):

(IG) to provide information and assistance to the Coordinator relating to the preparation of the Whole of System Plan by the Coordinator;

**16. Section 2.2C amended**

- 16.1 Insert the following new clause 2.2C.1(bA):

(bA) provide information and assistance to the Coordinator relating to the preparation of the Whole of System Plan by the Coordinator;

**17. Section 2.10 amended**

- 17.1 Clause 2.10.8 is deleted and replaced with the following:

2.10.8. [Blank]

- 17.2 Clause 2.10.9(aA) is amended by inserting the word 'or' after the semi-colon at the end of the clause.

- 17.3 Delete clause 2.10.9(aB).

**18. Section 2.16 amended**

- 18.1 Clause 2.16.2A is deleted and replaced with the following:

2.16.2A. The Coordinator and the Economic Regulation Authority, as relevant, must:

- (a) in the case of the Coordinator and the Economic Regulation Authority, provide to AEMO a combined list of data items to be included by AEMO in the Market Surveillance Data Catalogue, being information required by the Coordinator and the Economic Regulation Authority to perform their functions under these WEM Rules;

- (aA) in the case of the Economic Regulation Authority, provide to AEMO a list of the WEM Rules that AEMO must monitor for compliance, and is required to report any alleged breaches of, to the Economic Regulation Authority; and
- (b) publish a combined list of the data items under clause 2.16.2A(a) and WEM Rules under 2.16.2A(aA) on their respective websites.

18.2 Insert the following new clause 2.16.2AA:

2.16.2AA. In developing the list of WEM Rules under clause 2.16.2A(aA) and for any subsequent updates to the list, the Economic Regulation Authority must, in consultation with AEMO:

- (a) reach agreement in respect of the proposed date and time for AEMO to commence monitoring each of the WEM Rules on the list, which must allow a reasonable time for AEMO to implement any required monitoring changes; and
- (b) consider the practicality and cost for AEMO to monitor compliance with each of the WEM Rules on the list.

18.3 Clause 2.16.2B is amended by deleting the words 'By the New WEM Commencement Day,'.

18.4 Clause 2.16.2E is deleted and replaced with the following:

2.16.2E. The Coordinator or the Economic Regulation Authority may, from time to time, request AEMO to include new data items in the Market Surveillance Data Catalogue, and the Economic Regulation Authority may update the list of WEM Rules referred to in clause 2.16.2A(aA), by:

- (a) updating the combined list of data items under clause 2.16.2A(a) or, in the case of the Economic Regulation Authority, by updating the list of WEM Rules referred to in clause 2.16.2A(aA), and providing the updated combined list to AEMO and the Coordinator or Economic Regulation Authority (as relevant); and
- (b) publishing the updated combined list of data items and WEM Rules on their respective websites.

18.5 Clause 2.16.2F is amended by:

- (a) inserting the words 'and WEM Rules' immediately after the words 'list of data items'; and
- (b) inserting the words 'as applicable' immediately after the words 'Market Surveillance Data Catalogue'.

18.6 Insert the following new clause 2.16.4:

- 2.16.4. [Blank]
- 18.7 Insert the following new clause 2.16.5:
- 2.16.5. [Blank]
- 18.8 Clause 2.16.9(a) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 18.9 Clause 2.16.9(b) is deleted and replaced with the following:
- (b) inappropriate and anomalous market behaviour, including behaviour related to market power and the exploitation of shortcomings in the WEM Rules or WEM Procedures by Rule Participants.
- 18.10 Delete clause 2.16.9(c).
- 18.11 Delete clause 2.16.9(d).
- 18.12 Delete clause 2.16.9H.
- 18.13 Clause 2.16.13D is deleted and replaced with the following:
- 2.16.13D. The Coordinator must provide to the Minister a report dealing with the matters identified in clauses 2.16.13A and 2.16.13B at least once in every three years, with the first such report due by 1 July 2025.
- 18.14 Clause 2.16.15A is amended by deleting the word '2.16.13C' and replacing it with the word '2.16.13D'.
- 19. Section 2.19 amended**
- 19.1 Clause 2.19.7 is amended by deleting the word 'clause' and replacing it with the word 'section'.
- 20. Section 2.20 amended**
- 20.1 Clause 2.20.1 is amended by deleting the word 'clause' and replacing it with the word 'section'.
- 20.2 Clause 2.20.2 is amended by deleting the word 'clause' and replacing it with the word 'section'.
- 21. Section 2.22A amended**
- 21.1 Clause 2.22A.3 is deleted and replaced with the following:
- 2.22A.3. AEMO's proposal under clauses 2.22A.2A(a) or 2.22A.2B(b) or AEMO's application for reassessment under clauses 2.22A.12 or 2.22A.13 must, to the extent practicable, identify proposed costs that are associated with a specific project or where that is not practicable, one or more specific functions.

21.2 Clause 2.22A.6 is amended by deleting the words 'clause 2.22A.2A(a) or clause 2.22A.2B(a)' and replacing them with the words 'clauses 2.22A.2A(a) or 2.22A.2B(b)'.

21.3 Clause 2.22A.17 is amended by deleting the words 'clause 2.22A.2(c) if AEMO makes a reassessment application under clauses 2.22A.12 or 2.22A.13 or 2.22A.14' and replacing them with the words 'clauses 2.22A.2A(c) or 2.22A.2B(d) if AEMO makes a reassessment application under clauses 2.22A.12, 2.22A.13 or 2.22A.14'.

**22. Section 2.23 amended**

22.1 Section 2.23 is deleted and replaced with the following:

**2.23. [Blank]**

**23. Section 2.24 amended**

23.1 Clause 2.24.3 is amended by deleting the words 'System Operation Fee rate.' and replacing them with the words 'System Operation Fee rate,'.

23.2 Clause 2.24.5E(b) is deleted and replaced with the following:

- (b) the functions described in clauses 2.2D.1(c), 2.2D.1(f) to 2.2D.1(i) inclusive, and 2.2D.1(j).

**24. Section 2.26 amended**

24.1 Clause 2.26.3(dA) is deleted.

24.2 Clause 2.26.3(dB) is deleted.

24.3 Clause 2.26.3(g) is amended by inserting the word 'and' after the semi-colon at the end of the clause.

24.4 Clause 2.26.3(h) is amended by deleting the word '; and'.

**25. Section 2.27A amended**

25.1 Clause 2.27A.6(a) is amended by deleting the word 'for'.

25.2 Clause 2.27A.6(b) is amended by deleting the word 'for'.

25.3 Clause 2.27A.10(cB) is amended by deleting the words 'respond to' and replacing them with the word 'represent'.

**26. Section 2.28 amended**

26.1 Clause 2.28.19(b) is amended by deleting the words 'an externally-administered body corporate' and replacing them with the words 'a Chapter 5 body corporate'.

**27. Section 2.36 amended**

27.1 Clause 2.36.3 is deleted and replaced with the following:

- 2.36.3. A Rule Participant must ensure that any of its systems which are linked to AEMO's systems conform to AEMO's data and IT security standards at the point of interface.
- 27.2 Clause 2.36.4 is deleted and replaced with the following:
- 2.36.4. A Rule Participant must not deliberately use systems in a manner that will undermine the operability of those or connected software systems.
- 28. Section 2.38 amended**
- 28.1 Clause 2.38.6(c) is amended by deleting the words 'an externally-administered body corporate' and replacing them with the words 'a Chapter 5 body corporate'.
- 29. Section 3.11A amended**
- 29.1 Clause 3.11A.2 is deleted and replaced with the following:
- 3.11A.2. If a Network Operator reasonably considers that one or more of the following events has occurred or applies:
- (a) frequent intervention by AEMO in the dispatch merit order to relieve non-frequency control constraints, such as loss of reactive power or system strength, indicates a network security problem, and a case could be made to procure a locational security NCESS;
  - (b) if network planning assumptions change at any time during the network planning timeframe (for example, demand is lower or higher than forecast), it may signal the need for an emerging service such as reactive power support or voltage stability which could be provided by non-network services located in the relevant part of the network; or
  - (c) a modification to an existing Power System Security or Power System Reliability standard or the introduction of a new Power System Security or Power System Reliability standard within a network planning cycle may trigger the need to procure a NCESS,
- the Network Operator must:
- (d) as soon as practicable, but in any event before making a submission under clause 3.11A.2(e), notify AEMO of each event that it considers has occurred or applies; and
  - (e) make a submission to request the Coordinator to determine whether to trigger an NCESS procurement process in accordance with section 3.11B.
- 29.2 Clause 3.11A.2A is deleted and replaced with the following:
- 3.11A.2A. If AEMO reasonably considers that one or more of the following events has occurred or applies:

- (a) in the course of its normal power system operations, that a significant threat to Power System Security or Power System Reliability exists or is emerging, and the existing mechanisms under these WEM Rules may not be sufficient to address the threat; or
- (b) a modification to an existing WEM Technical Standard, or introduction of a new WEM Technical Standard, that may impact Power System Security or Power System Reliability, and the existing market mechanisms may not be sufficient to meet the modified or new standard,

AEMO must:

- (c) as soon as practicable, but in any event before making a submission under clause 3.11A.2A(d), notify the relevant Network Operator of each event that it considers has occurred or applies; and
- (d) make a submission to request the Coordinator to determine whether to trigger an NCESS procurement process in accordance with section 3.11B.

29.3 Clause 3.11A.3 is deleted and replaced with the following:

3.11A.3. A submission by a Network Operator or AEMO under clauses 3.11A.2(e) or 3.11A.2A(d) must:

- (a) be in writing;
- (b) be made by a date that the Network Operator or AEMO, as applicable, reasonably considers allows sufficient time to enable the NCESS procurement process set out in section 3.11B to be conducted; and
- (c) contain sufficient information and analysis regarding the potential or actual impact on Power System Security, Power System Reliability or costs for each trigger event in clauses 3.11A.2 or 3.11A.2A that is specified in the submission to enable the Coordinator to consider the factors outlined in clause 3.11A.7.

### 30. Section 3.11B amended

30.1 Clause 3.11B.5(e) is amended by deleting the word 'timing' and replacing it with the words 'expected commencement'.

30.2 Insert the following new clause 3.11B.5(eA):

- (eA) reasonable expectation of the frequency of service utilisation, the expected duration of each utilisation and when the service is expected to be utilised during typical days;

30.3 Clause 3.11B.7(a) is deleted and replaced with the following:

- (a) the name and type of facility or equipment, and whether it is registered or intended to be registered under these WEM Rules;

30.4 Clause 3.11B.7(h) is amended by deleting the word 'Market' and replacing it with the word 'WEM'.

30.5 Insert the following new clause 3.11B.7(iA):

- (iA) if the facility or equipment would ordinarily be capable of being assigned Certified Reserve Capacity, whether the Market Participant or service provider would require any reimbursement for any reduction in a Reserve Capacity settlement amount determined for it under clause 9.7.1 that is a direct consequence of the enablement or dispatch of the NCESS;

**31. Section 3.21 amended**

31.1 Clause 3.21.2A is deleted and replaced with the following:

- 3.21.2A. An outage does not occur in respect of a GIA Facility for the purposes of these WEM Rules where the GIA Facility is dispatched in accordance with a Network Control Service Contract and these WEM Rules.

**32. Heading above section 3.24 amended**

32.1 The heading immediately above section 3.24 **'Market Data'** is deleted and replaced with the following:

**Distributed Energy Resources Register**

**33. Section 3A.1 amended**

33.1 Insert the following new clause 3A.1.5:

3A.1.5. AEMO must:

- (a) in consultation with the Network Operator, prepare guidelines on how AEMO determines the maximum temperature as defined in Appendix 12; and
- (b) publish those guidelines on the WEM Website.

33.2 Clause 3A.4.4 is deleted and replaced with the following:

3A.4.4. A Network Operator must:

- (a) prepare guidelines in consultation with AEMO, to provide information to Market Participants as to how the standard or technical level of performance in respect of each Technical Requirement will be assessed, and the information that must be included in submissions for Proposed Generator Performance Standards, for each type of generating unit; and
- (b) publish those guidelines on its website.

**34. Section 3A.6 amended**



- 34.1 Clause 3A.6.1(a) is amended by deleting the word 'Generation' and replacing it with the word 'Generating'.
- 34.2 Clause 3A.6.2(a) is amended by deleting the words 'a Template Generator Monitoring Plan which details' and replacing them with the words 'the following requirements relating to the content of a Generator Monitoring Plan ("**Generator Monitoring Plan Requirements**")'.
- 34.3 Insert the following new clause 3A.6.2(aA):
- (aA) the process a Market Participant responsible for a Transmission Connected Generating System must follow to submit a proposed Generator Monitoring Plan to AEMO;
- 34.4 Clause 3A.6.4(a) is deleted and replaced with the following:
- (a) meets the Generator Monitoring Plan Requirements as applicable to the Transmission Connected Generating System; or
- 34.5 Clause 3A.6.4(b) is amended by deleting the words 'requirements of the Template Generator Monitoring Plan' and replacing them with the words 'Generator Monitoring Plan Requirements'.
- 34.6 Clause 3A.6.5(a) is deleted and replaced with the following:
- (a) it meets the Generator Monitoring Plan Requirements as applicable to the Transmission Connected Generating System; or
- 34.7 Clause 3A.6.5(b) is amended by deleting the words 'Template Generator Monitoring Plan' and replacing them with the words 'Generator Monitoring Plan Requirements'.
- 34.8 Clause 3A.6.6(c) is amended by deleting the words 'Template Generator Monitoring Plan' and replacing them with the words 'Generator Monitoring Plan Requirements'.
- 34.9 Clause 3A.6.9 is amended by deleting the words 'Template Generator Monitoring Plan' and replacing them with the words 'Generator Monitoring Plan Requirements' in each place where they occur.
- 35. Section 3A.13 amended**
- 35.1 Clause 3A.13.1 is amended by:
- (a) deleting the comma at the end of clause 3A.13.1(d) and replacing it with a full stop; and
- (b) deleting the words 'but does not include the replacement of equipment where the capacity of the Transmission Connected Generating System to meet the Registered Generator Performance Standard remains unchanged as a result of the replacement of equipment.'.
- 35.2 Clause 3A.13.2 is deleted and replaced with the following:

3A.13.2. A Network Operator, in consultation with AEMO, must develop, maintain and publish guidelines to inform Market Participants and provide examples of:

- (a) Potential Relevant Generator Modifications;
- (b) circumstances and situations in which the replacement of equipment, where the characteristics, performance or capacity of the Transmission Connected Generating System remain unchanged, will not be or may not be declared a Relevant Generator Modification;
- (c) circumstances and situations in which a Potential Relevant Generator Modification will be or may be declared a Relevant Generator Modification;
- (d) the processes that a Market Participant must follow to notify the relevant Network Operator prior to undertaking a Potential Relevant Generator Modification; and
- (e) the processes that a Network Operator must follow in making a determination about a Potential Relevant Generator Modification and in notifying the Market Participant of the outcome of its determination,

for the purposes of Chapter 3A and Appendix 12.

35.3 Clause 3A.13.3 is amended by inserting the words 'in accordance with the processes described in the guidelines published under clause 3A.13.2' immediately after the word 'Modification'.

35.4 Clause 3A.13.4 is amended by inserting the words 'in accordance with the processes described in the guidelines published under clause 3A.13.2' immediately after the words 'to be a Relevant Generator Modification'.

35.5 Clause 3A.13.8(b) is amended by inserting the words ', these WEM Rules' immediately after the words 'the Technical Rules applicable to the Network'.

#### **36. Section 4.2 amended**

36.1 Insert the following new clause 4.2.2:

4.2.2. AEMO must prepare a Request for Expressions of Interest which includes the information described in clause 4.3.1.

36.2 Clause 4.2.7(a) is amended by inserting the word 'total' immediately after the word 'the'.

36.3 Insert the following new clause 4.2.7(aA):

(aA) the number of Expressions of Interest received, excluding Expressions of Interest for EOI Facility Variants that have not been nominated under clause 4.4.2;

36.4 Clause 4.2.7(b) is amended by inserting the words 'referred to in clause 4.2.7(aA)' immediately after the words 'Expressions of Interest'.

**37. Section 4.4 amended**

37.1 Insert the following new clause 4.4.1(bC):

(bC) whether the Expression of Interest is for an EOI Facility Variant and, if so, whether the Expression of Interest is nominated under clause 4.4.2;

37.2 Clause 4.4.1(d)(vi) is amended by deleting the word 'and' after the semi-colon at the end of the clause.

37.3 Clause 4.4.1(d)(vii) is amended by deleting the full stop at the end of the clause and replacing it with a semi-colon.

37.4 Insert the following new clause 4.4.1(d)(viii):

viii. if an application under clause 4.4.1(d)(ii) has been submitted, the application reference number provided by the Network Operator; and

37.5 Insert the following new clause 4.4.1(d)(ix):

ix. if an application under clause 4.4.1(d)(ii) has been submitted, the date the application was submitted to the Network Operator; and

37.6 Insert the following new clause 4.4.1(e):

(e) any other information specified by AEMO in the Request for Expression of Interest under clause 4.3.1(j).

37.7 Insert the following new clause 4.4.2:

4.4.2. A person who submits two or more Expressions of Interest for EOI Facility Variants must nominate one Expression of Interest to be used by AEMO for the purposes of clauses 4.2.7(b) and 4.4B.4.

37.8 Insert the following new clause 4.4.3:

4.4.3. If:

(a) a person submits two or more Expressions of Interest and does not specify that any of the Expressions of Interest is for an EOI Facility Variant under clause 4.4.1(bC); and

(b) AEMO reasonably considers that two or more of the Expressions of Interest are for EOI Facility Variants,

AEMO may (after using reasonable endeavours to consult with the person) select one Expression of Interest to use for the purposes of clauses 4.2.7(b) and 4.4B.4. The Expression of Interest selected by AEMO is deemed to be the Expression of Interest nominated by the person under clause 4.4.2.

**38. Section 4.4B amended**

38.1 Clause 4.4B.3(a)(ii)(1) is amended by deleting the word 'and' after the semi-colon at the end of the clause.

38.2 Clause 4.4B.4 is amended by inserting the words 'Subject to clause 4.4B.4A,' immediately before the words 'AEMO must formulate'.

38.3 Insert the following new clause 4.4B.4A:

4.4B.4A. AEMO is not required to formulate Preliminary RCM Constraint Equations for a Facility that is an EOI Facility Variant unless the Expression of Interest is:

- (a) nominated under clause 4.4.2; or
- (b) deemed to be nominated in accordance with clause 4.4.3.

**39. Section 4.5 amended**

39.1 Clause 4.5.9(a)(ii) is deleted and replaced with the following:

- ii. the size, in MW, of the largest contingency relating to loss of supply (related to any Facility, including a Network) expected at the time of forecast peak demand (including transmission losses and allowing for Intermittent Loads),

39.2 Clause 4.5.10(a) is amended by deleting the words 'energy producing systems' and replacing them with the words 'Energy Producing Systems'.

**40. Section 4.5A amended**

40.1 Clause 4.5A.1 is amended by deleting the word 'Co-ordinator's' and replacing it with the word 'Coordinator's'.

**41. Section 4.9 amended**

41.1 Clause 4.9.8(b) is amended by deleting the word '4.1.2' and replacing it with the word '4.1.12'.

**42. Section 4.10 amended**

42.1 Clause 4.10.1(e)(i) is amended by deleting the word 'Facility' and replacing it with the words 'Non-Intermittent Generating System'.

42.2 Clause 4.10.1(e)(ii) is amended by:

- (a) deleting the word 'Facility' and replacing it with the words 'Non-Intermittent Generating System'; and
- (b) deleting the word '41oC' and replacing it with the words '41 degrees Celsius'.

42.3 Clause 4.10.1(e)(iv) is amended by:

- (a) deleting the words 'at the site of the Facility' and replacing them with the words 'at the site of the Non-Intermittent Generating System';
- (b) deleting the words 'at the site of the generator' and replacing them with the words 'at the site of the Facility'; and

- (c) deleting the word '41°C' and replacing it with the words '41 degrees Celsius'.
- 42.4 Clause 4.10.1(e)(v) is amended by deleting the word 'Facility' and replacing it with the words 'Non-Intermittent Generating System' in each place where it occurs.
- 42.5 Clause 4.10.1(e)(vii) is deleted and replaced with the following:
- vii. for Non-Intermittent Generating Systems that operated for at least 12 months, the forced and unforced outage rate of the Non-Intermittent Generating System;
- 42.6 Clause 4.10.1(fA) is amended by deleting the words 'for a Scheduled Facility comprising only an Electric Storage Resource' and replacing them with the words 'for an Electric Storage Resource, except where clause 4.10.1(fD) applies'.
- 42.7 Clause 4.10.1(fA)(ii) is amended by:
- (a) deleting the word 'Facility' and replacing it with the words 'Electric Storage Resource'; and
- (b) deleting the word '41oC' and replacing it with the words '41 degrees Celsius'.
- 42.8 Clause 4.10.1(fA)(iii) is amended by deleting the word '41oC' and replacing it with the words '41 degrees Celsius'.
- 42.9 Clause 4.10.1(fB) is deleted and replaced with the following:
- (fB) [Blank]
- 42.10 Clause 4.10.1(fC) is deleted and replaced with the following:
- (fC) [Blank]
- 42.11 Clause 4.10.1(fD)(ii) is deleted and replaced with the following:
- ii. the nameplate capacity and minimum and maximum Charge Level capabilities of each Electric Storage Resource and the temperature dependence of that capacity;
- 42.12 Clause 4.10.1(fD)(iii) is amended by deleting the word '41oC' and replacing it with the words '41 degrees Celsius'.
- 42.13 Clause 4.10.1(k) is amended by deleting the words 'outlined in' and replacing them with the words 'specified for the Facility or component under'.
- 42.14 Clause 4.10.3(d) is amended by deleting the words 'outlined in' and replacing them with the words 'specified for the Facility or component (as applicable) under'.
- 42.15 Clause 4.10.4 is amended by deleting the word 'clause' and replacing it with the word 'section'.
- 43. Section 4.11 amended**
- 43.1 Clause 4.11.4 is amended by deleting the words 'to a Demand Side Programme' immediately after the words 'Subject to clause 4.11.12, when assigning Certified Reserve Capacity'.

43.2 Clause 4.11.4(a) is deleted and replaced with the following:

(a) Availability Class 1 where either:

- i. the Facility contains an Intermittent Generating System or Non-Intermittent Generating System; or
- ii. AEMO reasonably expects the Facility to be available to be dispatched for all Trading Intervals in a Capacity Year, allowing for Outages and any restrictions on the availability specified by the applicant under clause 4.10.1(g); or

**44. Section 4.13 amended**

44.1 Clause 4.13.9 is amended by deleting the words '(including for the purposes of setting the Reserve Capacity Obligation Quantity)'.

**45. Section 4.14 amended**

45.1 Clause 4.14.1C(b) is amended by inserting a semi-colon after the word 'System'.

45.2 Clause 4.14.1C(d) is amended by deleting the word 'and' after the semi-colon at the end of the clause.

**46. Heading above section 4.15 amended**

46.1 The heading immediately above section 4.15 '**The Benchmark Reserve Capacity Price**' is deleted and replaced with the following:

**Network Access Quantity**

46.2 Clause 4.15.5 is deleted and replaced with the following:

4.15.5. The facility dispatch scenarios to be developed by AEMO pursuant to clause 4.15.4 must:

- (a) include, in AEMO's sole discretion, variations in the output of Facilities dispatched to meet peak demand;
- (b) include Facilities with Certified Reserve Capacity or Early Certified Reserve Capacity for the relevant Reserve Capacity Cycle;
- (c) ensure a Facility is not dispatched to a level greater than the Certified Reserve Capacity or Early Certified Reserve Capacity for the Facility; and
- (d) include any other factors specified in the WEM Procedure referred to in clause 4.15.17.

46.3 Clause 4.15.16(b) is deleted and replaced with the following:

- (b) the Network Access Quantity or Indicative Network Access Quantity determined for each Facility assessed in the Network Access Quantity Model.

**47. Heading above section 4.16 added**

47.1 Insert the following new heading immediately above section 4.16:

**The Benchmark Reserve Capacity Price**

**48. Section 4.20 amended**

48.1 Clause 4.20.16 is amended by deleting the comma immediately after the words 'clause 4.1.21A,'.

**49. Section 4.23A amended**

49.1 Clause 4.23A.4 is amended by deleting the words 'aggregated facility' and replacing them with the words 'Aggregated Facility' in each place where they occur.

**50. Heading above section 4.28B deleted**

50.1 The heading '**Treatment of New Small Generators**' immediately above section 4.28B is deleted.

**51. Section 4.29 amended**

51.1 Clause 4.29.1B is amended by:

(a) deleting the words 'divided by 12'; and

(b) deleting the formula for calculating 'TFMRCP' and replacing it with the following:

$$\text{TFMRCP} = \text{Min}(\text{max}(\text{Reserve\_Capacity\_Price}, \text{Trans\_Floor}), \text{Trans\_Ceiling}) / 12$$

**52. Section 5.2A amended**

52.1 Clause 5.2A.2 is amended by deleting the comma immediately after the words 'clause 4.10.1,'.

52.2 Clause 5.2A.3 is amended by deleting the word '4.1.11' and replacing it with the word '4.1.7'.

**53. Section 9.9 amended**

53.1 Clause 9.9.3A is amended by deleting the words 'Load Rejection Reserve Service and and System Restart Service' and replacing them with the words 'Load Rejection Reserve Service and System Restart Service'.

53.2 Clause 9.9.3B is amended by deleting the words 'Load Rejection Reserve Service and and System Restart Service,' and replacing them with the words 'Load Rejection Reserve Service and System Restart Service'.

**54. Section 9.24 amended**

54.1 Clause 9.24.3A is amended by inserting a full stop immediately after the clause number so that it reads '9.24.3A.'.

54.2 Clause 9.24.3A(a)(ii) is amended by deleting the comma immediately after the words 'Dispatch Support Service Contract with AEMO,'.

## 55. Chapter 11 (Glossary) amended

- 55.1 Insert each of the following new definitions in Chapter 11 (Glossary) in the appropriate alphabetical order:

**Constraint Set:** A group of Constraint Equations that respond to a particular condition or set of conditions.

**Deemed DSM Dispatch:** The quantity (in MWh) for a Demand Side Programme for a Trading Interval equal to the least of:

- (a) half of the Facility's Capacity Credits;
- (b) the requested decrease in consumption specified under clause 7.13.1(eG);  
and
- (c) the greater of zero and the difference between:
  - i. half of the Relevant Demand set in clause 4.26.2CA; and
  - ii. the Demand Side Programme Load measured in the Trading Interval, adjusted to add back any Further DSM Consumption Decrease.

**EOI Facility Variant:** An Expression of Interest that is associated with one or more other Expressions of Interest and that, on the basis of the information provided in clause 4.4.1, relates to the same Facility.

**Expression of Interest:** In respect of a Reserve Capacity Cycle, a response to the Request for Expressions of Interest provided to AEMO in accordance with section 4.2.

**Generator Monitoring Plan Requirements:** The requirements relating to the content of a Generator Monitoring Plan set out in the WEM Procedure referred to in clause 3A.6.2 as may be amended from time to time.

- 55.2 Delete the following definition for 'Certified Reserve Capacity' in Chapter 11 (Glossary):

**Certified Reserve Capacity:** For a Facility, and in respect of a Reserve Capacity Cycle, is the quantity of Reserve Capacity that AEMO has assigned to the Facility for the Reserve Capacity Cycle in accordance with clause 4.11 or section 4.28B, as adjusted under these WEM Rules including clause 4.14.8. Certified Reserve Capacity assigned to a Facility registered by a Market Participant is held by that Facility.

- 55.3 Delete the definition for 'Constraint Sets' in Chapter 11 (Glossary).

- 55.4 The definition for 'Constraints Library' is amended by:

- (a) in paragraph (a), deleting the word 'and' after the semi-colon;
- (b) in paragraph (b)(iii), deleting the full stop immediately after the words 'clause 2.27A.10'; and
- (c) in paragraph (c)(i), deleting the word 'and' after the semi-colon.



- 55.5 The definition for 'GIA Facility' in Chapter 11 (Glossary) is deleted and replaced with the following:
- GIA Facility:** A Facility that was a Constrained Access Facility (as previously defined in the WEM Rules) for the purpose of certification of Reserve Capacity in one or more Reserve Capacity Cycles.
- 55.6 The definition for 'Island Separation Frequency Band' in Chapter 11 (Glossary) is amended by deleting the word 'has' and replacing it with the word 'Has'.
- 55.7 The definition for 'Network Access Quantity Model' in Chapter 11 (Glossary) is amended by deleting the word '4.15.5' and replacing it with the word '4.15.6'.
- 55.8 The definition for 'Network Access Quantity Model Inputs' in Chapter 11 (Glossary) is amended by deleting paragraph (a) and replacing it with the following:
- (a) the preliminary Network Access Quantity determined by AEMO for a Facility and, where applicable, the adjusted Indicative Network Access Quantity determined for a Facility that is classified as an Indicative NAQ Facility under Appendix 3, for each applicable step in Appendix 3;
- 55.9 The definition for 'Network Augmentation Funding Facility' in Chapter 11 (Glossary) is deleted and replaced with the following:
- Network Augmentation Funding Facility:** For a Reserve Capacity Cycle, a Facility or upgrade to a Facility that a Market Participant has nominated to be classified as a Network Augmentation Funding Facility for the Reserve Capacity Cycle in an application for certification of Reserve Capacity under clause 4.10.1(m), and which AEMO has classified as a Network Augmentation Funding Facility for the Reserve Capacity Cycle.
- 55.10 The definition for 'Normal Operating Frequency Band' in Chapter 11 (Glossary) is amended by deleting the words 'given in in clause' and replacing them with the words 'given in clause'.
- 55.11 Delete the definition for 'Template Generator Monitoring Plan' in Chapter 11 (Glossary).

## **56. Appendix 3 amended**

- 56.1 Appendix 3 is amended by deleting the full stop after the words 'a preliminary Network Access Quantity or an Indicative Network Access Quantity for an Early CRC Facility, as applicable' and replacing it with the word '; and'.
- 56.2 Appendix 3 is amended by inserting the following new paragraph immediately above the paragraph containing the words 'In this Appendix 3':
- AEMO must use the applicable Constraint Sets in the Network Access Quantity Model for the Facilities assessed in each step of this Appendix 3.
- 56.3 Appendix 3 is amended by deleting 'CR[1] = Q[1] -' and replacing it with 'CR[1] = Q[1]'.

- 56.4 Appendix 3 is amended by deleting ' $CR[2] = \max(0, Q[2]) - \max(0, Z - CR[1])$ '; and' and replacing it with ' $CR[2] = \max(0, Q[2]) - \max(0, Z - CR[1])$ ';.
- 56.5 Appendix 3 is amended by deleting the full stop immediately after the words 'means the Reserve Capacity Cycle for which the processes in this Appendix are being undertaken to procure Reserve Capacity for the Capacity Year for that Reserve Capacity Cycle' and replacing it with a semi-colon.
- 56.6 Appendix 3 is amended by deleting the space immediately before the words 'an application for Early Certified Reserve Capacity has been made under section 4.28C to deliver Reserve Capacity for a future Reserve Capacity Cycle; and'.
- 56.7 Appendix 3 is amended by deleting the full stop immediately after the words 'pursuant to that application, AEMO has assigned Early Certified Reserve Capacity to the Facility in accordance with section 4.28C' and replacing it with a semi-colon.
- 56.8 Appendix 3 is amended by deleting the words 'there will be' immediately after the words 'means, for a NAQ Facility,'.
- 56.9 Appendix 3 is amended by deleting the full stop immediately after the words 'the nameplate capacity specified under clause 4.10.1(dA), for the NAQ Facility as provided in the current Reserve Capacity Cycle' and replacing it with a semi-colon.
- 56.10 Appendix 3 is amended by deleting the full stop immediately after the words 'means a Reserve Capacity Cycle that is subsequent to the current Reserve Capacity Cycle' and replacing it with a semi-colon.
- 56.11 Appendix 3 is amended by deleting the full stop immediately after the words 'an NAQ Facility' in the definition for 'Indicative NAQ Facility' and replacing it with a semi-colon.
- 56.12 Appendix 3 is amended by deleting the full stop immediately after the words 'but excludes a Facility for which AEMO has received a notice under section 4.4A.1 that the Facility is expected to retire in the Capacity Year to which the current Reserve Capacity Cycle relates and the notice has not been withdrawn under clause 4.4A.6' and replacing it with a semi-colon.
- 56.13 Appendix 3 is amended by deleting the full stop immediately after the words 'the maximum preliminary Network Access Quantity that can be determined for a Facility at the end of a step in Part A or Part B, as applicable, cannot exceed the Certified Reserve Capacity assigned to the Facility for the current Reserve Capacity Cycle' and replacing it with a semi-colon.
- 56.14 Appendix 3 is amended by deleting the semi-colon immediately after the words 'in the order of the time the applications for Certified Reserve Capacity were received by AEMO, with the Facility to which the earlier application relates being selected first' and replacing it with a full stop.
- 56.15 Step 2 of Part A of Appendix 3 is deleted and replaced with the following:

Step 2: Let the Network Access Quantity Model contain:

- (a) NAQ Facilities for Availability Class 1 and Availability Class 2; and
- (b) Indicative NAQ Facilities.

56.16 Step 4 of Part A of Appendix 3 is amended by deleting the words 'and the applicable Constraint Set for each such Facility'.

56.17 Step 13(a) of Part A of Appendix 3 is amended by deleting the words 'and all Constraint Sets applicable to each Facility'.

56.18 Step 2 of Part B of Appendix 3 is deleted and replaced with the following:

Step 2: Let the Network Access Quantity Model contain:

- (a) NAQ Facilities for Availability Class 1 and Availability Class 2; and
- (b) Indicative NAQ Facilities.

56.19 Step 4 of Part B of Appendix 3 is amended by deleting the words 'and the applicable Constraint Set for each such Facility'.

56.20 Step 13(a) of Part B of Appendix 3 is amended by deleting the words 'and all Constraint Sets applicable to each Facility'.

## **57. Appendix 12 amended**

57.1 Appendix 12 is amended by inserting the following new paragraph immediately above the paragraph containing the words 'When producing electric power, Electricity Storage which is part of a Generating System will be considered as Generation and must meet the Technical Requirements of Appendix 12':

The measurement location for each of the following terms, where they are used in this Appendix, is as specified in the relevant clause or, where applicable, by the relevant Network Operator in consultation with AEMO and recorded in the relevant Generator Performance Standard:

- (a) Rated Maximum Active Power;
- (b) Rated Maximum Apparent Power;
- (c) Maximum Continuous Current;
- (d) Rated Minimum Active Power;
- (e) Temperature Dependency Data; and
- (f) Generator Performance Chart.

57.2 Insert the following new definitions in Part A12.1 of Appendix 12 in the appropriate alphabetical order:

**Generator Performance Chart:** Means a chart defining the capability of a Generating System or Generating Unit to produce Active Power while producing or consuming Reactive Power. The capability is provided for specified ambient conditions and voltage levels at the Measurement Location based on a template provided by the Network Operator. The chart shows the Reactive Power capability continuously achievable while in operation, subject to energy source availability, for a given level of Active Power output for a range of ambient temperatures, while not exceeding limits necessary to prevent damage to Equipment and ensure compliance with other Technical Requirements.

**Maximum Temperature:** The maximum ambient temperature specified by AEMO in consultation with the Network Operator, based on an assessment of the physical location of the Generating Units, as described in the guidelines published by AEMO under clause 3A.1.5 and recorded in the temperature dependency data.

**Measurement Location:** The Connection Point, or another measurement location agreed by AEMO and the Network Operator, as specified for the relevant Technical Requirement.

**Target Setpoint:** Means a value specifying a desired operating level for the Generating Unit or Generating System, as applicable, at the relevant location. For example, a desired Active Power, Reactive Power or Power Factor.

- 57.3 Part A12.1 of Appendix 12 is amended by deleting the definition for 'Electricity Storage' and replacing it with the following:

**Electricity Storage:** Means equipment consisting of Storage Works but does not include non-dispatchable Active Power energy storage equipment such as a synchronous compensator.

- 57.4 Delete the definition for 'Generator Capability Chart' in Part A12.1 of Appendix 12.

- 57.5 The definition for 'Maximum Continuous Current' in Part A12.1 of Appendix 12 is deleted and replaced with the following:

**Maximum Continuous Current:** Means the maximum current capable of being injected continuously in accordance with the relevant Australian Standard or ISO Standard for Synchronous Generating Units and Asynchronous Generating Units at the Measurement Location by the Generating System or Generating Units, as applicable, in order to support maintaining voltage on the SWIS during a disturbance, without causing damage to, or maloperation of, Equipment in the Transmission Connected Generating System. The details regarding which relevant Australian Standard or ISO Standard applies is documented in the guidelines published by the Network Operator under clause 3A.4.4.

- 57.6 The definition for 'Rated Maximum Active Power' in Part A12.1 of Appendix 12 is deleted and replaced with the following:

**Rated Maximum Active Power:** The maximum Active Power level that a Generating Unit or Generating System, as applicable, can continuously deliver at the Measurement Location, subject to energy source availability, in accordance with the requirements of Part A12.2 when

the ambient temperature is at the Maximum Temperature, as specified in the Temperature Dependency Data.

- 57.7 The definition for 'Rated Maximum Apparent Power' in Part A12.1 of Appendix 12 is deleted and replaced with the following:

**Rated Maximum Apparent Power:** The maximum Apparent Power level that a Generating Unit or Generating System, as applicable, can continuously deliver at the Measurement Location, subject to energy source availability, when operating at the extent of the Generator Performance Chart provided under Part A12.3 and the ambient temperature is at the Maximum Temperature.

- 57.8 The definition for 'Rated Minimum Active Power' in Part A12.1 of Appendix 12 is deleted and replaced with the following:

**Rated Minimum Active Power:** Means

- (a) in relation to a Generating Unit, the minimum amount of Active Power that the Generating Unit can continuously deliver, subject to energy source availability, while maintaining stable operation at the Measurement Location; and
- (b) in relation to a Generating System, the combined minimum amount of Active Power that its in-service Generating Units can continuously deliver, subject to energy source availability, at the Measurement Location while maintaining stable operation.

- 57.9 The definition for 'Temperature Dependency Data' in Part A12.1 of Appendix 12 is deleted and replaced with the following:

**Temperature Dependency Data:** Means a set of data defining the maximum achievable Active Power of a Generating System or Generating Unit at a particular temperature at the Measurement Location. The data will be provided based on a template provided by the Network Operator. The data shows the Active Power capability achievable for a range of ambient temperatures while meeting all other Technical Requirements.

- 57.10 Clause A12.2.1.1 of Part A12.2 of Appendix 12 is deleted and replaced with the following:

A12.2.1.1. In relation to the application of this Technical Requirement, the requirements apply at the Connection Point unless otherwise specified in the relevant clause, or the Network Operator or AEMO determines that the Technical Requirement must be measured at a different location for the particular Generating Unit or Generating System, in which case the measurement location must be recorded as part of the relevant Generator Performance Standard.

- 57.11 Clause A12.2.3.1 of Part A12.2 of Appendix 12 is deleted and replaced with the following:

A12.2.3.1. [Blank]

- 57.12 Clause A12.2.3.2 of Part A12.2 of Appendix 12 is deleted and replaced with the following:

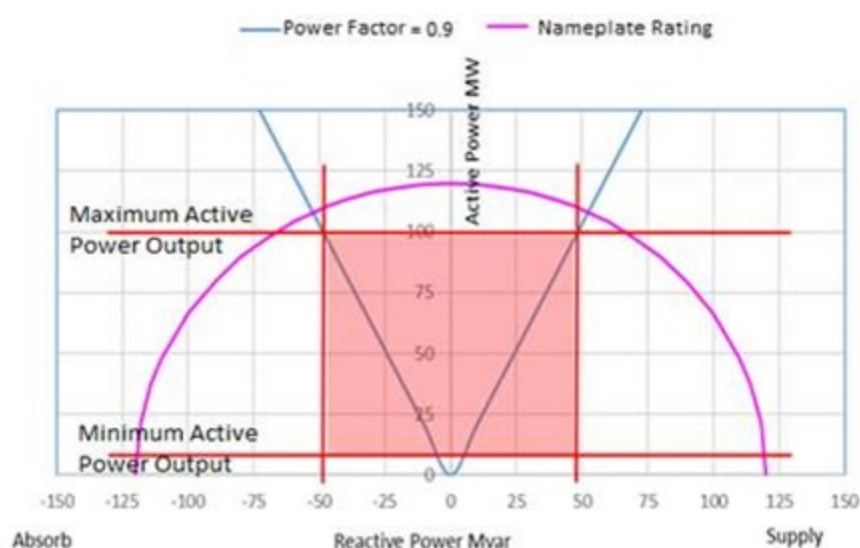
- A12.2.3.2. The Generator Performance Standard for Active Power capability must include Temperature Dependency Data up to and including the Maximum Temperature, which must include the Rated Maximum Active Power, and including ambient temperatures above the Maximum Temperature after which the Active Power capability is reduced:
- (a) for the Generating System measured at the Connection Point; and
  - (b) for each Synchronous Generating Unit measured at the Generating Unit terminal.
- 57.13 Clause A12.2.3.3 of Part A12.2 of Appendix 12 is deleted and replaced with the following:
- A12.2.3.3. [Blank]
- 57.14 Clause A12.2.3.4 of Part A12.2 of Appendix 12 is deleted and replaced with the following:
- A12.2.3.4. Subject to clause A12.2.3.5 and energy source availability, the Generating Unit or Generating System, as applicable, must be capable of maintaining Continuous Uninterrupted Operation and meeting all other Technical Requirements while achieving and maintaining the relevant Active Power output levels at the temperatures specified in clause A12.2.3.2.
- 57.15 Clause A12.2.3.5 of Part A12.2 of Appendix 12 is amended by deleting the words 'maximum ambient temperature' and replacing them with the words 'Maximum Temperature'.
- 57.16 Insert the following new clause A12.2.3.6 in Part A12.2 of Appendix 12:
- A12.2.3.6. Unless otherwise directed by AEMO or the Network Operator under these WEM Rules, Generating Systems and Generating Units, as applicable, must not exceed the relevant Active Power levels at the temperatures specified in clause A12.2.3.2.
- 57.17 Clause A12.3.1.1 of Part A12.3 of Appendix 12 is deleted and replaced with the following:
- A12.3.1.1. In relation to the application of this Technical Requirement, the requirements apply at the Connection Point unless otherwise specified in the relevant clause, or the Network Operator or AEMO determines that the Technical Requirement must be measured at a different location for the particular Generating Unit or Generating System, in which case the measurement location must be recorded as part of the relevant Generator Performance Standard.
- 57.18 Clause A12.3.1.2 of Part A12.3 of Appendix 12 is deleted and replaced with the following:
- A12.3.1.2. The Generator Performance Standard must include a Generator Performance Chart, including data up to and including the Maximum Temperature, and including ambient temperatures above the Maximum Temperature after which the performance is reduced.
- 57.19 Clause A12.3.1.3 of Part A12.3 of Appendix 12 is amended by deleting the words 'Generator Capability Chart' and replacing them with the words 'Generator Performance Chart'.

57.20 Clause A12.3.1.4 of Part A12.3 of Appendix 12 is deleted and replaced with the following:

A12.3.1.4. [Blank]

57.21 Clause A12.3.2.1 of Part A12.3 of Appendix 12 is deleted and replaced with the following:

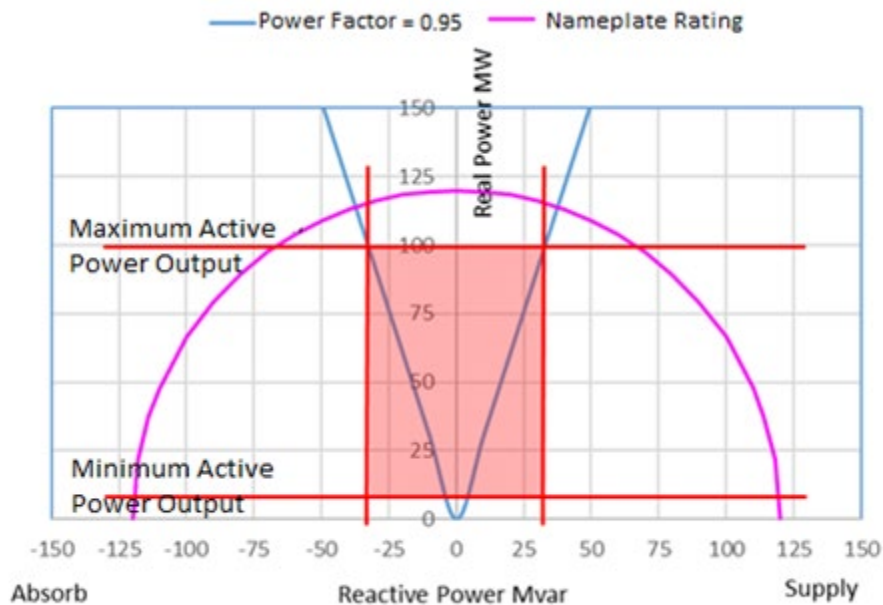
A12.3.2.1. For all operating conditions including temperatures up to and including the Maximum Temperature, each Generating Unit within the Generating System must be capable of supplying or absorbing Reactive Power continuously of at least the amount equal to the product of the Rated Maximum Active Power output of the Generating Unit at nominal voltage and 0.484 while operating at any level of Active Power output between its maximum Active Power output level as specified in the Temperature Dependency Data under Part A12.2, and its Rated Minimum Active Power output level.



**Figure A12.3.2.1: Example Reactive Power Capability required to meet Ideal Generator Performance Standard**

57.22 Clause A12.3.3.1 of Part A12.3 of Appendix 12 is deleted and replaced with the following:

A12.3.3.1. Subject to clause A12.3.3.3, for all operating conditions including temperatures up to and including the Maximum Temperature, the Generating System must be capable of supplying or absorbing Reactive Power continuously of at least the amount equal to the product of the Rated Maximum Active Power output of the Generating System and 0.329 while operating at any level of Active Power output level between its maximum Active Power output level as specified in the Temperature Dependency Data under Part A12.2, and Rated Minimum Active Power output level.



**Figure A12.3.3.1: Example Reactive Power Capability required to meet the Minimum Generator Performance Standard**

57.23 Clause A12.3.3.3 of Part A12.3 of Appendix 12 is amended by deleting the words 'Non-Scheduled Generators' and replacing them with the words 'Transmission Connected Generating Systems containing Intermittent Generating Systems'.

57.24 Clause A12.4.1.1 of Part A12.4 of Appendix 12 is deleted and replaced with the following:

A12.4.1.1. In relation to the application of this Technical Requirement, the requirements apply at the Connection Point unless otherwise specified in the relevant clause, or the Network Operator or AEMO determines that the Technical Requirement must be measured at a different location for the particular Generating Unit or Generating System, in which case the measurement location must be recorded as part of the relevant Generator Performance Standard.

57.25 Insert the following new clause A12.4.1.2 in Part A12.4 of Appendix 12:

A12.4.1.2. In relation to the application of this Technical Requirement, unless otherwise specified in the relevant clause, the requirements apply when operating at any Active Power and Reactive Power level as permitted or required under the other Technical Requirements in this Appendix, and at all temperatures up to and including the Maximum Temperature.

57.26 Clause A12.4.2.5 of Part A12.4 of Appendix 12 is deleted and replaced with the following:

A12.4.2.5. A Generating System must have a voltage Control System that:

- (a) regulates voltage to within 0.5% of the Target Setpoint, where that setpoint may be adjusted to incorporate any voltage droop or reactive current compensation agreed with AEMO and the Network Operator;



- (b) regulates voltage in a manner that helps to support network voltages during faults and does not prevent the requirements for voltage performance and stability in the Technical Rules from being achieved;
- (c) allows the voltage to be continuously controllable in the range of at least 95% to 105% of the target voltage (as determined by the Network Operator), without reliance on a Tap-Changing Transformer and subject to the Generator Performance Standards for Reactive Power Capability with the voltage control location agreed with AEMO and the Network Operator; and
- (d) has limiting devices to ensure that a voltage disturbance does not cause a Generating Unit to trip at the limits of its operating capability. The Generating System must be capable of continuous stable operation while under the control of any limiter. Limiters must not detract from the performance of any stabilising circuits and must have settings applied which are coordinated with all Protection Systems.

57.27 Clause A12.4.2.7 of Part A12.4 of Appendix 12 is deleted and replaced with the following:

A12.4.2.7. A Reactive Power, including a Power Factor, Control System must:

- (a) regulate Reactive Power or Power Factor (as applicable) to within:
  - (i) for a Generating System operating in Reactive Power mode, 2% of the Rated Maximum Apparent Power of the Generating System from the Target Setpoint; or
  - (ii) for a Generating System operating in Power Factor mode, a Power Factor equivalent to 2% of the Rated Maximum Apparent Power of the Generating System from the Target Setpoint; and
- (b) allow the Reactive Power or Power Factor Target Setpoint to be continuously controllable across the Reactive Power Capability range specified in the relevant Generator Performance Standard.

57.28 Clause A12.4.2.10(a) of Part A12.4 of Appendix 12 is deleted and replaced with the following:

- (a) is capable of operating the stator continuously at 105% of nominal voltage when operating at the maximum Active Power output specified in the Temperature Dependency Data provided under Part A12.2 for the relevant temperature;

57.29 Clause A12.4.2.10(b) of Part A12.4 of Appendix 12 is deleted and replaced with the following:

- (b) has an excitation ceiling voltage of at least:
  - (i) for a Static Excitation System, 2.3 times; or
  - (ii) for other Excitation Control Systems, 1.5 times,
 the excitation required to achieve generation at the rated output, rated speed and nominal voltage in accordance with the relevant Australian Standard or ISO Standard for Synchronous Generating Units. The details regarding which relevant Australian

Standard or ISO Standard applies is documented in the guidelines published by the Network Operator under clause 3A.4.4;

57.30 Clause A12.4.3.4 of Part A12.4 of Appendix 12 is deleted and replaced with the following:

A12.4.3.4. A voltage Control System for a Generating System must:

- (a) regulate voltage to within 2% of the Target Setpoint, where that setpoint may be adjusted to incorporate any voltage droop or reactive current compensation agreed with AEMO and the Network Operator; and
- (b) allow the voltage Target Setpoint to be controllable in the range of at least 98% to 102% of the target voltage (as determined by the Network Operator), subject to the Reactive Power Capability agreed with AEMO and the Network Operator under Part A12.3 of this Appendix 12.

57.31 Clause A12.4.3.5(a) of Part A12.4 of Appendix 12 is deleted and replaced with the following:

- (a) regulate Reactive Power or Power Factor (as applicable) to within:
  - (i) for a Generating System operating in Reactive Power mode, 5% of the Rated Maximum Apparent Power of the Generating System from the Target Setpoint; or
  - (ii) for a Generating System operating in Power Factor mode, a Power Factor equivalent to 5% of the Rated Maximum Apparent Power of the Generating System from the Target Setpoint;

57.32 Clause A12.4.3.5(b) of Part A12.4 of Appendix 12 is amended by deleting the word 'setpoint' and replacing it with the words 'Target Setpoint'.

57.33 Clause A12.4.3.6 of Part A12.4 of Appendix 12 is deleted and replaced with the following:

A12.4.3.6. Each Synchronous Generating Unit within the Generating System, with an Excitation Control System required to regulate voltage must:

- (a) have excitation ceiling voltage of at least 1.5 times the excitation required to achieve generation at the rated output, rated speed and nominal voltage in accordance with the relevant Australian Standard or ISO Standard for Synchronous Generating Units. The details regarding which relevant Australian Standard or ISO Standard applies is documented in the guidelines published by the Network Operator under clause 3A.4.4; and
- (b) subject to the ceiling voltage requirement, have a Settling Time of less than 7.5 seconds for a 5% voltage disturbance with the Generating Unit synchronised, subject to the Generating Unit operating at a point where such a voltage disturbance would not cause any limiting device to operate.

57.34 Clause A12.5.1.5 of Part A12.5 of Appendix 12 is amended by inserting the words 'where dispatched by AEMO' immediately after the words 'Network Operator,'.

57.35 Insert the following new clause A12.5.1.7 in Part A12.5 of Appendix 12:

A12.5.1.7. In relation to the application of this Technical Requirement, unless otherwise specified in the relevant clause, the requirements apply when operating at any Active Power and Reactive Power level as permitted or required under the other Technical Requirements in this Appendix, and at all temperatures up to and including the Maximum Temperature.

57.36 Clause A12.5.2.1 of Part A12.5 of Appendix 12 is deleted and replaced with the following:

A12.5.2.1. A Non-Intermittent Generating System within a Transmission Connected Generating System must have an Active Power Control System capable of:

- (a) maintaining and changing its Active Power output in accordance with Target Setpoints;
- (b) ramping its Active Power output linearly from one Target Setpoint to another; and
- (c) in a thermally stable state, changing Active Power output in response to a change in Target Setpoint at a rate not less than 5% of its Rated Maximum Active Power per minute.

57.37 Clause A12.5.2.2 of Part A12.5 of Appendix 12 is deleted and replaced with the following:

A12.5.2.2. Subject to energy source availability, an Intermittent Generating System within a Transmission Connected Generating System must be able to change its Active Power output in accordance with Target Setpoints, and must not change its Active Power output at a rate greater than 10 MW per minute or 15% of the Rated Maximum Active Power per minute, whichever is the lower or as agreed with the Network Operator and AEMO.

57.38 Insert the following new clause A12.5.2.3 in Part A12.5 of Appendix 12:

A12.5.2.3. A Transmission Connected Generating System must be able to meet the Dispatch Systems Requirements.

57.39 Clause A12.5.3.1 of Part A12.5 of Appendix 12 is deleted and replaced with the following:

A12.5.3.1. A Non-Intermittent Generating System within a Transmission Connected Generating System must have an Active Power Control System capable of maintaining and changing its Active Power output in accordance with a Target Setpoint, and must be capable of changing Active Power generation at a rate not less than 5% of its Rated Maximum Active Power per minute.

57.40 Clause A12.5.3.2 of Part A12.5 of Appendix 12 is deleted and replaced with the following:

A12.5.3.2. Subject to energy source availability, an Intermittent Generating System within a Transmission Connected Generating System must ensure that any change of Active Power output in a 5 minute period does not exceed a value agreed with AEMO and the Network Operator.

57.41 Clause A12.6.1.5 of Part A12.6 of Appendix 12 is amended by deleting the words 'must adhere to relevant requirements of A12.5 when returning to regular Active Power output' and replacing them with the words 'must adhere to relevant requirements of Part A12.5 when returning to regular Active Power output (subject to any agreements under clause A12.6.1.6)'.

57.42 Clause A12.6.1.10 of Part A12.6 of Appendix 12 is deleted and replaced with the following:

A12.6.1.10. Unless otherwise stated in this Part A12.6, the overall required frequency response of each Generating Unit, or Generating System, as applicable, must be settable and be capable of:

- (a) automatically achieving an increase in Active Power output proportional to a change in power system frequency of not less than 5% of the maximum Active Power specified in the Temperature Dependency Data provided under Part A12.2 for each 0.1 Hz reduction in power system frequency from the lower level of Frequency Dead Band, provided the output is above the Rated Minimum Active Power; and
- (b) automatically achieving a reduction in Active Power output proportional to a change in power system frequency of not less than 5% of the maximum Active Power specified in the Temperature Dependency Data provided under Part A12.2 for each 0.1 Hz increase in power system frequency from the upper level of Frequency Dead Band, provided this does not require operation below the Rated Minimum Active Power.

57.43 Insert the following new clause A12.6.1.12 in Part A12.6 of Appendix 12:

A12.6.1.12. In relation to the application of this Technical Requirement, the requirements apply at the Connection Point unless otherwise specified in the relevant clause, or the Network Operator or AEMO determines that the Technical Requirement must be measured at a different location for the particular Generating Unit or Generating System, in which case the measurement location must be recorded as part of the relevant Generator Performance Standard.

57.44 Insert the following new clause A12.6.1.13 in Part A12.6 of Appendix 12:

A12.6.1.13. In relation to the application of this Technical Requirement, unless otherwise specified in the relevant clause, the requirements apply when operating at any Active Power and Reactive Power level as permitted or required under the other Technical Requirements in this Appendix, and at all temperatures up to and including the Maximum Temperature.

57.45 Clause A12.6.2.1(a) of Part A12.6 of Appendix 12 is deleted and replaced with the following:

- (a) the required frequency response in clause A12.6.1.10(a) can be complied with for any initial output up to the maximum Active Power specified in the Temperature Dependency Data provided under Part A12.2 for the relevant temperature;

- 57.46 Clause A12.6.2.1(b) of Part A12.6 of Appendix 12 is amended by deleting the words 'Maximum Rated Active Power' and replacing them with the words 'Rated Maximum Active Power'.
- 57.47 Clause A12.6.2.1(c) of Part A12.6 of Appendix 12 is amended by deleting the words 'Maximum Rated Active Power' and replacing them with the words 'Rated Maximum Active Power'.
- 57.48 Clause A12.6.3.2(c) of Part A12.6 of Appendix 12 is amended by deleting the words 'Maximum Rated Active Power' and replacing them with the words 'Rated Maximum Active Power'.
- 57.49 Clause A12.6.3.2(d) of Part A12.6 of Appendix 12 is amended by deleting the words 'Maximum Rated Active Power' and replacing them with the words 'Rated Maximum Active Power'.
- 57.50 Clause A12.6.4.1(b) of Part A12.6 of Appendix 12 is deleted and replaced with the following:
- (b) above the relevant maximum Active Power output specified in the Temperature Dependency Data provided under Part A12.2 for the relevant temperature, in response to a fall in the frequency of the SWIS as measured at the Connection Point; or
- 57.51 Clause A12.7.1.1 of Part A12.7 of Appendix 12 is deleted and replaced with the following:
- A12.7.1.1. In relation to the application of this Technical Requirement, the requirements apply at the Connection Point unless otherwise specified in the relevant clause, or the Network Operator or AEMO determines that the Technical Requirement must be measured at a different location for the particular Generating Unit or Generating System, in which case the measurement location must be recorded as part of the relevant Generator Performance Standard.
- 57.52 Insert the following new clause A12.7.1.4 in Part A12.7 of Appendix 12:
- A12.7.1.4. In relation to the application of this Technical Requirement, unless otherwise specified in the relevant clause, the requirements apply when operating at any Active Power and Reactive Power level as permitted or required under the other Technical Requirements in this Appendix.
- 57.53 Clause A12.8.1.1 of Part A12.8 of Appendix 12 is deleted and replaced with the following:
- A12.8.1.1. In relation to the application of this Technical Requirement, the requirements apply at the Connection Point unless otherwise specified in the relevant clause, or the Network Operator or AEMO determines that the Technical Requirement must be measured at a different location for the particular Generating Unit or Generating System, in which case the measurement location must be recorded as part of the relevant Generator Performance Standard.

57.54 Insert the following new clause A12.8.1.4 in Part A12.8 of Appendix 12:

A12.8.1.4. In relation to the application of this Technical Requirement, unless otherwise specified in the relevant clause, the requirements apply when operating at any Active Power and Reactive Power level as permitted or required under the other Technical Requirements in this Appendix.

57.55 Clause A12.9.1.1 of Part A12.9 of Appendix 12 is deleted and replaced with the following:

A12.9.1.1. The Common Requirements for disturbance ride through for multiple disturbances as they apply to different Generating Systems, is specified in Table A12.9.1.1:

Type of Generating System	Relevant requirement
Generating System comprised solely of Synchronous Generating Units.	Clause A12.9.1.3, clause A12.9.1.2, clause A12.9.1.4, clause A12.9.1.5, clause A12.9.1.7 and clause A12.9.1.8.
Generating System comprised solely of Asynchronous Generating Units.	Clause A12.9.1.3, clause A12.9.1.2, clause A12.9.1.4, clause A12.9.1.6, clause A12.9.1.7 and clause A12.9.1.8.
Generating System comprised of Synchronous Generating Units and Asynchronous Generating Units.	Clause A12.9.1.3, clause A12.9.1.2, clause A12.9.1.4, clause A12.9.1.7, clause A12.9.1.8 and: (a) for that part of the Generating System comprised of Synchronous Generating Units, clause A12.9.1.5; (b) for that part of the Generating System comprised of Asynchronous Generating Units, clause A12.9.1.6.

**Table A12.9.1.1: Common Requirements for Disturbance Ride through for Multiple Disturbances**

57.56 Insert the heading '*All Generating Systems*' immediately above clause A12.9.1.2 in Part A12.9 of Appendix 12.

57.57 Delete the heading '*All Generating Systems*' immediately above clause A12.9.1.3 in Part A12.9 of Appendix 12.

57.58 Clause A12.9.1.5 of Part A12.9 of Appendix 12 is amended by deleting the words 'as measured at the Connection Point or another location in the SWIS (including within the Generating System), as specified by the Network Operator,'.

57.59 Clause A12.9.1.6(a) of Part A12.9 of Appendix 12 is amended by deleting the words 'as measured at the Connection Point'.

57.60 Clause A12.9.1.6(b) of Part A12.9 of Appendix 12 is deleted and replaced with the following:

(b) [Blank]

57.61 Insert the following new clause A12.9.1.7 and heading in Part A12.9 of Appendix 12:

*Measurement location and temperature limitations*

A12.9.1.7. In relation to the application of this Technical Requirement, the requirements apply at the Connection Point unless otherwise specified in the relevant clause, or the Network Operator or AEMO determines that the Technical Requirement must be measured at a different location for the particular Generating Unit or Generating System, in which case the measurement location must be recorded as part of the relevant Generator Performance Standard.

57.62 Insert the following new clause A12.9.1.8 in Part A12.9 of Appendix 12:

A12.9.1.8. In relation to the application of this Technical Requirement, unless otherwise specified in the relevant clause, the requirements apply when operating at any Active Power and Reactive Power level as permitted or required under the other Technical Requirements in this Appendix, and the Market Participant responsible for the Transmission Connected Generating System must specify any thermal limitations that may limit the output of the Generating System or Generating Unit in relation to this Technical Requirement.

57.63 Clause A12.9.2.5(a)(i) of Part A12.9 of Appendix 12 is amended by inserting the words 'a specified threshold level within' immediately after the words 'for each 1% reduction of voltage at the Connection Point below'.

57.64 Clause A12.9.2.5(a)(ii) of Part A12.9 of Appendix 12 is amended by inserting the words 'above a specified threshold level within' immediately after the words 'for each 1% increase of voltage at the Connection Point'.

57.65 Clause A12.9.2.8 of Part A12.9 of Appendix 12 is amended by inserting the words 'as specified in clause A12.9.1.8' immediately after the words 'Subject to a Generating System's thermal limitations'.

57.66 Clause A12.9.2.8(a) of Part A12.9 of Appendix 12 is deleted and replaced with the following:

- (a) sufficient current to maintain rated output in accordance with the relevant Australian Standard or ISO Standard for Asynchronous Generating Units of the Generating System including all operating Generating Units (in the absence of a disturbance), for all Connection Point voltages above 115% (or otherwise, above the agreed over-voltage range). The details regarding which relevant Australian Standard or ISO Standard applies is documented in the guidelines published by the Network Operator under clause 3A.4.4; and

57.67 Clause A12.9.3.5 of Part A12.9 of Appendix 12 is amended by inserting the words 'a Generating System's thermal limitations as specified in clause A12.9.1.8 and' immediately after the words 'Subject to'.

- 57.68 Clause A12.9.3.5(a)(i) of Part A12.9 of Appendix 12 is amended by inserting the words 'a specified threshold level agreed by the Network Operator and AEMO within' immediately after the words 'for each 1% reduction of voltage at the Connection Point below'.
- 57.69 Clause A12.9.3.5(a)(ii) of Part A12.9 of Appendix 12 is amended by inserting the words 'a specified threshold level agreed by the Network Operator and AEMO within' immediately after the words 'for each 1% increase of voltage at the Connection Point above'.
- 57.70 Clause A12.10.1.1 of Part A12.10 of Appendix 12 is deleted and replaced with the following:
- A12.10.1.1. In relation to the application of this Technical Requirement, the requirements apply at the Connection Point unless otherwise specified in the relevant clause, or the Network Operator or AEMO determines that the Technical Requirement must be measured at a different location for the particular Generating Unit or Generating System, in which case the measurement location must be recorded as part of the relevant Generator Performance Standard.
- 57.71 Insert the following new clause A12.10.1.2 in Part A12.10 of Appendix 12:
- A12.10.1.2. In relation to the application of this Technical Requirement, unless otherwise specified in the relevant clause, the requirements apply when operating at any Active Power and Reactive Power level as permitted or required under the other Technical Requirements in this Appendix, and at all temperatures up to and including the Maximum Temperature.
- 57.72 Clause A12.10.2.1 of Part A12.10 of Appendix 12 is deleted and replaced with the following:
- A12.10.2.1. A Generating System and each of its operating Generating Units must be capable of Continuous Uninterrupted Operation during and following a sudden reduction in Active Power generation as a result of a Contingency Event, provided that the reduction is less than 30% of the Generating System's Rated Maximum Active Power and the Active Power generation remains above the Generating System's Rated Minimum Active Power output level.
- 57.73 Clause A12.10.3.1 of Part A12.10 of Appendix 12 is deleted and replaced with the following:
- A12.10.3.1. A Generating System must be capable of Continuous Uninterrupted Operation during and following a sudden reduction in Active Power generation as a result of a Contingency Event, provided that the reduction is less than 5% of the Generating System's Rated Maximum Active Power and the Active Power generation remains above the Generating System's Rated Minimum Active Power output level.
- 57.74 Clause A12.12.2.1(b) of Part A12.12 of Appendix 12 is amended by deleting the words 'the emission limits specified in AS 1359.101 and IEC 60034-1 or'.
- 57.75 Clause A12.12.3.1(b) of Part A12.12 of Appendix 12 is amended by deleting the words 'the emission limits specified in AS 1359.101 and IEC 60034-1 or'.



## **Schedule B**

### **1. Section 3A.1 amended**

#### **1.1 Insert the following new clause 3A.1.6:**

- 3A.1.6. In developing, amending or replacing a guideline in accordance with clauses 3A.1.5, 3A.4.4 or 3A.13.2, AEMO or the Network Operator, as applicable, must:
- (a) publish, together with the proposed guideline, or the amendment or replacement of it, as applicable, a call for submissions, and the closing date for submissions must not be less than 15 Business Days from the date the proposed or revised guideline is published; and
  - (b) publish, together with the final guideline, a summary of the submissions received and the response of AEMO or the Network Operator, as applicable, to the issues raised in those submissions.

## **Schedule C**

### **1. Section 4.10 amended**

- 1.1 Clause 4.10.1(f)(vi) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 1.2 Clause 4.10.1(f)(vii) is deleted and replaced with the following:
- vii. [Blank]

## **Schedule D**

### **1. Section 4.11 amended**

- 1.1 Clause 4.11.1(a) is amended by deleting the words 'from the Trading Day starting 1 October in Year 3 of the Reserve Capacity Cycle to the end of July in Year 4' and replacing them with the words 'from the start of the Trading Day starting on 1 October of Year 3 of the Reserve Capacity Cycle to the end of the Trading Day starting on 31 July of Year 4'.
- 1.2 Clause 4.11.1(j) is deleted and replaced with the following:
- (j) the Certified Reserve Capacity for a Demand Side Programme for a Reserve Capacity Cycle must only consist of Associated Loads at the same Transmission Node, and must not exceed AEMO's reasonable expectation of the amount of capacity likely to be available from the Facility during the periods specified in clause 4.10.1(f)(vi), after netting off capacity required to serve Minimum Consumption for each of the Facility's Associated Loads, from the start of the Trading Day starting on 1 October of Year 3 of the Reserve Capacity Cycle to the end of the Trading Day starting on 31 July of Year 4 of the Reserve Capacity Cycle; and
- 1.3 Clause 4.11.3A is deleted and replaced with the following:

4.11.3A. AEMO must:

- (a) determine in Year 1 of a Reserve Capacity Cycle the Trading Intervals in each Trading Day that are classified as Electric Storage Resource Obligation Intervals from 1 October of Year 3 of the Reserve Capacity Cycle, and:
  - i. where changes are proposed to the Electric Storage Resource Obligation Intervals last published under this clause 4.11.3A(a), consult with Market Participants on the proposed changes, and publish the Electric Storage Resource Obligation Intervals on the WEM Website by 31 July of Year 1 of the Reserve Capacity Cycle; and
  - ii. where no changes are proposed to the Electric Storage Resource Obligation Intervals last published under this clause 4.11.3A(a), publish the Electric Storage Resource Obligation Intervals on the WEM Website (which may be published in the Statement of Opportunities Report) by the date specified in clause 4.1.8;
- (b) only amend the Trading Intervals classified as Electric Storage Resource Obligation Intervals and published in accordance with clause 4.11.3A(a) as permitted under these WEM Rules; and
- (c) document the following in a WEM Procedure:
  - i. the processes to be followed by AEMO for determining changes to the Trading Intervals that will be classified as Electric Storage Resource Obligation Intervals under clause 4.11.3A(a), including the processes to be followed by AEMO to comply with its obligation to consult with Market Participants;
  - ii. the processes to be followed by AEMO for publishing the Trading Intervals classified as Electric Storage Resource Obligation Intervals in accordance with clause 4.11.3A(a) on the WEM Website; and
  - iii. the circumstances, if any, that allow AEMO to determine, in accordance with clause 6.3.1 and without consultation with Market Participants, that the Trading Intervals classified as Electric Storage Resource Obligation Intervals for a specific Trading Day are not the Electric Storage Resource Obligation Intervals published by AEMO under clause 4.11.3A(a).

## **Schedule E**

### **1. Section 1.7 amended**

1.1 Clause 1.7.1 is deleted and replaced with the following:

1.7.1. Where AEMO is required by these WEM Rules to publish a document or information, then AEMO must make that document or information available on the WEM Website, in a place which is publicly accessible.

1.2 Clause 1.7.3 is deleted and replaced with the following:

1.7.3. Where the Economic Regulation Authority is required by these WEM Rules to publish a document or information, then the Economic Regulation Authority must make that document or information available on its website, in a place which is publicly accessible.

1.3 Clause 1.7.3A is deleted and replaced with the following:

1.7.3A. Where the Coordinator is required by these WEM Rules to publish a document or information, the Coordinator must make that document or information available on the Coordinator's Website, in a place which is publicly accessible.

1.4 Clause 1.7.4 is deleted and replaced with the following:

1.7.4. Where a Network Operator (in respect to any WEM Procedures the Network Operator is required to develop and maintain under these WEM Rules) is required by these WEM Rules to publish a document or information, then:

- (a) the Network Operator must make that document or information available on its website, in a place that is publicly accessible; and
- (b) if these WEM Rules require that document or information to be published on the WEM Website:
  - i. the Network Operator must promptly notify AEMO when the document or information is published on the Network Operator's website;
  - ii. AEMO must, at a minimum, promptly publish a link to the area of the Network Operator's website where the document or information is published on the WEM Website; and
  - iii. the Network Operator is deemed to have published the document or information once the Network Operator has published the document or information on its own website, and has notified AEMO.

### **2. Section 2.8 amended**

2.1 Clause 2.8.13 is deleted and replaced with the following:

2.8.13. The following clauses are Protected Provisions:

- (a) clauses 1.1.1, 1.1.2, 1.2.1, 1.4.1, 1.4.2, 1.6.2, 1.7.3A, 1.8.1, 1.8.3, 1.8.4, 1.28.1 to 1.28.3, 1.28.5, 1.28.6, 1.42.2, 1.42.3, 1.42.5 to 1.42.7, 1.42.9, 1.42.10, 1.42.28, 1.43A.2, 1.43A.4 to 1.43A.6;
- (b) clauses 2.2D.1, 2.3.1, 2.3.2 to 2.3.5A, 2.3.6, 2.3.7A to 2.3.11, 2.3.13, 2.3.16, 2.4.1 to 2.4.4, 2.5.1C, 2.5.2 to 2.5.3A, 2.5.4 to 2.5.15, 2.6.1, 2.6.3, 2.6.4, 2.7.2 to 2.7.4, 2.7.6 to 2.7.8, 2.8.1 to 2.8.14, 2.9.2CB, 2.9.2F, 2.9.4, 2.9.5, 2.9.7C, 2.10.1, 2.10.2A, 2.10.3, 2.10.5E, 2.10.7, 2.10.10, 2.10.12E, 2.10.13, 2.10.17 to 2.10.20, 2.11.1 to 2.11.4, 2.16.2A, 2.16.2D, 2.16.2E, 2.16.6, 2.16.7, 2.16.13A, 2.16.13B, 2.16.13D to 2.16.14, 2.16.15A, 2.21.11, 2.21.12, 2.24.5B to 2.24.5E, 2.24.6A, 2.25.1C, 2.44.1;
- (c) clauses 3.11A.1 to 3.11A.10, 3.15.1 to 3.15.5, 3.18GA.1 to 3.18GA.3;
- (d) clauses 4.5A1 to 4.5A16, 4.13B.1 to 4.13B.6, 4.24.19;
- (e) clauses 10.1.1, 10.2.1, 10.2.1B, 10.2.3, 10.2.6, 10.2.8 to 10.2.12, 10.3.1 to 10.3.4, 10.4.1, 10.4.2, 10.4.5, 10.4.7 to 10.4.11, 10.4.14 to 10.4.26, 10.5.1 to 10.5.14 ; and
- (f) any other clauses of these WEM Rules that must not be amended, repealed or replaced without the approval of the Minister in accordance with the WEM Regulations.

### **3. Section 2.13 amended**

3.1 Clause 2.13.6 is deleted and replaced with the following:

2.13.6 Where the Economic Regulation Authority requests AEMO to provide the Economic Regulation Authority with market related data, information or documents in accordance with clause 2.13.4 and the market related data, information or documents:

- (a) is not one of the types disclosed in the combined list referred to in clause 2.16.2A(b); and
  - (b) relate to a specific Rule Participant (or group of Rule Participants),
- then the Economic Regulation Authority must notify that Rule Participant (or group of Rule Participants).

3.2 Clause 2.13.7 is deleted and replaced with the following:

2.13.7. AEMO must, in accordance with the WEM Procedure referred to in clause 2.15.4:

- (a) monitor Rule Participant's behaviour for compliance with the WEM Rules specified in the list referred to in clause 2.16.2A(aA);
- (b) [Blank]

- (c) ensure it has processes and systems in place to enable it to monitor Rule Participant's behaviour in accordance with clause 2.13.7(a) and in accordance with the list of WEM Rules that AEMO must monitor for compliance provided under clause 2.16.2A(aA) including developing systems for monitoring;
  - (d) support the Economic Regulation Authority's monitoring of Rule Participants' behaviour, including having processes and systems to provide the Economic Regulation Authority with data, information, documents or analysis under clauses 2.13.4, 2.13.7, 2.13.8(a), 2.13.8(b) or 2.13.14, as applicable; and
  - (e) subject to clause 2.13.12, record and report to the Economic Regulation Authority any alleged breach of the WEM Rules or WEM Procedures resulting from its monitoring under clause 2.13.7(a).
- 3.3 Clause 2.13.15A is amended by deleting the words 'Clauses 2.13.13 14' and replacing them with the words 'Clauses 2.13.13, 2.13.14'.
- 3.4 Clause 2.13.52 is amended by deleting the words 'the provisions for reporting information in section 10.2' and replacing them with the words 'sections 10.2, 10.4 and 10.5'.
- 4. Section 2.14 amended**
  - 4.1 Clause 2.14.10 is amended by deleting the words 'clause 2.14.5B or 2.14.6' and replacing them with the words 'clauses 2.14.5C or 2.14.8'.
  - 4.2 Delete clause 2.15.7.
  - 4.3 Delete clause 2.15.8.
  - 4.4 Delete clause 2.15.9.
- 5. Section 2.16 amended**
  - 5.1 Clause 2.16.9(a) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 6. Section 2.18 amended**
  - 6.1 Clause 2.18.1(b) is amended by inserting the word 'or' after the semi-colon at the end of the clause.
  - 6.2 Clause 2.18.1(h)(ii) is amended by deleting the word 'or' after the semi-colon at the end of the clause.
  - 6.3 Clause 2.18.1(i) is amended by deleting the full stop at the end of the clause and replacing it with the word '; or'.
  - 6.4 Insert the following new clause 2.18.1(j):

- (j) disputes about the classification, release or disclosure of Market Information arising under Chapter 10.

**7. Section 2.22A amended**

- 7.1 Clause 2.22A.2A(d) is amended by inserting the word 'the' immediately after the words 'clause 2.22A.2B(c),'

**8. Section 2.24 amended**

- 8.1 Clause 2.24.1(a) is deleted and replaced with the following:

- (a) Market Participant Market Fees, Market Participant Coordinator Fees and Market Participant Regulator Fees the rates of which are determined in accordance with this section 2.24;

- 8.2 Clause 2.24.2 is deleted and replaced with the following:

2.24.2. Before 30 June each year, AEMO must determine and publish the level of:

- (a) the Market Participant Market Fee rate;
- (b) the Market Participant Coordinator Fee rate;
- (c) the Market Participant Regulator Fee rate;
- (d) each Application Fee; and
- (e) the Reassessment Fee,

to apply over the year starting 1 July in accordance with:

- (f) AEMO's budget published under clause 2.22A.7;
- (g) information provided by the Economic Regulation Authority to AEMO under clause 2.24.6 (if any); and
- (h) information provided by the Coordinator to AEMO under clause 2.24.6A (if any).

Where the Economic Regulation Authority has not provided AEMO with the information under, and by the time specified in clause 2.24.6, AEMO must determine and publish the expected level of Market Participant Regulator Fee rate based on the most recent information provided to AEMO by the Economic Regulation Authority under clause 2.24.6. Where the Coordinator has not provided AEMO with the information under, and by the time specified in, clause 2.24.6A, AEMO must determine and publish the expected level of Market Participant Coordinator Fee rate based on the most recent information provided to AEMO by the Coordinator under clause 2.24.6A.

- 8.3 Clause 2.24.2A is deleted and replaced with the following:

2.24.2A. AEMO must determine and publish a level of revised Market Participant Coordinator Fee rate or Market Participant Regulator Fee rate (as applicable), within five Business Days of:

- (a) receiving the information under clause 2.24.6A from the Coordinator after the timeframe specified in that clause; or
- (b) receiving the information under clause 2.24.6 from the Economic Regulation Authority after the timeframe specified in that clause.

8.4 Clause 2.24.2B is deleted and replaced with the following:

2.24.2B. A revised Market Participant Coordinator Fee rate and Market Participant Regulator Fee rate will supersede any expected Market Participant Coordinator Fee rate and Market Participant Regulator Fee rate and are recoverable from Market Participants in arrears with effect from the start of the Financial Year to which they apply.

8.5 Clause 2.24.3 is deleted and replaced with the following:

2.24.3. At the same time as AEMO publishes a level of revised Market Participant Market Fee rate, Market Participant Coordinator Fee rate or Market Participant Regulator Fee rate (as applicable), AEMO must also publish an estimate of the total amount of revenue to be earned from:

(a) Market Participant Market Fees collected for AEMO's:

- i. market operation services;
- ii. system planning services;
- iii. market administration services; and
- iv. system management services,

where the amounts to be earned for each service is equal to the relevant costs in AEMO's budget published in accordance with clause 2.22A.7 or as adjusted under clause 2.24.2A;

(b) Market Participant Coordinator Fees collected for:

- i. the Coordinator's functions under these WEM Rules;
- ii. the costs associated with the remuneration and other expenses for the independent Chair of the Market Advisory Committee; and
- iii. in the Coordinator's discretion, costs associated with the remuneration and other expenses of the representatives of small-use consumers on the Market Advisory Committee,

where the amount to be earned for those services is equivalent to the costs identified by the Coordinator as costs incurred in the performance of the Coordinator's functions under these WEM Rules or the WEM Regulations, where the amount must be consistent with the relevant amount notified to AEMO in accordance with clause 2.24.6A; and

- (c) Market Participant Regulator Fees collected for the Economic Regulation Authority's monitoring, compliance, enforcement and regulation services where the amount must be consistent with the relevant amount notified to AEMO in accordance with clause 2.24.6.

- 8.6 Clause 2.24.4 is amended by inserting the words ', Market Participant Coordinator Fee rate' immediately after the words 'The Market Participant Market Fee rate'.
- 8.7 Clause 2.24.5 is amended by deleting the words 'these WEM Rules, the WEM Regulations and the Panel Regulations' and replacing them with the words 'these WEM Rules and the WEM Regulations'.
- 8.8 Clause 2.24.5A is amended by inserting a full stop immediately after the clause number so that it reads '2.24.5A.'.
- 8.9 Clause 2.24.5B is deleted and replaced with the following:
  - 2.24.5B. The Coordinator may recover a portion of her or his budget determined by the Minister responsible for the Coordinator which corresponds to the costs of the Coordinator in undertaking her or his functions under these WEM Rules (including costs referred to in clause 2.24.3(b)) from the collection of Market Participant Coordinator Fees under these WEM Rules.
- 8.10 Clause 2.24.5C(a) is deleted and replaced with the following:
  - (a) identify in her or his budget the proportion of her or his costs that relate to the performance of her or his functions under these WEM Rules; and
- 8.11 Clause 2.24.5D is amended by inserting the words 'Market Participant' immediately before the words 'Coordinator Fees'.

## **9. Section 2.25 amended**

- 9.1 Clause 2.25.1 is amended by:
  - (a) inserting the words ', Market Participant Coordinator Fees' immediately after the words 'Market Participant Market Fees'; and
  - (b) deleting the word 'clause' and replacing it with the word 'section'.
- 9.2 Clause 2.25.1A is amended by inserting the words 'Market Participant Coordinator Fees and' immediately after the words 'AEMO is an agent for the collection of'.
- 9.3 Insert the following new clause 2.25.1C:



- 2.25.1C. The Coordinator must, if requested by AEMO, use reasonable endeavours to cooperate with AEMO, as AEMO endeavours to give effect to clause 2.25.1A.
- 9.4 Clause 2.25.2 is amended by inserting the words ', Market Participant Coordinator Fees' immediately after the words 'Market Participant Market Fees'.
- 9.5 Clause 2.25.3 is deleted and replaced with the following:
- 2.25.3. Following receipt of a payment contemplated by clause 2.25.2, AEMO must:
- (a) transfer to the fund established under clause 9.18.9 the payment received as calculated in clause 9.13.2;
  - (b) pay the Economic Regulation Authority the payment received as calculated in clause 9.13.3; and
  - (c) pay the Coordinator the payment received as calculated in clause 9.13.4.
- 10. Section 2.27 amended**
- 10.1 Clause 2.27.5A is amended by deleting the words 'Demand Side Programme and'.
- 10.2 Clause 2.27.15 is amended by deleting the words 'Scheduled Generator, Non-Scheduled Generator, Interruptible Load' and replacing them with the words 'Scheduled Facility, Semi-Scheduled Facility, Non-Scheduled Facility'.
- 10.3 Clause 2.27.17 is deleted and replaced with the following:
- 2.27.17. Each Network Operator must document in a WEM Procedure the standards, methodologies, classification systems and procedures to be used in determining Loss Factors.
- 11. Section 2.28 amended**
- 11.1 Clause 2.28.5 is deleted and replaced with the following:
- 2.28.5. Subject to clause 2.28.16, a person registered as a Network Operator may be registered as a Rule Participant in another class or other classes.
- 11.2 Clause 2.28.16 is amended by inserting a comma immediately after the word '2.28.7'.
- 11.3 Clause 2.28.16A(a) is amended by:
- (a) deleting the words 'A person' and replacing them with the words 'a person'; and
  - (b) deleting the word 'must' and replacing it with the word 'may'.
- 11.4 Clause 2.28.16A(a)(i) is amended by inserting the word 'and' immediately after the semi-colon at the end of the clause.
- 11.5 Clause 2.28.16A(b) is amended by deleting the words 'If an application' and replacing them with the words 'if an application'.

- 11.6 Clause 2.28.16A(b)(viii) is amended by deleting the full stop at the end of the clause and replacing it with a semi-colon.
- 11.7 Clause 2.28.16A(c) is amended by:
- (a) deleting the words 'For the purposes' and replacing them with the words 'for the purposes'; and
  - (b) deleting the full stop at the end of the clause and replacing it with a semi-colon.
- 11.8 Clause 2.28.16A(d) is deleted and replaced with the following:
- (d) the Applicant may revoke the appointment of the Intermediary by giving notice of the revocation to AEMO and, prior to giving such notice to AEMO:
    - i. where the Applicant wishes to appoint a replacement Intermediary:
      - 1. providing the notices referred to in clauses 2.28.16A(a)(i) and 2.28.16A(a)(ii) to AEMO;
      - 2. obtaining AEMO's consent to be exempted from registration in accordance with clause 2.28.16;
      - 3. ensuring that all relevant Registered Facilities or Intermittent Loads that were registered to the current Intermediary have been transferred to the replacement Intermediary; and
      - 4. ensuring that the replacement Intermediary has notified AEMO of the change of circumstances for Credit Limit determination purposes in accordance with clause 2.37.8; or
    - ii. where clause 2.28.16A(d)(i) does not apply:
      - 1. registering as a Rule Participant in the Market Participant class;
      - 2. ensuring that all relevant Registered Facilities or Intermittent Loads that were registered to the current Intermediary have been transferred to the Applicant; and
      - 3. notifying AEMO of the change of circumstances for Credit Limit determination purposes in accordance with clause 2.37.8;
- 11.9 Clause 2.28.16A(e) is amended by:
- (a) deleting the words 'At 8:00 AM' and replacing them with the words 'at 8:00 AM'; and
  - (b) deleting the full stop at the end of the clause and replacing it with a semi-colon.
- 11.10 Clause 2.28.16A(f) is amended by:
- (a) deleting the words 'If the Applicant' and replacing them with the words 'if the Applicant'; and

- (b) deleting the full stop at the end of the clause and replacing it with the word '; and'.
- 11.11 Clause 2.28.16B is amended by deleting the words 'Market Generator' and replacing them with the words 'Market Participant'.
- 11.12 Clause 2.28.16B(d) is amended by deleting the words 'The meter' and replacing them with the words 'the meter'.
- 11.13 Clause 2.28.21(b) is amended by deleting the words 'Market Participant' and replacing them with the word 'person'.
- 12. Section 2.29 amended**
- 12.1 Clause 2.29.4B is amended by deleting the words 'clause 2.28.21' and replacing them with the words 'clause 2.29.4N'.
- 12.2 Clause 2.29.4D is amended by deleting the words 'clause 2.28.21' and replacing them with the words 'clause 2.29.4N'.
- 12.3 Clause 2.29.4K(a) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 12.4 Clause 2.29.4N(e) is amended by inserting the words 'and the provision of data to AEMO' immediately after the words 'Intermittent Loads'.
- 13. Section 2.30 amended**
- 13.1 Clause 2.30.8 is amended by deleting the word 'acility' and replacing it with the word 'Facility'.
- 13.2 Delete clause 2.30.11.
- 14. Section 2.30A amended**
- 14.1 Insert the following new section 2.30A:
  - 2.30A. [Blank]**
- 15. Section 2.30B amended**
- 15.1 Section 2.30B is amended by inserting a full stop immediately after the section number so that it reads '2.30B.'.
- 15.2 Clause 2.30B.3(g) is amended by deleting the words 'clause 2.28.21' and replacing them with the words 'clause 2.29.4N'.
- 15.3 Clause 2.30B.3(i) is amended by deleting the words 'Appendix 1(f)(vii)' and replacing them with the words 'Appendix 1(g)(ii)'.
- 15.4 Clause 2.30B.7 is amended by deleting the word 'Week' and replacing it with the word 'Month'.
- 15.5 Clause 2.30B.8F is amended by:
  - (a) inserting the word 'continuous' immediately after the words 'Dispatch Intervals in any';
  - and

- (b) deleting the words 'to reflect the maximum Injection'.
- 15.6 Clause 2.30B.10(a) is amended by deleting the word 'Define' and replacing it with the word 'define'.
- 15.7 Clause 2.30B.10(a)(iv) is amended by deleting the semi-colon at the end of the clause.
- 15.8 Clause 2.30B.10(a)(v) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 15.9 Clause 2.30B.10(b)(i)(1) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 15.10 Clause 2.30B.10(b)(ii)(1) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 15.11 Clause 2.30B.10(b)(ii)(2) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 15.12 Clause 2.30B.10(b)(iii)(1) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 15.13 Clause 2.30B.10(b)(iii)(2) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 15.14 Clause 2.30B.10(c)(i)(2) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 15.15 Clause 2.30B.10(c)(ii)(2) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 15.16 Clause 2.30B.10(c)(iii)(2) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 15.17 Clause 2.30B.10(c)(iii)(3) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 15.18 Clause 2.30B.10(c)(iv)(2) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 15.19 Clause 2.30B.11(a)(ii) is amended by inserting the word 'and' after the semi-colon at the end of the clause.

**16. Section 2.31 amended**

- 16.1 Insert the following new clause 2.31.4A:

2.31.4A. If AEMO requests information from an applicant under clause 2.31.4 and the applicant does not provide the information to AEMO within 20 Business Days of the date of AEMO's request, the applicant will be deemed to have withdrawn the application.

- 16.2 Clause 2.31.6 is deleted and replaced with the following:
- 2.31.6. If AEMO determines that a test required by these WEM Rules or a WEM Procedure must be conducted in order for AEMO to accept or reject an application for Facility registration, AEMO must notify the applicant within 15 Business Days from the date of notification of receipt of the application of:
- (a) the dates on which any required tests may be held;
  - (b) the date by when results of any required tests must be made available to AEMO; and
  - (c) the date by when AEMO expects to accept or reject the application, being no later than 10 Business Days after the date in clause 2.31.6(b).
- 16.3 Clause 2.31.10(a) is amended by inserting the words 'where AEMO has determined that a test must be conducted in order for AEMO to accept or reject the application' immediately after the words 'Facility registration'.
- 16.4 Clause 2.31.17 is amended by deleting the words 'in any Rule Participant class' and replacing them with the words 'as a Rule Participant'.
- 17. Section 2.32 amended**
- 17.1 Clause 2.32.7A is amended by deleting the words 'clauses 2.28.1(b) or 2.28.2(b)' and replacing them with the words 'clauses 2.28.1(a) or 2.28.1(b)'.
- 17.2 Clause 2.32.7BA is amended by deleting the words 'If AEMO becomes aware that a Rule Participant has become an externally-administered body corporate' and replacing them with the words 'If AEMO becomes aware that a Rule Participant has become a Chapter 5 body corporate'.
- 17.3 Clause 2.32.7BA(a) is amended by deleting the words 'externally-administered body corporate' and replacing them with the words 'Chapter 5 body corporate'.
- 17.4 Clause 2.32.7BA(b) is amended by deleting the words 'externally-administered body corporate' and replacing them with the words 'Chapter 5 body corporate'.
- 17.5 Clause 2.32.7BA(c) is amended by deleting the words 'an externally-administered body corporate' and replacing them with the words 'a Chapter 5 body corporate'.
- 18 Section 2.33 amended**
- 18.1 Clause 2.33.1(h) is deleted and replaced with the following:
- (h) if the application relates to the sale of electricity to Contestable Customers by an applicant for the Market Participant class, evidence that the applicant holds an Arrangement for Access for the purpose of taking power from the electricity grid;
- 18.2 Clause 2.33.8(d) is deleted and replaced with the following:

- (d) evidence to AEMO's satisfaction that the Registered Facility meets the conditions specified in clause 2.29.6;

**19 Section 2.34 amended**

- 19.1 Clause 2.34.3 is amended by deleting the words ', other than Standing Data changed in accordance with the processes set out in sections 6.2A or 6.3C,'.
- 19.2 Clause 2.34.4 is amended by deleting the words 'either a Planned Outage, proposed Planned Outage or Forced Outage' and replacing them with the words 'an Outage'.
- 19.3 Clause 2.34.7 is amended by deleting the words 'may reject a change'.
- 19.4 Clause 2.34.7(a) is amended by:
  - (a) inserting the words 'may reject a change' immediately before the words 'in any Standing Data'; and
  - (b) deleting the word 'or' after the semi-colon at the end of the clause and replacing it with the word 'and'.
- 19.5 Clause 2.34.7(b) is amended by inserting the words 'must reject a change' immediately before the words 'where the Standing Data'.
- 19.6 Clause 2.34.8 is amended by deleting the words 'Other than Standing Data changed in accordance with the processes set out in sections 6.2A or 6.3C,'.
- 19.7 Clause 2.34.11 is deleted and replaced with the following:

2.34.11. AEMO may require that a Rule Participant provide updated Standing Data for any of its Facilities if AEMO considers the information provided by the Rule Participant to be inaccurate or no longer accurate.
- 19.8 Clause 2.34.12B is amended by deleting the words 'pursuant to clauses 2.29.4B or 2.29.4C,'.
- 19.9 Clause 2.34.14 is deleted and replaced with the following:

2.34.14. Revised Standing Data that is accepted by AEMO takes effect from 8:00 AM on the later of:

  - (a) the date proposed by the Rule Participant; or
  - (b) the second day after the day on which AEMO accepts the revised Standing Data.
- 19.10 Delete clause 2.34.15.

**20. Section 2.34A amended**

- 20.1 Clause 2.34A.6(d)(i) is amended by deleting the word 'and' after the semi-colon at the end of the clause.

20.2 Clause 2.34A.6(d)(ii) is amended by inserting the word 'and' after the semi-colon at the end of the clause.

20.3 Insert the following new clause 2.34A.6(d)(iii):

- iii. where the Facility is an Interruptible Load, the Restoration Profile of the Interruptible Load if applicable;

**21. Section 2.34B added**

21.1 Insert the following new section 2.34B:

**2.34B. Rule Participant Data**

2.34B.1. AEMO must publish details of all Rule Participants, including:

- (a) name;
- (b) contact details;
- (c) the name and title of a contact person;
- (d) applicable Rule Participant classes;
- (e) names and System Sizes of Registered Facilities; and
- (f) names of Intermittent Loads and the associated maximum capacity from the Energy Producing Systems which supply them, as described in clause 2.30B.3(a).

**22. Section 2.35 amended**

22.1 Clause 2.35.1 is amended by deleting the words 'Semi-scheduled' and replacing them with the words 'Semi-Scheduled'.

**23. Section 2.36 amended**

23.1 Insert the following new clause 2.36.5A:

2.36.5A. AEMO must publish documentation of the functionality of:

- (a) the STEM Auction software; and
- (b) the Settlement System Software.

**24. Section 3.2 amended**

24.1 Insert the following new clause 3.2.6:

3.2.6. AEMO must establish and modify the Technical Envelope in accordance with clause 3.2.5 and the WEM Procedure specified in clause 3.2.7.

**25. Section 3.4 amended**

25.1 Clause 3.4.1 is deleted and replaced with the following:

- 3.4.1. The SWIS is in a Satisfactory Operating State when the SWIS is operating in accordance with all relevant requirements of the Technical Envelope.
- 25.2 Clause 3.4.2 is deleted and replaced with the following:
- 3.4.2. The SWIS is in a Secure Operating State when the SWIS is able to return to a Satisfactory Operating State following a Credible Contingency Event in accordance with the Power System Security Principles and the requirements of the Technical Envelope.
- 25.3 Clause 3.4.3 is deleted and replaced with the following:
- 3.4.3. The Power System Security Principles are:
- (a) the power system should be operated such that it is and will remain in a Secure Operating State to the extent practicable;
  - (b) following a Contingency Event, AEMO should take all reasonable actions to return to a Secure Operating State as soon as possible, and in any case within 30 minutes, other than during a Low Reserve Condition or when in an Emergency Operating State;
  - (c) sufficient Inertia should be available to meet applicable Inertia Requirements; and
  - (d) sufficient capability should be maintained at applicable locations in the SWIS to meet the applicable Power System Stability Requirements, including any System Strength Requirements.
- 25.4 Clause 3.4.4 is deleted and replaced with the following:
- 3.4.4. In order to restore and maintain Power System Security or Power System Reliability, AEMO may, in addition to the provisions specified in Chapter 7:
- (a) reject Planned Outages that have not yet commenced;
  - (b) issue Outage Recall Directions;
  - (c) utilise the overload capacity of Scheduled Facilities (as indicated in Standing Data);
  - (d) direct Facilities to adjust output or operate in a particular way, in accordance with the Registered Generator Performance Standards applicable to the Facility;
  - (e) direct a Network Operator, in which case AEMO must first consult with the relevant Network Operator, to operate network equipment, or equipment under a Network Operator's control or direction, in specific ways; or



- (f) direct a Network Operator, in which case AEMO must first consult with the relevant Network Operator, to disconnect generating equipment, load and/or other equipment connected to the Network Operator's network.

25.5 Clause 3.4.5 is deleted and replaced with the following:

- 3.4.5. AEMO may take any other actions it considers are required, consistent with good electricity industry practice, in order to maintain Power System Security or Power System Reliability, having regard to the provisions specified in Chapter 7.

25.6 Insert the following new clause 3.4.5A:

- 3.4.5A. Where AEMO issues a direction under clauses 3.4.4(d), 3.4.4(e) or 3.4.4(f) or takes any other action under clause 3.4.5, AEMO must record:
  - (a) the date and time of the direction or action;
  - (b) the name of the Registered Facility or relevant equipment impacted by the direction or action;
  - (c) the nature of the direction or action; and
  - (d) the reasons for the direction or action.

25.7 Clause 3.4.6 is deleted and replaced with the following:

- 3.4.6. Rule Participants must:
  - (a) subject to clause 3.4.7, comply with directions issued by AEMO in accordance with clause 3.4.4; and
  - (b) use reasonable endeavours to assist AEMO to ensure the SWIS remains in a Satisfactory Operating State or Secure Operating State, including providing information and coordinating with AEMO on directions as required by AEMO.

25.8 Clause 3.4.7 is deleted and replaced with the following:

- 3.4.7. A Rule Participant is not required to comply with a direction issued by AEMO, in accordance with clause 3.4.4, if such compliance would endanger the safety of any person, damage equipment, or breach any applicable law.

25.9 Clause 3.4.8 is deleted and replaced with the following:

- 3.4.8. Where a Rule Participant cannot comply with a direction issued by AEMO in accordance with clause 3.4.4 it must notify AEMO immediately and provide the reasons why it cannot comply with the direction.

25.10 Delete clause 3.4.9.

## **26. Section 3.5 amended**

26.1 Clause 3.5.5(c) is amended by deleting the words 'to a Satisfactory Operating State, Secure Operating State or Reliable Operating State' and replacing them with the words 'from the Emergency Operating State'.

26.2 Clause 3.5.6 is amended by deleting the words 'to a Satisfactory Operating State'.

26.3 Clause 3.5.8(b) is amended by deleting the words 'to a Satisfactory Operating State' and replacing them with the words 'from the Emergency Operating State'.

**27. Section 3.7 amended**

27.1 Clause 3.7.19 is amended by deleting the words 'are AEMO Confidential. Notwithstanding the AEMO Confidential classification' and replacing them with the words 'are Confidential Information. Notwithstanding this classification'.

**28. Section 3.11A amended**

28.1 Clause 3.11A.2 is amended by deleting the words 'Where AEMO or a Network Operator reasonably considers that one or more of the following events has occurred or applies, the Network Operator or AEMO (or, at their discretion, both of them), must make a submission (jointly or separately) to request the Coordinator to determine whether or not to trigger an NCESS procurement process in accordance with section 3.11B:' and replacing them with the words 'If AEMO or a Network Operator reasonably considers that one or more of the following events has occurred or applies:'.

28.2 Clause 3.11A.2(e) is deleted and replaced with the following:

- (e) AEMO considers, in the course of its normal power system operations, that a significant threat to Power System Security or Power System Reliability exists or is emerging, and the existing mechanisms under these WEM Rules may not be sufficient to address the threat,

then:

- (f) AEMO must notify the relevant Network Operator, or the Network Operator must notify AEMO (as applicable), of each event that AEMO or the Network Operator (as applicable) considers has occurred or applies, as soon as practicable but in any event before making a submission under clause 3.11A.2(g); and
- (g) AEMO or the relevant Network Operator (or, at their discretion, both of them) must make a submission (jointly or separately) to request the Coordinator to determine whether to trigger an NCESS procurement process in accordance with section 3.11B.

28.3 Clause 3.11A.3(b) is amended by inserting the words 'the Network Operator or AEMO, as applicable, reasonably considers' immediately after the words 'be made by a date that'.

**29. Section 3.11B amended**

- 29.1 Clause 3.11B.5(e) is amended by deleting the word 'timing' and replacing it with the words 'expected commencement'.
- 29.2 Insert the following new clause 3.11B.5(eA):
- (eA) reasonable expectation of the frequency of service utilisation, the expected duration of each utilisation and when the service is expected to be utilised during typical days;
- 29.3 Clause 3.11B.7(a) is deleted and replaced with the following:
- (a) the name and type of facility or equipment, and whether it is registered or intended to be registered under these WEM Rules;
- 29.4 Clause 3.11B.7(h) is amended by deleting the word 'Market' and replacing it with the word 'WEM'.
- 29.5 Insert the following new clause 3.11B.7(iA):
- (iA) if the facility or equipment would ordinarily be capable of being assigned Certified Reserve Capacity, whether the Market Participant or service provider would require any reimbursement for any reduction in a Reserve Capacity settlement amount determined for it under clause 9.8.2 that is a direct consequence of the enablement or dispatch of the NCESS;

**30. Section 3.15 amended**

- 30.1 Clause 3.15.1C(b) is amended by inserting the word 'Equation' immediately after the words 'Oscillation Control Constraint'.
- 30.2 Clause 3.15.5 is amended by deleting the words 'Economic Regulation Authority' and replacing them with the word 'Coordinator'.

**31. Section 3.15A amended**

- 31.1 Clause 3.15A.21(c) is amended by deleting the words 'Availability Payment' and replacing them with the words 'SESSM Availability Payment'.
- 31.2 Clause 3.15A.22(a) is amended by deleting the words 'Availability Quantity' and replacing them with the words 'SESSM Availability Quantity'.
- 31.3 Clause 3.15A.35(a) is amended by deleting the word '2.13.10(d);' and replacing it with the words '2.13.36(a); and'.
- 31.4 Clause 3.15A.37 is amended by deleting the words 'Rule Participant Market Restricted' and replacing them with the words 'Confidential Information'.

**32. Section 3.15B amended**

- 32.1 Clause 3.15B.4(d) is amended by deleting the words 'clauses 10.5.1(y) and 10.5.1(z)' and replacing them with the words 'clause 7.13.1I'.

32.2 Clause 3.15B.7 is amended by deleting the words 'Rule Participant Market Restricted' and replacing them with the words 'Confidential Information'.

32.3 Clause 3.15B.9 is amended by deleting the words 'in a review under clauses 3.15.1A or 3.15.1B or'.

**33. Section 3.17 amended**

33.1 Clause 3.17.10 is deleted and replaced with the following:

3.17.10. Any information provided by a Rule Participant in response to a request under clause 3.17.8 is Confidential Information.

**34. Section 3.18 amended**

34.1 Clause 3.18.1 is amended by deleting the words 'Self-scheduling' and replacing them with the words 'Self-Scheduling'.

34.2 Clause 3.18.3(a)(i) is amended by deleting the words 'or a component of the Outage Facility'.

34.3 Clause 3.18.3(c) is deleted and replaced with the following:

(c) does not occur for an Outage Capability in respect of energy of a Semi-Scheduled Facility or Non-Scheduled Facility that contains an Intermittent Generating System where:

- i. there is a shortfall of the intermittent energy source used by the Intermittent Generating System to generate electricity; or
- ii. the average reduction of Remaining Available Capacity over the relevant Dispatch Interval is less than:

$$\min (0.1 \times \text{Nameplate\_Capacity}, 10)$$

where Nameplate\_Capacity is the total nameplate capacity of the Facility's Energy Producing System specified under Appendix 1(c)(i) or Appendix 1(d)(i), as applicable;

34.4 Clause 3.18.3(d) is amended by deleting the word 'Scheduled' in each place where it occurs.

34.5 Clause 3.18.4(h) is amended by inserting the words ', which must include the information in clauses 3.22.1, 3.22.1A and 3.22.2' immediately after the words 'publication of Outage-related information'.

**35. Section 3.18A amended**

35.1 The section 3.18A heading '**Equipment List and Self-scheduling Outage Facilities**' is deleted and replaced with the following:

**Equipment List and Self-Scheduling Outage Facilities**

35.2 Clause 3.18A.6 is amended by:

- (a) deleting the words 'Self-scheduling' and replacing them with the words 'Self-Scheduling' in the first place where they occur; and
  - (b) deleting the words '**Self-scheduling**' and replacing them with the words '**Self-Scheduling**' in the second place where they occur.
- 35.3 Clause 3.18A.7 is amended by deleting the words 'Self-scheduling' and replacing them with the words 'Self-Scheduling' in each place where they occur.
- 35.4 Clause 3.18A.8 is amended by deleting the words 'Self-scheduling' and replacing them with the words 'Self-Scheduling'.
- 35.5 Clause 3.18A.9 is amended by deleting the words 'Self-scheduling' and replacing them with the words 'Self-Scheduling' in each place where they occur.
- 35.6 Clause 3.18A.10 is amended by:
- (a) inserting the word 'must' immediately after the words 'Network Operator'; and
  - (b) deleting the words 'Self-scheduling' and replacing them with the words 'Self-Scheduling'.
- 36. Section 3.18B amended**
- 36.1 Clause 3.18B.1(b) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 36.2 Clause 3.18B.2 is amended by deleting the words 'Self-scheduling' and replacing them with the words 'Self-Scheduling'.
- 36.3 Clause 3.18B.3 is deleted and replaced with the following:
- 3.18B.3. An Outage Plan must contain:
- (a) details of the Outage Plan including:
    - i. the Outage Facility affected by the Outage and, where relevant, each Facility Technology Type of the Facility affected by the Outage;
    - ii. the Outage Capabilities affected by the Outage for the Outage Facility and for each Facility Technology Type of the Outage Facility;
    - iii. a description of the purpose of the Outage;
    - iv. the Outage Commencement Interval and Outage Completion Interval;
    - v. an Outage Contingency Plan;
    - vi. where relevant, the Remaining Available Capacity of each Outage Capability for the Outage Facility;

- vii. where relevant, the Remaining Available Capacity for each Facility Technology Type for the Outage Facility;
  - viii. where relevant, the Outage Return To Service Commencement Interval and Outage Return To Service Completion Interval for each Outage Return To Service Period; and
  - ix. confirmation of any applicable Availability Declaration Exemption, as specified in the WEM Procedure referred to in clause 3.18.4;
- (b) an Outage First Submission Date; and
  - (c) any other details specified in the WEM Procedure referred to in clause 3.18.4.

36.4 Clause 3.18B.8(a) is amended by:

- (a) deleting the words 'Self-scheduling' and replacing them with the words 'Self-Scheduling'; and
- (b) deleting the word 'and' after the semi-colon at the end of the clause.

36.5 Clause 3.18B.8(b)(i) is amended by:

- (a) deleting the words 'Self-scheduling' and replacing them with the words 'Self-Scheduling'; and
- (b) deleting the word 'and' after the semi-colon at the end of the clause.

36.6 Clause 3.18B.8(b)(iii) is amended by deleting the word 'and' after the semi-colon at the end of the clause.

36.7 Clause 3.18B.8(c)(i) is amended by deleting the words 'Self-scheduling' and replacing them with the words 'Self-Scheduling'.

36.8 Clause 3.18B.8(d) is deleted and replaced with the following:

- (d) no earlier than 3 years prior to the day on which the Outage Commencement Interval falls.

### **37. Section 3.18C amended**

37.1 Clause 3.18C.4 is amended by deleting the words 'or Impacted Participant, or both,'.

37.2 Clause 3.18C.11 is deleted and replaced with the following:

3.18C.11. [Blank]

37.3 Clause 3.18C.12(c)(i) is amended by deleting the words 'approved Outage Plans' and replacing them with the words 'Planned Outages'.

### **38. Section 3.18D amended**

38.1 Clause 3.18D.1(b) is deleted and replaced with the following:

- (b) the revised Outage Completion Interval is not later than the previous Outage Completion Interval;
- 38.2 Clause 3.18D.1(c) is deleted and replaced with the following:
  - (c) any revised Remaining Available Capacity for the Outage Facility, as relevant, is not proposed to be further reduced from the previous submission; and
- 38.3 Clause 3.18D.1(d) is amended by deleting the words 'Outage Plan' and replacing them with the words 'Planned Outage'.
- 38.4 Clause 3.18D.2 is amended by inserting the words 'that has not been rejected by AEMO or withdrawn by the Rule Participant' immediately after the words 'An Outage Plan'.
- 38.5 Clause 3.18D.3(b) is deleted and replaced with the following:
  - (b) any relevant Remaining Available Capacity for the Outage Facility is proposed to be increased from the previous submission; or
- 38.6 Clause 3.18D.9(a) is amended by deleting the words 'increase the' and replacing them with the words 'increase any relevant'.
- 39. Section 3.18E amended**
- 39.1 Clause 3.18E.1(a) is amended by inserting the words 'or revised' immediately after the word 'submitted'.
- 39.2 Clause 3.18E.3 is amended by deleting the words 'Self-scheduling' and replacing them with the words 'Self-Scheduling'.
- 39.3 Clause 3.18E.4 is amended by deleting the words 'Self-scheduling' and replacing them with the words 'Self-Scheduling'.
- 39.4 Clauses 3.18E.10(d), 3.18E.10(e) and 3.18E.10(f) are deleted and replaced with the following:
  - (d) give priority to Outage Plans in the order of the Outage First Submission Date, subject to reviewing the impact of a changed Outage Period on other Outage Plans that have been submitted; and
  - (e) consider:
    - i. the technical reasons for the Outage Facility Maintenance;
    - ii. the technical implications for the relevant equipment if the Outage Facility Maintenance is not carried out; and
    - iii. the ability to reschedule Outage Plans including considering the Remaining Available Capacity, as relevant, for the relevant Outage Capability over the Outage Period.
- 39.5 Clause 3.18E.11 is amended by deleting the words 'Self-scheduling' and replacing them with the words 'Self-Scheduling' in each place where they occur.

39.6 Clause 3.18E.13 is deleted and replaced with the following:

3.18E.13. Where AEMO rejects an Outage Plan in accordance with this section 3.18E, AEMO must provide reasons to the Rule Participant that submitted the Outage Plan.

**40. Section 3.19 amended**

40.1 Clause 3.19.3 is amended by deleting the words 'Self-scheduling' and replacing them with the words 'Self-Scheduling'.

40.2 Clause 3.19.4 is amended by deleting the words 'Self-scheduling' and replacing them with the words 'Self-Scheduling'.

40.3 Clause 3.19.8 is amended by deleting the words 'clause 3.19.1, 3.19.2 or clause 3.19.8' and replacing them with the words 'clauses 3.19.1, 3.19.2 or 3.19.9'.

**41. Section 3.20 amended**

41.1 Clause 3.20.1 is amended by deleting the words 'reject a Planned Outage that has commenced, and' and replacing them with the words ', during the Outage Period for a Planned Outage,'.

41.2 Clause 3.20.2 is amended by deleting the words 'or withdraw the Outage Plan'.

**42. Section 3.21 amended**

42.1 The section 3.21 heading '**Forced Outages**' is deleted and replaced with the following:

**Forced Outages and Outage Quantity Calculations**

42.2 Clause 3.21.1(a)(i) is amended by deleting the word '2.28.3C' and replacing it with the word '2.28.3B'.

42.3 Clause 3.21.1(b) is deleted and replaced with the following:

(b) any Dispatch Intervals of an Outage that commence prior to its approved Outage Commencement Interval, or extend beyond its approved Outage Completion Interval; and

42.4 Clause 3.21.2(a) is deleted and replaced with the following:

- (a) notify AEMO in accordance with the WEM Procedure referred to in clause 3.21.10 as soon as practicable of:
- i. the Outage Facility affected by the Outage and, where relevant, each Facility Technology Type of the Outage Facility affected by the Outage;
  - ii. the Outage Capabilities affected by the Outage for the Outage Facility and for each Facility Technology Type of the Outage Facility;
  - iii. the cause of the Outage;



- iv. the date and time the Outage commenced or is expected to commence;
- v. the date and time the Outage ended or is expected to end;
- vi. where relevant, an estimate of the Remaining Available Capacity of each Outage Capability for the Outage Facility;
- vii. where relevant, an estimate of the Remaining Available Capacity for each Facility Technology Type of the Outage Facility; and
- viii. any other details specified in the WEM Procedure referred to in clause 3.21.10;

42.5 Clause 3.21.2(b) is deleted and replaced with the following:

- (b) provide AEMO with full available details of the Forced Outage referred to in clause 3.21.2(a), as well as the time that the information required in clause 3.21.2(a) was first notified to AEMO, in accordance with the WEM Procedure referred to in clause 3.21.10:
  - i. as soon as practicable;
  - ii. using best endeavours to provide AEMO with the full available details within 24 hours of the Forced Outage occurring; and
  - iii. in all cases no later than the end of the next Business Day of the Forced Outage occurring;

42.6 Clause 3.21.6 is deleted and replaced with the following:

3.21.6. The Outage Quantity for a Planned Outage or Forced Outage o of a Separately Certified Component c of a Registered Facility that is a Non-Intermittent Generating System or Electric Storage Resource for a Dispatch Interval DI that is included in Planned Outage or Forced Outage o is:

$$Q(c,DI,o) = \text{PrevRAC}(c,DI,o) - \text{RAC}(c,DI,o)$$

where:

- (a)  $\text{PrevRAC}(c,DI,o)$  is equal to:
  - i.  $\text{MaxCap}(c,DI)$ , if Planned Outage or Forced Outage o was the first relevant outage to be submitted; or
  - ii. otherwise, the applicable Remaining Available Capacity for the relevant outage that was submitted most recently prior to the submission time of Planned Outage or Forced Outage o,

where relevant outage means a Planned Outage or Forced Outage for energy for Separately Certified Component c that includes Dispatch Interval DI;

- (b)  $RAC(c, DI, o)$  is the applicable Remaining Available Capacity for Planned Outage or Forced Outage  $o$ ;
- (c)  $MaxCap(c, DI)$  is:
  - i. if Separately Certified Component  $c$  is a Non-Intermittent Generating System, the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from the Non-Intermittent Generating System under optimal conditions, as specified under Appendix 1(b)(x) or Appendix 1(c)(x) as applicable; or
  - ii. if Separately Certified Component  $c$  is an Electric Storage Resource, the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply across the Electric Storage Resource Obligation Duration to the relevant Network from the Electric Storage Resource under optimal conditions, as specified under Appendix 1(b)(xii) or Appendix 1(c)(xii) as applicable; and
- (d) the applicable Remaining Available Capacity for a Planned Outage or Forced Outage is the Remaining Available Capacity under the Planned Outage or Forced Outage for Separately Certified Component  $c$  in Dispatch Interval  $DI$  for the applicable energy Outage Capability, which is:
  - i. if Separately Certified Component  $c$  is a Non-Intermittent Generating System, sent out capacity, net of embedded and Parasitic Loads, available for supply to the relevant Network from the Non-Intermittent Generating System; or
  - ii. if Separately Certified Component  $c$  is an Electric Storage Resource, sent out capacity, net of embedded and Parasitic Loads, available for supply across the Electric Storage Resource Obligation Duration to the relevant Network from the Electric Storage Resource.

42.7 Clause 3.21.7 is deleted and replaced with the following:

3.21.7. The Capacity Adjusted Forced Outage Quantity for Dispatch Interval  $DI$  for Separately Certified Component  $c$  of a Registered Facility is:

- (a) where Separately Certified Component  $c$  is an Intermittent Generating System:  

$$CAFO(c, DI) = 0$$
- (b) otherwise:

$$CAFO(c, DI) =$$

$$\max\left(0, \sum_{o \in FO} Q(c, DI, o) - (MaxCap(c, DI) - DefRCOQ(c, DI))\right)$$

where:

- i.  $o \in FO$  denotes all Forced Outages  $o$  for Separately Certified Component  $c$  that include Dispatch Interval  $DI$ ;
- ii.  $Q(c, DI, o)$  is the Outage Quantity for Outage  $o$  of Separately Certified Component  $c$  in Dispatch Interval  $DI$  as calculated in clause 3.21.6;
- iii.  $MaxCap(c, DI)$  is:
  1. if Separately Certified Component  $c$  is a Non-Intermittent Generating System, the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from the Non-Intermittent Generating System under optimal conditions, as specified under Appendix 1(b)(x) or Appendix 1(c)(x) as applicable; or
  2. if Separately Certified Component  $c$  is an Electric Storage Resource, the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply across the Electric Storage Resource Obligation Duration to the relevant Network from the Electric Storage Resource under optimal conditions, as specified under Appendix 1(b)(xii) or Appendix 1(c)(xii) as applicable; and
- iv.  $DefRCOQ(c, DI)$  is the Reserve Capacity Obligation Quantity that would apply to Separately Certified Component  $c$  in Dispatch Interval  $DI$  if the Separately Certified Component was not subject to an Outage or an approved Commissioning Test Plan.

42.8 Clause 3.21.7A is deleted and replaced with the following:

3.21.7A. The Capacity Adjusted Forced Outage Quantity for Trading Interval  $t$  for Separately Certified Component  $c$  of a Registered Facility is:

$$CAFO(c, t) = \frac{\sum_{DI \in t} CAFO(c, DI)}{6}$$

where:

- (a)  $DI \in t$  denotes all Dispatch Intervals  $DI$  in Trading Interval  $t$ ; and

- (b)  $CAFO(c, DI)$  is the Capacity Adjusted Forced Outage Quantity for Separately Certified Component  $c$  in Dispatch Interval  $DI$  as calculated in clause 3.21.7.

42.9 Clause 3.21.7B is deleted and replaced with the following:

3.21.7B. The Capacity Adjusted Forced Outage Quantity for Trading Interval  $t$  for Registered Facility  $f$  is:

- (a) where no Capacity Credits are assigned to Registered Facility  $f$  in Trading Interval  $t$  or Registered Facility  $f$  is a Non-Scheduled Facility:

$$CAFO(f, t) = 0$$

- (b) otherwise:

$$CAFO(f, t) = \sum_{c \in f} CAFO(c, t)$$

where:

- i.  $c \in f$  denotes all Separately Certified Components  $c$  of Facility  $f$ ; and
- ii.  $CAFO(c, t)$  is the Capacity Adjusted Forced Outage Quantity for Separately Certified Component  $c$  in Trading Interval  $t$  as calculated in clause 3.21.7A.

42.10 Clause 3.21.7C is deleted and replaced with the following:

3.21.7C. The Capacity Adjusted Forced Outage Quantity for Dispatch Interval  $DI$  for Registered Facility  $f$  is:

- (a) where no Capacity Credits are assigned to Registered Facility  $f$  in Dispatch Interval  $DI$  or Registered Facility  $f$  is a Non-Scheduled Facility:

$$CAFO(f, DI) = 0$$

- (b) otherwise:

$$CAFO(f, DI) = \sum_{c \in f} CAFO(c, DI)$$

where:

- i.  $c \in f$  denotes all Separately Certified Components  $c$  of Facility  $f$ ; and
- ii.  $CAFO(c, DI)$  is the Capacity Adjusted Forced Outage Quantity for Separately Certified Component  $c$  in Dispatch Interval  $DI$  as calculated in clause 3.21.7.

42.11 Clause 3.21.8 is deleted and replaced with the following:

3.21.8. The Capacity Adjusted Planned Outage Quantity for Dispatch Interval DI for Separately Certified Component c of a Registered Facility is:

(a) where Separately Certified Component c is an Intermittent Generating System:

$$CAPO(c, DI) = 0$$

(b) otherwise:

$$CAPO(c, DI) = \max \left( 0, \sum_{o \in PO} Q(c, DI, o) - \max \left( 0, \text{MaxCap}(c, DI) - \text{DefRCOQ}(c, DI) - \sum_{o \in FO} Q(c, DI, o) \right) \right)$$

where:

- i.  $o \in PO$  denotes all Planned Outages o for Separately Certified Component c that include Dispatch Interval DI;
- ii.  $o \in FO$  denotes all Forced Outages o for Separately Certified Component c that include Dispatch Interval DI;
- iii.  $Q(c, DI, o)$  is the Outage Quantity for Outage o of Separately Certified Component c in Dispatch Interval DI as calculated in clause 3.21.6;
- iv.  $\text{MaxCap}(c, DI)$  is:
  1. if Separately Certified Component c is a Non-Intermittent Generating System, the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from the Non-Intermittent Generating System under optimal conditions, as specified under Appendix 1(b)(x) or Appendix 1(c)(x) as applicable; or
  2. if Separately Certified Component c is an Electric Storage Resource, the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply across the Electric Storage Resource Obligation Duration to the relevant Network from the Electric Storage Resource under optimal conditions, as specified under Appendix 1(b)(xii) or Appendix 1(c)(xii) as applicable; and
- v.  $\text{DefRCOQ}(c, DI)$  is the Reserve Capacity Obligation Quantity that would apply to Separately Certified Component c in Dispatch

Interval DI if the Separately Certified Component was not subject to an Outage or an approved Commissioning Test Plan.

42.12 Clause 3.21.8A is deleted and replaced with the following:

3.21.8A. The Capacity Adjusted Planned Outage Quantity for Trading Interval t for Separately Certified Component c of a Registered Facility is:

$$CAPO(c, t) = \frac{\sum_{DI \in t} CAPO(c, DI)}{6}$$

where:

- (a)  $DI \in t$  denotes all Dispatch Intervals DI in Trading Interval t; and
- (b)  $CAPO(c, DI)$  is the Capacity Adjusted Planned Outage Quantity for Separately Certified Component c in Dispatch Interval DI as calculated in clause 3.21.8.

42.13 Clause 3.21.8B is deleted and replaced with the following:

3.21.8B. The Capacity Adjusted Planned Outage Quantity for Trading Interval t for Registered Facility f is:

- (a) where no Capacity Credits are assigned to Registered Facility f in Trading Interval t or Registered Facility f is a Non-Scheduled Facility:

$$CAPO(f, t) = 0$$

- (b) otherwise:

$$CAPO(f, t) = \sum_{c \in f} CAPO(c, t)$$

where:

- i.  $c \in f$  denotes all Separately Certified Components c of Facility f; and
- ii.  $CAPO(c, t)$  is the Capacity Adjusted Planned Outage Quantity for Separately Certified Component c in Trading Interval t as calculated in clause 3.21.8A.

42.14 Insert the following new clause 3.21.8C:

3.21.8C. The Capacity Adjusted Planned Outage Quantity for Dispatch Interval DI for Registered Facility f is:

- (a) where no Capacity Credits are assigned to Registered Facility f in Dispatch Interval DI or Registered Facility f is a Non-Scheduled Facility:

$$CAPO(f, DI) = 0$$

- (b) otherwise:

$$CAPO(f, DI) = \sum_{c \in f} CAPO(c, DI)$$

where:

- i.  $c \in f$  denotes all Separately Certified Components  $c$  of Facility  $f$ ;  
and
- ii.  $CAPO(c, DI)$  is the Capacity Adjusted Planned Outage Quantity for Separately Certified Component  $c$  in Dispatch Interval  $DI$  as calculated in clause 3.21.8.

42.15 Clause 3.21.9 is deleted and replaced with the following:

3.21.9. [Blank]

**43. Section 3.22 amended**

43.1 The heading immediately above section 3.22 'Settlement Data' is deleted and replaced with the following:

**Outage Data Publication**

43.2 Clause 3.22.1 is deleted and replaced with the following:

3.22.1. AEMO must as soon as practicable after AEMO receives an Outage Plan submission, or a change is made to an existing Outage Plan for an Equipment List Facility in its Outage computer system, publish the following details on the WEM Website:

- (a) whether the submission or change is for Opportunistic Maintenance or not;
- (b) the status of the Outage;
- (c) the description of the Outage;
- (d) the Outage First Submission Date, Outage Commencement Interval and Outage Completion Interval;
- (e) the equipment impacted by the Outage, including, where relevant, the Facility name and Facility Technology Types for that Facility impacted by the Outage;
- (f) summary details of the Contingency Plan;
- (g) the Outage Return To Service Commencement Interval and Outage Return To Service Completion Interval for each Outage Return To Service Period listed in the Outage Plan;
- (h) whether the Outage has been subject to an Outage Recall Direction;
- (i) whether the Outage has been identified as at risk of rejection by AEMO;

- (j) the date and time when:
  - i. the Outage Plan was received by AEMO or was subsequently revised by the Rule Participant responsible for the Outage Plan; or
  - ii. any amendment to the Outage status occurred;
- (k) each Outage Capability impacted by the Outage and any associated Remaining Available Capacity quantities for the Outage Facility or the Facility Technology Types of the Outage Facility; and
- (l) any other information specified in the WEM Procedure referred to in clause 3.18.4.

43.3 Insert the following new clause 3.22.1A:

3.22.1A. Where AEMO rejects an Outage Plan or issues an Outage Recall Direction outside of its Outage computer system, AEMO must record its best estimate of when that decision was made and publish the estimated date and time of the decision as soon as practicable on the WEM Website.

43.4 Clause 3.22.2 is deleted and replaced with the following:

3.22.2. AEMO must, as soon as practicable after AEMO receives a notification of a Forced Outage for an Equipment List Facility or a revision is made to an existing Forced Outage for an Equipment List Facility in its Outage computer system, publish on the WEM Website:

- (a) the Outage Facility affected by the Outage and, where relevant, each Facility Technology Type of the Outage Facility affected by the Outage;
- (b) the cause of the Outage;
- (c) the date and time the Outage commenced or is expected to commence;
- (d) the date and time the Outage ended or is expected to end;
- (e) the date and time when:
  - i. AEMO was first notified of the Outage under clause 3.21.2(a);
  - ii. the Outage was first reported in AEMO's Outage computer system; or
  - iii. any amendments to the Outage information were received by AEMO;
- (f) each Outage Capability impacted by the Outage and any associated Remaining Available Capacity quantities for the Outage Facility or the Facility Technology Types of the Outage Facility; and



- (g) any other information specified in the WEM Procedure referred to in clause 3.18.4.

43.5 Insert the following new clause 3.22.3:

3.22.3. AEMO must prepare and publish on the WEM Website the Refund Exempt Planned Outage Count for each Separately Certified Component of a Scheduled Facility or Semi-Scheduled Facility for each of the 1000 Trading Days up to and including the most recent Trading Day which AEMO has settled under Chapter 9.

**44. Section 3.23 added**

44.1 Insert the following new section 3.23:

**3.23. [Blank]**

**45. Section 3A.6 amended**

45.1 Clause 3A.6.3 is deleted and replaced with the following:

3A.6.3. Generator Monitoring Plans and information relating to Generator Monitoring Plans including outcomes, reporting data and supporting evidence relating to a Generator Monitoring Plan are all Confidential Information.

**46. Section 3A.7 amended**

46.1 Clause 3A.7.6 is deleted and replaced with the following:

3A.7.6. A Generator Register is Confidential Information.

**47. Section 3A.12 amended**

47.1 Clause 3A.12.3 is amended by:

- (a) deleting the word 'Generation' and replacing it with the word 'Generator'; and
- (b) deleting the word '2.13.10' and replacing it with the word '2.13.27'.

**48. Section 4.1 amended**

48.1 Clause 4.1.23C is deleted and replaced with the following:

4.1.23C. For each Trading Month, AEMO must determine and provide to each Market Participant that Market Participant's Indicative Individual Reserve Capacity Requirement in accordance with clause 4.28.6 by 5:00 PM on the Business Day that is 10 Business Days prior to the start of the relevant Trading Month.

48.2 Clause 4.1.24 is deleted and replaced with the following:

4.1.24. For each Trading Month, AEMO must determine and provide to each Market Participant that Market Participant's Individual Reserve Capacity Requirement in accordance with clause 4.28.7 by 5:00 PM on the Settlement Statement Date for the Trading Week containing the first Trading Day in the relevant Trading Month.

**49. Section 4.1A amended**

49.1 Insert the following new clause 4.1A.8:

4.1A.8. AEMO must publish the CC Uplift Quantity for each applicable Facility.

**50. Section 4.10A amended**

50.1 Insert the following new clause 4.10A.12:

4.10A.12. AEMO must publish the information provided to it under clause 4.10A.6 with respect to a Market Participant nominating that a Facility be classified as a Network Augmentation Funding Facility, excluding any Confidential Information.

**51. Section 4.11 amended**

- 51.1 Clause 4.11.1(a) is amended by deleting the words 'the Trading Day starting 1 October in Year 3 of the Reserve Capacity Cycle to the end of July in Year 4' and replacing them with the words 'the start of the Trading Day starting on 1 October of Year 3 of the Reserve Capacity Cycle to the end of the Trading Day starting on 31 July of Year 4'.
- 51.2 Clause 4.11.3BA(c) is amended by deleting the words 'clauses 4.10.1(fA), 4.10.1(fB) or 4.10.1(fC)' and replacing them with the words 'clause 4.10.1(fA)'.

**52. Section 4.12 amended**

52.1 Clause 4.12.1 is deleted and replaced with the following:

4.12.1. The Reserve Capacity Obligations for each Market Participant holding Capacity Credits are as follows:

- (a) a Market Participant must ensure that for each Trading Interval, the MW quantity of capacity provided through the Bilateral Submission and STEM Submission processes, as determined for the Market Participant under clause 4.26.2AE, is greater than or equal to the MW quantity determined for the Market Participant under clause 4.26.2AB; and
- (b) a Market Participant must make the capacity associated with the Capacity Credits which are assigned to its Registered Facility for each Dispatch Interval available for dispatch by AEMO in accordance with Chapter 7, up to the Reserve Capacity Obligation Quantity for the Registered Facility for the relevant Dispatch Interval.

52.2 Clause 4.12.4 is amended by deleting the words 'Registered Facility which is a'.

52.3 Clause 4.12.4(c) is amended by deleting the word '7.6.16' and replacing it with the word '7.6.5A' in each place where it occurs.

52.4 Clause 4.12.5 is amended by deleting the words 'a Registered Facility which is' in each place where they occur.

**53. Section 4.15 amended**

- 53.1 Clause 4.15.16(a) is amended by deleting the word 'and' after the semi-colon at the end of the clause.
- 53.2 Clause 4.15.16(b) is amended by deleting the full stop at the end of the clause and replacing it with '; and'.
- 53.3 Insert the following new clause 4.15.16(c):
- (c) the Highest Network Access Quantity for each Facility.

**54. Section 4.16 amended**

- 54.1 Insert the following new clause 4.16.8A:
- 4.16.8A. Within five days of publication of the Benchmark Reserve Capacity Price by the Economic Regulation Authority under clause 4.16.8, AEMO must publish the Benchmark Reserve Capacity Price on the WEM Website.

**55. Section 4.20 amended**

- 55.1 Insert the following new clause 4.20.18:
- 4.20.18. AEMO must publish on the WEM Website, for each Market Participant holding Capacity Credits, the Capacity Credits provided by each Facility for each Reserve Capacity Cycle.

**56. Section 4.25 amended**

- 56.1 Clause 4.25.3A(a) is deleted and replaced with the following:
- (a) that Facility is subject to a Planned Outage, or
- 56.2 Clause 4.25.9(e) is deleted and replaced with the following:
- (e) deem the Reserve Capacity Test to be cancelled and discard the results if:
- i. the Facility is constrained during the test period because of an outage of an item of equipment that is part of a Network; or
- ii. AEMO determines that the Reserve Capacity Test was invalid in accordance with the WEM Procedure referred to in clause 4.25.14;
- 56.3 Clause 4.25.14 is amended by inserting the words ', including the situations in which AEMO may deem a Reserve Capacity Test to be invalid' immediately after the words 'WEM Procedure'.

**57. Section 4.26 amended**

- 57.1 Clause 4.26.1A(a)(ii)(3) is amended by deleting the words 'Scheduled Facility, a Semi-Scheduled Facility or a Non-Scheduled Facility' and replacing them with the words 'Scheduled Facility or a Semi-Scheduled Facility'.

57.2 Clause 4.26.1A(a)(ii)(3)(v) is amended by deleting the word 'and' after the semi-colon at the end of the clause.

57.3 Clause 4.26.1A(a)(ii)(4) is amended by deleting the subclause number '4' and replacing it with subclause number '5' so that it is clause 4.26.1A(a)(ii)(5).

57.4 Insert the following new clause 4.26.1A(a)(ii)(4):

4. if Facility  $f$  is considered by AEMO to have been in Commercial Operation in Trading Interval  $t$  and is a Non-Scheduled Facility:

$$\min(\text{CC}(f,t), \max(0, \min(\text{RL}(f,t) - 2 \times \text{MAX2}(f,t), \text{RL}(f,t) - \text{A}(f,t))))$$

where:

- i.  $\text{CC}(f,t)$  is the number of Capacity Credits held for Facility  $f$  in Trading Interval  $t$ ;
- ii.  $\text{RL}(f,t)$  is the Required Level for Facility  $f$ , adjusted to 100 percent of the level of Capacity Credits held for Facility  $f$  in Trading Interval  $t$ ;
- iii.  $\text{MAX2}(f,t)$  is the second highest value of the output for Facility  $f$  (in MWh) achieved for a Trading Interval during the Trading Day in which Trading Interval  $t$  falls, as measured in Meter Data Submissions received by AEMO in accordance with section 8.4, that has been achieved since the date AEMO determined the Facility to be in Commercial Operation up to the relevant Trading Day, where this value must be set equal to or greater than the Max2 applied by AEMO for the previous Trading Day; and
- iv.  $\text{A}(f,t)$  is the level of output (in MW) detailed in the most recent report provided prior to Trading Interval  $t$  by the Market Participant for Facility  $f$  under clause 4.13.10C; and

57.5 Clause 4.26.1B is deleted and replaced with the following:

- 4.26.1B. AEMO must calculate the Real-Time Market Reserve Capacity Deficit for each Scheduled Facility or Semi-Scheduled Facility  $f$  for each Trading Interval  $t$  in which AEMO considers the Facility to have been in Commercial Operation as:

$$\text{RTMRCD}(f,t) = \min(\text{RCOQ}(f,t), \text{CAFO}(f,t) + \text{NISCRQ}(f,t) + \text{ESRCSF}(f,t) + \text{RTMOSF}(f,t)) + \text{NIMGRPPO}(f,t) + \text{ESRRPPO}(f,t)$$

where:

- (a)  $\text{RCOQ}(f,t)$  is the Reserve Capacity Obligation Quantity determined for Facility  $f$  in Trading Interval  $t$ ;
- (b)  $\text{CAFO}(f,t)$  is the Capacity Adjusted Forced Outage Quantity determined for Facility  $f$  in Trading Interval  $t$  under clause 3.21.7B;

- (c) NISCRQ(f,t) is the Not In-Service Capacity Refund Quantity determined for Facility f in Trading Interval t under clause 4.26.1D;
- (d) ESRCSF(f,t) is the ESR Charge Shortfall determined for Facility f in Trading Interval t under clause 4.26.1E;
- (e) RTMOSF(f,t) is the Real-Time Market Offer Shortfall determined for Facility f in Trading Interval t under clause 4.26.1G;
- (f) NIMGRPPO(f,t) is the total Refund Payable Planned Outage Quantity determined for Separately Certified Components of Facility f which are Non-Intermittent Generating Systems in Trading Interval t under clause 4.26.1C; and
- (g) ESRRPPO(f,t) is the total Refund Payable Planned Outage Quantity determined for Separately Certified Components of Facility f which are Electric Storage Resources in Trading Interval t under clause 4.26.1CA.

57.6 Clause 4.26.1C is deleted and replaced with the following:

4.26.1C. If the Capacity Adjusted Planned Outage Quantity in a Trading Interval for a Separately Certified Component of a Scheduled Facility or Semi-Scheduled Facility which is a Non-Intermittent Generating System is greater than zero, then AEMO must determine that Capacity Adjusted Planned Outage Quantity to be:

- (a) if the Refund Exempt Planned Outage Count for the Separately Certified Component, calculated over the 1000 Trading Days preceding the Trading Day in which the Trading Interval falls, is less than 8400, a Refund Exempt Planned Outage Quantity; or
- (b) otherwise, a Refund Payable Planned Outage Quantity.

57.7 Clause 4.26.1CA is deleted and replaced with the following:

4.26.1CA. If the Capacity Adjusted Planned Outage Quantity in a Trading Interval for a Separately Certified Component of a Scheduled Facility or Semi-Scheduled Facility which is an Electric Storage Resource is greater than zero, then AEMO must determine that Capacity Adjusted Planned Outage Quantity to be:

- (a) if the Refund Exempt Planned Outage Count for the Separately Certified Component, calculated over the 1000 Trading Days preceding the Trading Day in which the Trading Interval falls, is less than 1400, a Refund Exempt Planned Outage Quantity; or
- (b) otherwise, a Refund Payable Planned Outage Quantity.

57.8 Clause 4.26.1I is amended by deleting the words 'Scheduled Facility, Semi-Scheduled Facility and Non-Scheduled Facility registered to the relevant Market Participant' and replacing them with the words 'Facility with a Facility Class (or, for an unregistered Facility, an indicative

- Facility Class) of Scheduled Facility, Semi-Scheduled Facility or Non-Scheduled Facility, for which the Market Participant holds Capacity Credits in the Trading Interval'.
- 57.9 Clause 4.26.2AD(b) is amended by deleting the words 'in accordance with Chapter 6' and replacing them with the words 'under clause 6.3A.3(g)'.
- 57.10 Clause 4.26.2AH(e) is deleted and replaced with the following:
- (e) NIMGRPPO(f,t) is the total Refund Payable Planned Outage Quantity determined for Separately Certified Components of Facility f which are Non-Intermittent Generating Systems in Trading Interval t under clause 4.26.1C;
- 57.11 Clause 4.26.2AH(f) is deleted and replaced with the following:
- (f) ESRRPPO(f,t) is the total Refund Payable Planned Outage Quantity determined for Separately Certified Components of Facility f which are Electric Storage Resources in Trading Interval t under clause 4.26.1CA;
- 57.12 Clause 4.26.2AH(g) is amended by deleting the words 'in accordance with Chapter 6' and replacing them with the words 'under clause 6.3A.3(g)'.
- 57.13 Clause 4.26.2CH is amended by deleting the word 'Load' and replacing it with the words 'Non-Dispatchable Load'.
- 57.14 Clause 4.26.2D(a) is amended by:
- (a) inserting the words 'with a non-zero MW quantity' immediately after the words 'where AEMO has issued a Dispatch Instruction'; and
  - (b) deleting the words 'DIMW(f,t) is the quantity by which the Demand Side Programme f was instructed by AEMO to reduce its consumption in Trading Interval t as specified by AEMO in accordance with clause 7.13.1E(d), multiplied by two to convert to units of MW' and replacing them with the words 'DIMW(f,t) is the quantity by which the Demand Side Programme f was instructed by AEMO to curtail the absolute value of its Withdrawal in Trading Interval t as specified by AEMO in accordance with clause 7.13.5'.
- 57.15 Clause 4.26.2D(b) is amended by:
- (a) deleting the word 'not'; and
  - (b) inserting the words 'with a zero MW quantity' immediately after the words 'Dispatch Instruction'.
- 57.16 Clause 4.26.2E is amended by deleting the words '(“Capacity Cost Refund”)' and replacing them with the words '(“**Capacity Cost Refund**”)'.
- 57.17 Clause 4.26.2F(a)(i) is amended by deleting the words 'or an Electric Storage Resource'.
- 57.18 Clause 4.26.2F(b) is deleted and replaced with the following:

- (b) the sum of the Demand Side Programme Capacity Cost Refunds for Trading Interval t for each Facility with a Facility Class (or, for an unregistered Facility, an indicative Facility Class) of Demand Side Programme for which Market Participant p holds Capacity Credits in Trading Interval t.

57.19 Clause 4.26.3 is amended by deleting the words 'or an Electric Storage Resource'.

57.20 Clause 4.26.3A is deleted and replaced with the following:

4.26.3A. The Demand Side Programme Capacity Cost Refund for Trading Interval t for a Facility f with a Facility Class (or, for an unregistered Facility, an indicative Facility Class) of Demand Side Programme is equal to the lesser of:

- (a) the Maximum Facility Refund for Facility f in the Capacity Year the Trading Interval t falls in, less all Demand Side Programme Capacity Cost Refunds applicable to the Facility in previous Trading Intervals falling in the same Capacity Year; and

- (b) the sum of:

- i. either:

- 1. if Facility f is a Registered Facility:

$$\text{TIRR}(f, t) \times S$$

where:

S is the Capacity Shortfall in MW determined in accordance with clause 4.26.2D in Trading Interval t, and

TIRR(f,t) is the Trading Interval Refund Rate for Facility f in Trading Interval t; or

- 2. otherwise, zero; and

- ii. the Facility Reserve Capacity Deficit Refund for Trading Interval t for Facility f, determined in accordance with clause 4.26.1A.

57.21 Clause 4.26.6(e)(i)(3) is deleted and replaced with the following:

- 3. the sum of the Generation Capacity Cost Refunds in Capacity Year y that the Trading Interval t falls in, for Trading Intervals prior to and including Trading Interval t, for the Market Participant p to which the Facility is registered, is less than the Maximum Participant Generation Refund for Market Participant p for Capacity Year y; and

57.22 Clause 4.26.6(e)(ii)(2) is amended by inserting the word 'and' after the semi-colon at the end of the clause.

57.23 Delete clause 4.26.6(e)(ii)(4).

## 58. Section 4.28 amended

- 58.1 Clause 4.28.2(b) is amended by deleting the words 'Market Customer's' and replacing them with the words 'Market Participant's'.
- 58.2 Clause 4.28.6 is amended by:
- (a) deleting the words 'and publish an' and replacing them with the words 'and provide to each Market Participant that Market Participant's'; and
  - (b) deleting the words 'for each Market Participant'.
- 58.3 Clause 4.28.7 is amended by:
- (a) deleting the words 'and publish an' and replacing them with the words 'and provide to each Market Participant that Market Participant's'; and
  - (b) deleting the words 'for each Market Participant'.
- 58.4 Clause 4.28.9 is amended by deleting the word '4.28.8C(a)' and replacing it with the word '4.28.8C'.
- 58.5 Clause 4.28.9A is amended by deleting the word '4.28.8C(a)' and replacing it with the word '4.28.8C'.
- 58.6 Clause 4.28.11A is amended by deleting the words 'must publish the recalculated Individual Reserve Capacity Requirements applicable' and replacing them with the words 'must provide to each Market Participant the recalculated Individual Reserve Capacity Requirements for that Market Participant applicable'.
- 58.7 Insert the following new clause 4.28.13:
- 4.28.13. AEMO must publish on the WEM Website the following ratios calculated by it when it determines the Indicative Individual Reserve Capacity Requirements or the Individual Reserve Capacity Requirements for a Trading Month, or recalculates the Individual Reserve Capacity Requirements for a Trading Month as required by clause 4.28.11A:
- (a) NTDL\_Ratio as calculated in accordance with Step 8A of Appendix 5;
  - (b) TDL\_Ratio as calculated in accordance with Step 8C of Appendix 5; and
  - (c) Total\_Ratio as calculated in accordance with Step 10 of Appendix 5.

**59. Section 4.28A amended**

- 59.1 Clause 4.28A.1(c)(ii) is amended by deleting the words 'clause 2.30B.2(a) has submitted an Outage Plan that would affect the energy capability' and replacing them with the words 'clause 2.30B.2(a) is subject to a Planned Outage in the Trading Interval that would affect the energy production capability'.
- 59.2 Clause 4.28A.1(c)(iv) is amended by deleting the words 'clause 2.30B.2(a) has not submitted an Outage Plan or experienced a Forced Outage that would affect the energy capability' and



replacing them with the words 'clause 2.30B.2(a) is not subject to a Planned Outage or Forced Outage in the Trading Interval that would affect the energy production capability'.

- 59.3 Clause 4.28A.2 is amended by inserting a colon immediately after the words 'clause 4.28A.1(c)(iv)'.

**60. Section 4.29 amended**

- 60.1 Clause 4.29.1(b) is amended by deleting the formula for calculating 'Segment 1' and replacing it with the following formula:

$$\text{Segment 1} = \frac{\text{EZ BRCP Factor} - \text{BRCP Cap Factor}}{\text{EZ}} \times \text{surplus} \\ + \text{BRCP Cap Factor}$$

- 60.2 Insert the following new clause 4.29.1CA:

4.29.1CA. AEMO must publish on the WEM Website:

- (a) the values determined for Trans\_Ceiling and Trans\_Floor in accordance with clause 4.29.1C that are used in the formula in clause 4.29.1B; and
- (b) the value determined by multiplying the Facility Monthly Reserve Capacity Price for a Transitional Facility determined in clause 4.29.1B by 12.

- 60.3 Clause 4.29.3(d)(i) is amended by deleting the words 'which are not covered by a Special Price Arrangement'.

- 60.4 Clause 4.29.3(d)(vii) is amended by deleting the full stop at the end of the clause and replacing it with a semi-colon.

- 60.5 Insert the following new clause 4.29.5:

4.29.5. Where a Facility first enters service prior to 1 October of Year 3 of a Reserve Capacity Cycle and Reserve Capacity Obligations apply to the Facility in accordance with clause 4.1.26, then for the period between commencement of the Reserve Capacity Obligations for the Facility and up to the start of the Trading Day on 1 October of Year 3 of that Reserve Capacity Cycle, the Facility Monthly Reserve Capacity Price for the Facility for that period is equal to the Reserve Capacity Price for the Capacity Year immediately preceding 1 October of Year 3 of that Reserve Capacity Cycle divided by 12.

**61. Section 5.2A amended**

- 61.1 Clause 5.2A.3 is amended by deleting the word '4.1.11' and replacing it with the word '4.1.7'.

**62. Section 5.9 amended**

- 62.1 Clause 5.9.2 is amended by inserting the words 'to be provided' immediately after the words 'instructed by AEMO'.

62.2 Clause 5.9.3 is amended by deleting the words 'Facility and Trading Dispatch' and replacing them with the words 'Facility and Dispatch'.

**63. Section 6.2 amended**

63.1 Clause 6.2.1 is deleted and replaced with the following:

6.2.1. A Market Participant may submit Bilateral Submission data for a Trading Day to AEMO between:

- (a) 8:00 AM on the day that is seven days prior to the start of the Scheduling Day for the Trading Day; and
- (b) the Bilateral Submission Cutoff for the Trading Day.

63.2 Clause 6.2.2 is deleted and replaced with the following:

6.2.2. Where, at the time specified in clause 6.2.1(a) for a Trading Day:

- (a) AEMO holds a Standing Bilateral Submission applicable to the Trading Day for a Market Participant; and
- (b) the Standing Bilateral Submission conforms to the requirements of section 6.7 at that time,

AEMO must make the Standing Bilateral Submission the Bilateral Submission for the Trading Day for the Market Participant as at the time specified in clause 6.2.1(a).

63.3 Clause 6.2.2A(a) is amended by deleting the words 'before the Bilateral Submission Cutoff' and replacing them with the words 'during the period described in clause 6.2.1'.

63.4 Clause 6.2.2A(b)(ii) is amended by deleting the words 'or was received after the Bilateral Submission Cutoff' and replacing them with the words 'or was not received during the period described in clause 6.2.1'.

63.5 Clause 6.2.3 is deleted and replaced with the following:

6.2.3. AEMO must maintain and provide to each Market Participant the Bilateral Submission quantities associated with that Market Participant for each Trading Interval in the Bilateral Submission Results Window, including the party supplying, or being supplied by, the Market Participant. AEMO must update this information whenever AEMO:

- (a) makes a Bilateral Submission under clause 6.2.2;
- (b) accepts Bilateral Submission data under clause 6.2.2A(a); or
- (c) disregards cancelled Bilateral Submission data from a Bilateral Submission under clause 6.2.5(a).

63.6 Clause 6.2.4B is deleted and replaced with the following:

6.2.4B. A Market Participant may cancel Bilateral Submission data held by AEMO for any Trading Interval during the period described in clause 6.2.1 for the Trading Day to which the cancelled Bilateral Submission data relates.

63.7 Delete clause 6.2.8.

**64. Section 6.2A amended**

64.1 Clause 6.2A.2A is amended by deleting the words 'time specified for the Standing Bilateral Submission under clause 6.7.1(b)(ii)(2)' and replacing them with the words 'next time that AEMO is required to use Standing Bilateral Submissions to make Bilateral Submissions under clause 6.2.2'.

64.2 Clause 6.2A.4 is deleted and replaced with the following:

6.2A.4. A Market Participant may at any time cancel Standing Bilateral Submission data accepted by AEMO under clause 6.2A.2(a) for Trading Intervals starting at a specified time on Trading Days starting on a specified day of the week.

64.3 Clause 6.2A.5 is amended by deleting the words 'Trading Interval of the day of the week' and replacing them with the words 'Trading Intervals'.

**65. Section 6.3 amended**

65.1 The section 6.3 heading '[Blank]' is deleted and replaced with the following:

**Determination of Electric Storage Resource Obligation Intervals**

65.2 Insert the following new clause 6.3.1:

6.3.1. AEMO must, in accordance with the WEM Procedure referred to in clause 4.11.3A, determine and record the following information by 6:50 AM on each Scheduling Day:

- (a) the Electric Storage Resource Obligation Intervals that will apply during the Trading Day for the Scheduling Day; and
- (b) the Electric Storage Resource Obligation Intervals that AEMO expects will apply during each of the seven following Trading Days.

**66. Section 6.3A amended**

66.1 Clause 6.3A.1 is deleted and replaced with the following:

6.3A.1. AEMO must publish the total energy, in MWh, as measured at the Reference Node, scheduled with AEMO under Bilateral Contracts for each Trading Interval in the Bilateral Submission Results Window. AEMO must update this information whenever AEMO:

- (a) makes a Bilateral Submission under clause 6.2.2;
- (b) accepts Bilateral Submission data under clause 6.2.2A(a); or

- (c) disregards cancelled Bilateral Submission data from a Bilateral Submission under clause 6.2.5(a).

66.2 Clause 6.3A.2 is deleted and replaced with the following:

6.3A.2. AEMO must make the following information available to each Market Participant by 6:50 AM on each Scheduling Day:

- (a) the Electric Storage Resource Obligation Intervals that will apply for the Trading Day for the Scheduling Day, as determined by AEMO under clause 6.3.1(a); and
- (b) the Electric Storage Resource Obligation Intervals that AEMO expects will apply for each of the seven Trading Days following the Trading Day for the Scheduling Day, as determined by AEMO under clause 6.3.1(b).

66.3 Insert the following new clause 6.3A.2A:

6.3A.2A. AEMO must make available to each Market Participant, by 8:00 AM on each Scheduling Day, for each Trading Interval in the Trading Day for the Scheduling Day, the Forecast Operational Demand and Forecast Operational Withdrawal as determined from the most recent Pre-Dispatch Schedule that AEMO has made available to Market Participants.

66.4 Clause 6.3A.3 is deleted and replaced with the following:

6.3A.3. Between 8:00 AM and 8:30 AM each Scheduling Day, AEMO must:

- (a) identify and record the details of each approved Commissioning Test Plan that includes one or more Dispatch Intervals in the STEM Submission Information Window;
- (b) identify and record the details of each Planned Outage or Forced Outage for energy recorded by AEMO for a Scheduled Facility, Semi-Scheduled Facility or Non-Scheduled Facility with a duration that includes one or more Dispatch Intervals in the STEM Submission Information Window;
- (c) determine the Maximum Facility Supply Capability for each Scheduled Facility, Semi-Scheduled Facility and Non-Scheduled Facility f for each Dispatch Interval DI in the STEM Submission Information Window as:

$$MFSC(f,DI) = \text{MinAvail}(f,DI) \times LF(f,DI) / 12$$

where:

- i.  $\text{MinAvail}(f,DI)$  is:

- 1. where no Planned Outages or Forced Outages for Facility f with a duration that includes Dispatch Interval DI were identified under clause 6.3A.3(b), the maximum sent out

capacity of Facility f as recorded in Standing Data for Dispatch Interval DI; and

2. otherwise, the minimum Remaining Available Capacity for energy recorded for Facility f in Dispatch Interval DI for the Planned Outages and Forced Outages identified under clause 6.3A.3(b); and

- ii.  $LF(f,DI)$  is the Loss Factor for Facility f in Dispatch Interval DI;

- (d) determine the Maximum Facility Supply Capability for each Scheduled Facility, Semi-Scheduled Facility and Non-Scheduled Facility f for each Trading Interval t in the STEM Submission Information Window as:

$$MFSC(f,t) = \sum_{DI \in t} MFSC(f,DI)$$

where:

- i.  $MFSC(f,DI)$  is the Maximum Facility Supply Capability determined by AEMO for Facility f for Dispatch Interval DI under clause 6.3A.3(c); and

- ii.  $DI \in t$  denotes all Dispatch Intervals DI in Trading Interval t;

- (e) determine the Maximum Supply Capability for each Market Participant p for each Trading Interval t in the STEM Submission Information Window as:

$$MSC(p,t) = \max \left( 0.001, \sum_{f \in \text{Facilities}(p,t)} MFSC(f,t) \right)$$

where:

- i.  $MFSC(f,t)$  is the Maximum Facility Supply Capability determined by AEMO for Facility f for Trading Interval t under clause 6.3A.3(d); and

- ii.  $f \in \text{Facilities}(p,t)$  denotes all Scheduled Facilities, Semi-Scheduled Facilities and Non-Scheduled Facilities f registered to Market Participant p in Trading Interval t;

- (f) determine the Maximum Consumption Capability for each Market Participant p for each Trading Interval t in the STEM Submission Information Window as:

$$MCC(p,t) = \max(0.001, \text{StandingMCC}(p,t))$$

where:

- i. StandingMCC(p,t) is the maximum Loss Factor adjusted quantity of energy, in units of MWh, that could be consumed during Trading Interval t by Market Participant p's Registered Facilities and Non-Dispatchable Loads, as specified in Standing Data;
- (g) using the assumptions specified in clause 6.3A.4, determine and record an estimate of the Capacity Adjusted Forced Outage Quantity and Capacity Adjusted Planned Outage Quantity for each Scheduled Facility or Semi-Scheduled Facility, and each Separately Certified Component of a Scheduled Facility or Semi-Scheduled Facility, for each Dispatch Interval and each Trading Interval in the STEM Submission Information Window in which AEMO considers the relevant Facility will be in Commercial Operation; and
- (h) using the assumptions specified in clause 6.3A.4, determine and record an estimate of the Reserve Capacity Obligation Quantity for each Scheduled Facility or Semi-Scheduled Facility, and each Separately Certified Component of a Scheduled Facility or Semi-Scheduled Facility, for each Dispatch Interval in the STEM Submission Information Window in which AEMO considers the relevant Facility will be in Commercial Operation.

66.5 Clause 6.3A.4 is deleted and replaced with the following:

- 6.3A.4. When determining Capacity Adjusted Planned Outage Quantity, Capacity Adjusted Forced Outage Quantity and Reserve Capacity Obligation Quantity estimates on a Scheduling Day under clauses 6.3A.3(g) and 6.3A.3(h), AEMO must assume that:
- (a) the Electric Storage Resource Obligation Intervals for the Trading Days in the STEM Submission Information Window are the same as those determined by AEMO on the Scheduling Day under clause 6.3.1;
  - (b) the Commissioning Test Plan details for each Facility for each Dispatch Interval in the STEM Submission Information Window are the same as those identified by AEMO on the Scheduling Day under clause 6.3A.3(a);
  - (c) the Planned Outage and Forced Outage details for each Separately Certified Component for each Dispatch Interval in the STEM Submission Information Window are the same as those identified by AEMO on the Scheduling Day under clause 6.3A.3(b);
  - (d) the maximum daily temperature at the site of each relevant Facility does not exceed 41 degrees Celsius on any Trading Day in the STEM Submission Information Window; and

- (e) the Reserve Capacity Obligation Quantity of an Electric Storage Resource is not reduced under clause 4.12.5(g) for any Dispatch Interval in the STEM Submission Information Window.

66.6 Insert the following new clause 6.3A.5:

6.3A.5. By 8:30 AM on each Scheduling Day, AEMO must make available to each Market Participant the following parameters for information in forming its STEM Submissions:

- (a) for each Trading Interval in the STEM Submission Information Window:
  - i. the Maximum Facility Supply Capability determined on the Scheduling Day under clause 6.3A.3(d) for each Scheduled Facility, Semi-Scheduled Facility and Non-Scheduled Facility registered to the Market Participant in the Trading Interval;
  - ii. the Maximum Supply Capability determined on the Scheduling Day under clause 6.3A.3(e) for the Market Participant; and
  - iii. the Maximum Consumption Capability determined on the Scheduling Day under clause 6.3A.3(f) for the Market Participant;
- (b) for each Trading Interval in the STEM Submission Information Window, for each Separately Certified Component of a Scheduled Facility or Semi-Scheduled Facility for which the Market Participant holds Capacity Credits in the Trading Interval and which AEMO considers to be in Commercial Operation in the Trading Interval:
  - i. the Capacity Adjusted Forced Outage Quantity estimate determined on the Scheduling Day under clause 6.3A.3(g); and
  - ii. the Capacity Adjusted Planned Outage Quantity estimate determined on the Scheduling Day under clause 6.3A.3(g); and
- (c) for each Dispatch Interval in the STEM Submission Information Window, for each Separately Certified Component of a Scheduled Facility or Semi-Scheduled Facility for which the Market Participant holds Capacity Credits in the Dispatch Interval and which AEMO considers to be in Commercial Operation in the Dispatch Interval:
  - i. the Capacity Adjusted Forced Outage Quantity estimate determined on the Scheduling Day under clause 6.3A.3(g);
  - ii. the Capacity Adjusted Planned Outage Quantity estimate determined on the Scheduling Day under clause 6.3A.3(g); and
  - iii. the Reserve Capacity Obligation Quantity estimate determined on the Scheduling Day under clause 6.3A.3(h).

**67. Section 6.3B amended**

67.1 Clause 6.3B.1 is deleted and replaced with the following:

- 6.3B.1. A Market Participant may submit STEM Submission data for a Trading Day to AEMO between:
- (a) 8:30 AM on the day that is seven days prior to the start of the Scheduling Day for the Trading Day; and
  - (b) the STEM Submission Cutoff for the Trading Day.

67.2 Clause 6.3B.1A is deleted and replaced with the following:

- 6.3B.1A. Where, at 8:30 AM on the Scheduling Day for a Trading Day:
- (a) AEMO does not hold a STEM Submission applicable to the Trading Day for the Market Participant;
  - (b) AEMO holds a Standing STEM Submission applicable to the Trading Day for a Market Participant; and
  - (c) the Standing STEM Submission conforms to the requirements of section 6.6 at that time,
- AEMO must, subject to clause 6.3B.1B, make the Standing STEM Submission the STEM Submission for the Trading Day for the Market Participant as at 8:30 AM on the Scheduling Day for the Trading Day.

67.3 Clause 6.3B.1B is deleted and replaced with the following:

- 6.3B.1B. If AEMO is required to use a Standing STEM Submission to make a STEM Submission for a Trading Day under clause 6.3B.1A, but the Standing STEM Submission does not comply with section 6.6, then AEMO must, using the process specified in clause 6.3B.2, adjust the Standing STEM Submission to make it a valid STEM Submission with respect to each Trading Interval in the Trading Day.

67.4 Insert the following new clause 6.3B.1C:

- 6.3B.1C. Between 8:30 AM and 9:00 AM each Scheduling Day, AEMO must use the process specified in clause 6.3B.2 to review and where necessary adjust each STEM Submission it holds for a Trading Interval in the STEM Submission Information Window.

67.5 Clause 6.3B.2 is deleted and replaced with the following:

- 6.3B.2. AEMO must use the following process to adjust a Standing STEM Submission to make a valid STEM Submission for a Trading Interval under clause 6.3B.1B and to review and adjust a STEM Submission for a Trading Interval under clause 6.3B.1C:



- (a) If the cumulative MWh quantity over all Price-Quantity Pairs in the Portfolio Supply Curve is greater than the Maximum Supply Capability for the Market Participant for the Trading Interval which was determined on the current Scheduling Day under clause 6.3A.3(e), the Price-Quantity Pairs must be adjusted downward so that the cumulative MWh quantity over all the Price-Quantity Pairs equals the Maximum Supply Capability. This must be achieved by deleting successively or reducing the highest price Price-Quantity Pairs until the cumulative MWh quantity over all remaining Price-Quantity Pairs equals the Maximum Supply Capability.
- (b) If the cumulative MWh quantity over all Price-Quantity Pairs in the Portfolio Demand Curve is greater than the Maximum Consumption Capability for the Market Participant for the Trading Interval which was determined on the current Scheduling Day under clause 6.3A.3(f), the Price-Quantity Pairs must be adjusted downward so that the cumulative MWh quantity over all the Price-Quantity Pairs equals the Maximum Consumption Capability. This must be achieved by deleting successively or reducing the highest price Price-Quantity Pairs until the cumulative MWh quantity over all remaining Price-Quantity Pairs equals the Maximum Consumption Capability.
- (c) If the price in any Price-Quantity Pair in the Portfolio Supply Curve or Portfolio Demand Curve is greater than the Alternative Maximum STEM Price which will apply (or which AEMO expects will apply) in the Trading Interval, the price in the Price-Quantity Pair must be replaced by the Alternative Maximum STEM Price which will apply (or which AEMO expects will apply) in the Trading Interval.
- (d) If the price in any Price-Quantity Pair in the Portfolio Supply Curve or Portfolio Demand Curve is less than the Minimum STEM Price which will apply (or which AEMO expects will apply) in the Trading Interval, the price in the Price-Quantity Pair must be replaced by the Minimum STEM Price which will apply (or which AEMO expects will apply) in the Trading Interval.
- (e) If the cumulative MWh quantity over all Price-Quantity Pairs in the Portfolio Supply Curve with prices which exceed the Maximum STEM Price which will apply (or which AEMO expects will apply) in the Trading Interval ("**liquid priced quantity**") is greater than the sum over all Registered Facilities declared in the Fuel Declaration to be operating on Liquid Fuel of the Maximum Facility Supply

Capability determined for the Facility for the Trading Interval on the current Scheduling Day under clause 6.3A.3(d) (“**allowed quantity**”), the Price-Quantity Pairs must be adjusted so that the liquid priced quantity is less than or equal to the allowed quantity. This must be achieved by successively replacing the price of the Price-Quantity Pair with the lowest price which exceeds the Maximum STEM Price with the Maximum STEM Price, until the liquid priced quantity is less than or equal to the allowed quantity.

- (f) If multiple Price-Quantity Pairs in the Portfolio Supply Curve share the same price, they must be replaced with a single Price-Quantity Pair for that price with a MWh quantity equal to the sum of the MWh quantities in the Price-Quantity Pairs which are being replaced.
- (g) If multiple Price-Quantity Pairs in the Portfolio Demand Curve share the same price, they must be replaced with a single Price-Quantity Pair for that price with a MWh quantity equal to the sum of the MWh quantities in the Price-Quantity Pairs which are being replaced.

To avoid doubt, the process steps specified in this clause 6.3B.2 must be performed in the order listed, and a reference to a Portfolio Supply Curve or Portfolio Demand Curve in those clauses is a reference to the Portfolio Supply Curve or Portfolio Demand Curve as adjusted by any earlier steps in the process.

67.6 Clause 6.3B.4 is deleted and replaced with the following:

6.3B.4. AEMO must maintain and provide to each Market Participant full details of the Market Participant’s STEM Submissions, as adjusted under clauses 6.3B.1B and 6.3B.1C, for each Trading Interval in the STEM Submission Results Window. AEMO must update this information whenever AEMO:

- (a) makes a STEM Submission from a Standing STEM Submission under clause 6.3B.1A;
- (b) accepts STEM Submission data under clause 6.3B.3(a);
- (c) adjusts STEM Submission data under clause 6.3B.1C; or
- (d) disregards cancelled STEM Submission data under clause 6.3B.6(a).

67.7 Clause 6.3B.5 is deleted and replaced with the following:

6.3B.5. A Market Participant may cancel any STEM Submission data held by AEMO for a Trading Interval in a Trading Day during the time interval specified for the Trading Day in clause 6.3B.1.

67.8 Clause 6.3B.6(b) is amended by deleting the word '6.3B.7A' and replacing it with the word '6.3B.5'.

**68. Section 6.3C amended**

68.1 Clause 6.3C.4 is deleted and replaced with the following:

6.3C.4. Standing STEM Submission data accepted by AEMO under clause 6.3C.3 will apply from the next time that AEMO is required to use Standing STEM Submissions to make STEM Submissions under clause 6.3B.1A.

**69. Section 6.4 amended**

69.1 Clause 6.4.6 is deleted and replaced with the following:

6.4.6. In the event of a failure of AEMO's software systems or supporting infrastructure, or any delay in AEMO publishing a Pre-Dispatch Schedule which includes all Trading Intervals in the relevant Trading Day, or AEMO preparing information under clauses 6.2.3, 6.3.1, 6.3A.1, 6.3A.2, 6.3A.2A, 6.3A.3, 6.3A.5 or 6.3B.4, which prevents AEMO from completing the relevant processes, AEMO may extend one or more of the timelines prescribed in sections 6.2, 6.3, 6.3A, 6.3B and this section 6.4, subject to any such extension:

- (a) not resulting in more than a two-hour delay to any of the timelines prescribed in sections 6.2, 6.3, 6.3A, 6.3B and this section 6.4;
- (b) maintaining a window of at least 120 minutes between AEMO making available the data referred to in clause 6.3A.2 and the Bilateral Submission Cutoff;
- (c) maintaining a window of at least 50 minutes between AEMO making available the data referred to in clause 6.3A.2A and the Bilateral Submission Cutoff;
- (d) maintaining a window of at least 20 minutes between AEMO making available the data referred to in clause 6.3A.5 and the Bilateral Submission Cutoff; and
- (e) maintaining a window of at least 110 minutes between each of the following events and the STEM Submission Cutoff:
  - i. AEMO making available to Market Participants the first Pre-Dispatch Schedule that includes all Trading Intervals in the relevant Trading Day;

- ii. AEMO making available to Market Participants the data referred to in clause 6.2.3 as at the Bilateral Submission Cutoff; and
- iii. AEMO making available to Market Participants the data referred to in clauses 6.3A.2A and 6.3A.5.

69.2 Clause 6.4.6A is deleted and replaced with the following:

- 6.4.6A. If AEMO becomes aware of an error in any of the information contained in a Pre-Dispatch Schedule or made available to Market Participants under clauses 6.2.3, 6.3A.1, 6.3A.2, 6.3A.2A, 6.3A.5 or 6.3B.4 at any time before the publication of the relevant STEM Auction results under clause 6.4.3 or a suspension of the STEM under clause 6.10.1, AEMO may:
- (a) publish or release (as applicable) corrected or updated versions of the information it has published or released under clauses 6.2.3, 6.3A.1, 6.3A.2, 6.3A.2A, 6.3A.5 or 6.3B.4; and
  - (b) extend any of the relevant timelines prescribed in sections 6.2, 6.3, 6.3A, 6.3B and this section 6.4 to address the error, subject to any such extension:
    - i. not resulting in more than a two-hour delay to any of the timelines prescribed in sections 6.2, 6.3, 6.3A, 6.3B and this section 6.4;
    - ii. maintaining a window of at least 120 minutes between AEMO making available to Market Participants the data referred to in clause 6.3A.2 and the Bilateral Submission Cutoff;
    - iii. maintaining a window of at least 50 minutes between AEMO making available to Market Participants the data referred to in clause 6.3A.2A and the Bilateral Submission Cutoff;
    - iv. maintaining a window of at least 20 minutes between AEMO making available to Market Participants the data referred to in clause 6.3A.5 and the Bilateral Submission Cutoff; and
    - v. maintaining a window of at least 110 minutes between each of the following events and the STEM Submission Cutoff:
      - 1. AEMO making available to Market Participants the first error-free Pre-Dispatch Schedule that includes all Trading Intervals in the relevant Trading Day;
      - 2. AEMO making available to Market Participants the data referred to in clause 6.2.3 as at the Bilateral Submission Cutoff; and

3. AEMO making available to Market Participants the data referred to in clauses 6.3A.2A and 6.3A.5.

69.3 Clause 6.4.6B is amended by deleting the words 'Bilateral Submission Cutoff, the STEM Submission Cutoff or the STEM Results Deadline' and replacing them with the words 'timelines in sections 6.2, 6.3, 6.3A, 6.3B and this section 6.4'.

69.4 Clause 6.4.6C is deleted and replaced with the following:

6.4.6C. If AEMO considers that extending one or more of the timelines in sections 6.2, 6.3, 6.3A, 6.3B and this section 6.4 under clauses 6.4.6 or 6.4.6A would not provide enough time to allow AEMO to undertake the process described in section 6.9 and publish a valid STEM Auction result under clauses 6.4.3(b), 6.4.3(c) and 6.4.3(d) by 1:30 PM on the relevant Scheduling Day, AEMO must suspend the STEM Auction under clause 6.10.1.

## **70. Section 6.6 amended**

70.1 Clause 6.6.1(b)(ii) is amended by inserting the word 'and' after the semi-colon at the end of the clause.

70.2 Clause 6.6.1(b)(iii) is amended by deleting the word 'and' after the semi-colon at the end of the clause.

70.3 Delete clause 6.6.1(b)(iv).

70.4 Clause 6.6.1(c) is amended by deleting the words 'the date on which the Standing Bilateral Submission data is to take effect,'.

70.5 Clause 6.6.1(c)(ii) is amended by inserting the word 'and' after the semi-colon at the end of the clause.

70.6 Clause 6.6.1(c)(iii) is amended by deleting the semi-colon at the end of the clause and replacing it with a full stop.

70.7 Delete clause 6.6.1(c)(iv).

70.8 Delete clause 6.6.1(c)(v).

70.9 Clause 6.6.2A(a) is deleted and replaced with the following:

- (a) a Fuel Declaration the Market Participant must declare which of its Liquid Fuel capable Registered Facilities are assumed to be operating on Liquid Fuel in forming the Portfolio Supply Curve;

70.10 Clause 6.6.2A(d)(ii) is amended by deleting the words 'the quantity calculated under clause 6.3A.3(e)' and replacing them with the words 'the Maximum Supply Capability determined under clause 6.3A.3(e)'.

- 70.11 Clause 6.6.2A(d)(iii) is amended by deleting the words 'MWh quantity specified in clause 6.3A.3(f)' and replacing them with the words 'Maximum Facility Supply Capability determined under clause 6.3A.3(d)'.
- 70.12 Clause 6.6.2A(e)(ii) is amended by deleting the words 'quantity calculated under clause 6.3A.3(d)' and replacing them with the words 'Maximum Consumption Capability determined under clause 6.3A.3(f)'.
- 70.13 Delete clause 6.6.5(b)(iiA).
- 70.14 Clause 6.6.5(b)(iv) is deleted and replaced with the following:
- iv. less than or equal to the Alternative Maximum STEM Price; and
- 70.15 Clause 6.6.8(a)(ii) is amended by deleting the words 'Participant Interval' and replacing them with the word 'Alternative'.
- 70.16 Clause 6.6.8(b) is amended by inserting a colon immediately after the words 'must be'.
- 70.17 Clause 6.6.8(b)(i) is amended by inserting the word 'and' after the semi-colon at the end of the clause.

**71. Section 6.7 amended**

- 71.1 Clause 6.7.1(b)(ii) is deleted and replaced with the following:
- ii. Standing Bilateral Submission data, the day of the week to which the submission relates, where data provided for a day of the week relates to the Trading Day commencing on that day; and
- 71.2 Clause 6.7.1(c)(iv) is amended by deleting the words 'clause 6.7.1(c)(i) and clause 6.7.1(c)(iii)' and replacing them with the words 'clauses 6.7.1(c)(i) and 6.7.1(c)(iii)'.

**72. Section 6.10 amended**

- 72.1 Clause 6.10.1 is deleted and replaced with the following:
- 6.10.1. AEMO must suspend the STEM Auction for a Trading Interval if AEMO considers that it will not be in a position to undertake the process described in section 6.9 and publish a valid STEM Auction result under clauses 6.4.3(b), 6.4.3(c) and 6.4.3(d) for that Trading Interval by the STEM Results Deadline.
- 72.2 Clause 6.10.2 is amended by deleting the word 'auction' and replacing it with the word 'Auction'.
- 72.3 Clause 6.10.3 is amended by deleting the word 'auction' and replacing it with the word 'Auction'.

**73. Heading deleted**

- 73.1 The heading '**The Non-Balancing Dispatch Merit Order**' immediately after section 6.11 is deleted.

**74. Section 6.12 added**

74.1 Insert the following new section 6.12:

**6.12. [Blank]**

**75. Section 6.16A deleted**

75.1 Delete section 6.16A.

**76. Section 6.16B deleted**

76.1 Delete section 6.16B.

**77. Section 6.20 amended**

77.1 Insert the following new clause 6.20.10A:

6.20.10A. Within five days of the Economic Regulation Authority proposing a final revised value for one or both of the Maximum STEM Price and Alternative Maximum STEM Price in accordance with clause 6.20.10, AEMO must publish on the WEM Website:

- (a) the proposed revised value for one or both of the Maximum STEM Price and Alternative Maximum STEM Price, as applicable; and
- (b) any conditions that could cause different values to apply at different times.

77.2 Clause 6.20.14(a) is amended by deleting the words 'Balancing Market' and replacing them with the words 'Real-Time Market for energy'.

77.3 Clause 6.20.14(b) is deleted and replaced with the following:

- (b) AEMO dispatched a Facility below the sum of all quantities priced at the Minimum STEM Price in the Facility's Real-Time Market Offer for energy in the Dispatch Interval, for reasons other than Outages, binding Network Constraints and the dispatch of Essential System Services, because, in the Economic Regulation Authority's reasonable opinion, the Minimum STEM Price was too high;

77.4 Clause 6.20.16(a) is deleted and replaced with the following:

- (a) allow clearance of the Real-Time Market for energy without the Reference Trading Price being equal to the Minimum STEM Price in most circumstances; and

77.5 Clause 6.20.16(b) is amended by deleting the words 'Balancing Prices' and replacing them with the words 'Reference Trading Prices'.

77.6 Clause 6.20.17(a) is amended by deleting the words 'Balancing Price' and replacing them with the words 'Reference Trading Price'.

77.7 Clause 6.20.18 is amended by:

- (a) deleting the words 'Balancing Price' and replacing them with the words 'Reference Trading Price'; and
- (b) deleting the words 'Balancing Market' and replacing them with the words 'Real-Time Market' in each place where they occur.

77.8 Clause 6.20.19 is amended by:

- (a) deleting the words 'Market Generator' and replacing them with the words 'Market Participant' in each place where they occur; and
- (b) deleting the words 'Balancing Price' and replacing them with the words 'Reference Trading Price'.

77.9 Clause 6.20.25 is amended by deleting the words 'Market Generator' and replacing them with the words 'Market Participant'.

77.10 Insert the following new clause 6.20.31:

6.20.31. Within five Business Days of the Economic Regulation Authority publishing a report with the revised value for the Minimum STEM Price on its website, AEMO must publish on the WEM Website:

- (a) the Minimum STEM Price; and
- (b) any conditions that could cause a different value to apply at different times.

## **78. Section 6.22 added**

78.1 Insert the following new section 6.22:

### **6.22. STEM Data**

6.22.1. AEMO must publish on the WEM Website the following STEM summary information:

- (a) for each Trading Interval in each completed Trading Day in the previous 12 calendar months:
  - i. the total STEM Offer quantity;
  - ii. the total STEM Bid quantity;
  - iii. whether the STEM was suspended in relation to the relevant Trading Interval;
  - iv. where the STEM was not suspended, the STEM quantity purchased by AEMO; and
  - v. where the STEM was not suspended, the STEM Clearing Price;



- (b) for each Trading Interval in each Trading Day during the 12 calendar months, before the end of the seventh day from the start of the Trading Day:
  - i. the STEM Offers by Market Participant;
  - ii. the STEM Bids by Market Participant;
  - iii. the quantity bought or sold in the STEM by Market Participant; and
  - iv. the Fuel Declaration made by Market Participant; and
- (c) the STEM Price for each Trading Interval of the current Trading Month for which STEM Auction results have been released to Market Participants.

**79. Section 7.1 amended**

- 79.1 Clause 7.1.3(a)(i) is amended by inserting the words 'and DSP Withdrawal Profile Submissions' immediately after the words 'Real-Time Market Submissions'.
- 79.2 Clause 7.1.3(a)(ii) is amended by deleting the words 'publication on the WEM Website' and replacing them with the words 'provision to Market Participants'.
- 79.3 Clause 7.1.3(a)(iii) is amended by deleting the words 'publication on the WEM Website' and replacing them with the words 'provision to Market Participants'.
- 79.4 Clause 7.1.3(a)(iv) is amended by:
  - (a) deleting the words 'publication on the WEM Website' and replacing them with the words 'provision to Market Participants'; and
  - (b) deleting the word 'and' after the semi-colon at the end of the clause.
- 79.5 Clause 7.1.3(a)(v) is deleted and replaced with the following:
  - v. the calculation and provision to Market Participants of a DSP Pre-Dispatch Schedule at least once each Pre-Dispatch Interval;
- 79.6 Insert the following new clause 7.1.3(a)(vi):
  - vi. the calculation and provision to Market Participants of a Week-Ahead Schedule at least once each Trading Day;
- 79.7 Insert the following new clause 7.1.3(a)(vii):
  - vii. the calculation and provision to Market Participants of a DSP Week-Ahead Schedule at least once each Trading Day; and
- 79.8 Insert the following new clause 7.1.3(a)(viii):
  - viii. the publication of the information referred to in clauses 7.1.3(a)(ii) to 7.1.3(a)(vii) on the WEM Website; and

**80. Section 7.2 amended**

- 80.1 Insert the following new clause 7.2.4(cA):
- (cA) the Unconstrained Injection Forecasts and Unconstrained Withdrawal Forecasts specified in Real-Time Market Submissions, or any alternative forecast quantities determined by AEMO under clause 7.2.4A;
- 80.2 Clause 7.2.4(d) is deleted and replaced with the following:
- (d) dispatching sufficient energy to meet the Forecast Unscheduled Operational Demand, Unconstrained Withdrawal Forecast quantities for Non Scheduled Facilities and scheduled Withdrawal quantities for Scheduled Facilities and Semi-Scheduled Facilities;
- 80.3 Clause 7.2.4(k) is amended by deleting the word 'Constraints' and replacing it with the words 'Constraint Equations'.
- 80.4 Clause 7.2.4(l) is amended by deleting the words 'Facility Performance Offsets' and replacing them with the words 'Facility Performance Factors'.
- 80.5 Insert the following new clause 7.2.4A:
- 7.2.4A. AEMO may determine and use as an input to the Dispatch Algorithm alternative forecast quantities to the Unconstrained Injection Forecast and Unconstrained Withdrawal Forecast provided in a Real-Time Market Submission if AEMO reasonably considers that the alternative forecast quantities are likely to be more accurate.
- 80.6 Clause 7.2.5(a) is amended by:
- (a) amending the subclause numbered 'iv.' immediately after the words 'in a form that:' to subclause numbered 'v.';
- (b) amending the subclause numbered 'v.' to subclause numbered 'vi.'; and
- (c) amending the subclause numbered 'vi.' to subclause numbered 'vii.'.

## **81. Section 7.3 amended**

- 81.1 The section 7.3 heading '**Forecast Operational Demand**' is deleted and replaced with the following:
- Forecast Unscheduled Operational Demand**
- 81.2 Clause 7.3.1 is amended by inserting the word 'Unscheduled' immediately after the word 'Forecast'.
- 81.3 Clause 7.3.2 is deleted and replaced with the following:
- 7.3.2. The Forecast Unscheduled Operational Demand must represent AEMO's best estimate of the total demand, in MW, to be served in the Pre-Dispatch Interval or Dispatch Interval, excluding:

- (a) any Withdrawal by Non-Scheduled Facilities; and
- (b) any Withdrawal quantities scheduled by the Dispatch Algorithm for Scheduled Facilities or Semi-Scheduled Facilities.

81.4 Clause 7.3.3 is deleted and replaced with the following:

7.3.3. [Blank]

81.5 Clause 7.3.4 is amended by inserting the word 'Unscheduled' immediately after the word 'Forecast'.

## **82. Section 7.4 amended**

82.1 The heading '**Real-Time Market Submissions: Obligations and meaning**' immediately above clause 7.4.1 is deleted and replaced with the following:

### **Real-Time Market Submissions – Obligations and meaning**

82.2 Clause 7.4.1 is deleted and replaced with the following:

7.4.1. A Market Participant must ensure that it has made a Real-Time Market Submission or Standing Real-Time Market Submission in accordance with this section 7.4 for each Dispatch Interval in the Week-Ahead Schedule Horizon:

- (a) for energy, for each of its Scheduled Facilities, Semi-Scheduled Facilities and Non-Scheduled Facilities; and
- (b) for each Frequency Co-optimised Essential System Service, for each of its Registered Facilities that is accredited to provide that Frequency Co-optimised Essential System Service.

82.3 Insert the following new clause 7.4.1A:

7.4.1A. If AEMO has not accepted a Real-Time Market Submission for a Registered Facility, Market Service and Dispatch Interval under clause 7.4.49(a)(i), but has accepted an applicable Standing Real-Time Market Submission, then the Standing Real-Time Market Submission is deemed to be the Real-Time Market Submission for the Registered Facility, Market Service and Dispatch Interval.

82.4 Insert the following new clause 7.4.1B:

7.4.1B. A Real-Time Market Submission for a Registered Facility, Market Service and Dispatch Interval that AEMO accepts under clause 7.4.49(a)(i) replaces any previously accepted Real-Time Market Submission for, and has effect in relation to, the Registered Facility, Market Service and Dispatch Interval.

82.5 Insert the following new clause 7.4.1C:

7.4.1C. If:

- (a) AEMO has not yet accepted a Real-Time Market Submission for a Registered Facility, Market Service and Dispatch Interval under clause 7.4.49(a)(i); and
- (b) AEMO accepts a Standing Real-Time Market Submission for the Registered Facility and Market Service that is applicable to the Dispatch Interval,

then the Standing Real-Time Market Submission replaces any previously accepted Standing Real-Time Market Submission as the deemed Real-Time Market Submission for the Registered Facility, Market Service and Dispatch Interval.

82.6 Clause 7.4.2 is deleted and replaced with the following:

7.4.2. Subject to clause 7.4.37, a Market Participant must make reasonable endeavours to ensure that its Real-Time Market Submission for each of its Scheduled Facilities, Semi-Scheduled Facilities and Interruptible Loads for each Dispatch Interval accurately reflects:

- (a) for Dispatch Intervals in the Week-Ahead Schedule Horizon:
  - i. the Market Participant's reasonable expectation of the capability of its Registered Facility to be dispatched in the Real-Time Market;
  - ii. any applicable tests required under these WEM Rules, including tests for Reserve Capacity under section 4.25;
  - iii. any Outage Plans applicable to the Dispatch Interval that have not been rejected, withdrawn or subjected to an Outage Recall Direction that affects the Dispatch Interval; and
  - iv. any applicable Forced Outages applying to the Dispatch Interval;
- (b) for Dispatch Intervals in the Pre-Dispatch Schedule Horizon, all information reasonably available to the Market Participant, including:
  - i. the Market Participant's intentions for commitment, control and decommitment;
  - ii. the Market Participant's intentions for providing Frequency Co-optimised Essential System Services; and
  - iii. in the case of a Semi-Scheduled Facility, any changes to the Market Participant's Unconstrained Injection Forecast or Unconstrained Withdrawal Forecast that exceed the Tolerance Range or Facility Tolerance Range applicable to the Semi-Scheduled Facility; and

- (c) the prices at which the Market Participant intends the Registered Facility will participate in the Real-Time Market for:
  - i. Injections;
  - ii. Withdrawals; and
  - iii. providing a Frequency Co-optimised Essential System Service for which the Registered Facility is accredited,
 as applicable.

82.7 Clause 7.4.2A is amended by:

- (a) inserting the word 'clause' immediately after the words 'requirements of'; and
- (b) deleting the word 'published' and replacing it with the words 'made available to the Market Participant'.

82.8 Insert the following new clause 7.4.2B:

7.4.2B. Subject to clause 7.4.37A, a Market Participant must make Real-Time Market Submissions for each of its Non-Scheduled Facilities that reflect, for each Dispatch Interval in the Week-Ahead Schedule Horizon:

- (a) the Market Participant's reasonable expectation of the Injection and Withdrawal capability of the Non-Scheduled Facility, allowing for any known tests or Outages of the Non-Scheduled Facility;
- (b) the Market Participant's Unconstrained Injection Forecast for the Non-Scheduled Facility; and
- (c) the Market Participant's Unconstrained Withdrawal Forecast for the Non-Scheduled Facility.

82.9 Clause 7.4.5(a)(i) is deleted and replaced with the following:

- i. offer a quantity of the relevant Frequency Co-optimised Essential System Service greater than or equal to the lower of:
  - 1. the sum of the relevant Base ESS Quantity and SESSM Availability Quantity; and
  - 2. the lowest Remaining Available Capacity for that Frequency Co-optimised Essential System Service under any Outage applying to the Registered Facility in the Dispatch Interval, or, if there are no applicable Outages, the relevant maximum accredited quantity of that Frequency Co-optimised Essential System Service for the Registered Facility,
 in Price-Quantity Pairs; and

82.10 Clause 7.4.5(a)(ii) is amended by:

- (a) inserting the word 'SESSM' immediately after the words 'relating to the'; and
- (b) deleting the word 'and' after the semi-colon at the end of the clause.

82.11 Clause 7.4.5(b) is deleted and replaced with the following:

- (b) where the Reference Scenario for a Pre-Dispatch Interval projects a shortfall in an awarded Frequency Co-optimised Essential System Service, ensure that the Real-Time Market Submissions for the Registered Facility and Frequency Co-optimised Essential System Service for that Pre-Dispatch Interval are offering a quantity of the relevant Frequency Co-optimised Essential System Service greater than or equal to the lowest Remaining Available Capacity for that Frequency Co-optimised Essential System Service under any Outage applying to the Registered Facility in the Pre-Dispatch Interval, or, if there are no applicable Outages, the relevant maximum accredited quantity of the Frequency Co-optimised Essential System Service for the Registered Facility; and

82.12 Insert the following new clause 7.4.5(c):

- (c) where the Reference Scenario for a Pre-Dispatch Interval or Dispatch Interval projects that the Registered Facility will be enabled to provide an awarded Frequency Co-optimised Essential System Service, ensure that the Real-Time Market Submissions for the Registered Facility for that Pre-Dispatch Interval or Dispatch Interval:
  - i. present the relevant Essential System Service Enablement Quantity as In-Service Capacity; and
  - ii. offer sufficient capacity as In-Service Capacity for energy to allow the Registered Facility to be dispatched for energy between any relevant Enablement Limits.

82.13 Clause 7.4.6 is amended by:

- (a) deleting the word 'an' immediately after the words 'Registered Facility must submit'; and
- (b) deleting the word 'practical' and replacing it with the word 'practicable'.

82.14 Clause 7.4.7 is deleted and replaced with the following:

7.4.7. [Blank]

82.15 Clause 7.4.8 is deleted and replaced with the following:

- 7.4.8. A Market Participant must ensure that each Real-Time Market Submission for energy for its Non-Scheduled Facility includes:
- (a) if the Market Participant intends the Non-Scheduled Facility to be Injecting at the end of the Dispatch Interval, a single Price-Quantity Pair with:

- i. a quantity equal to the intended maximum Injection MW level for the Dispatch Interval; and
  - ii. a price equal to the Energy Offer Price Floor when converted into a Loss Factor Adjusted Price; and
- (b) otherwise, a single Price-Quantity Pair with:
  - i. a quantity equal to the intended maximum Withdrawal MW level for the Dispatch Interval; and
  - ii. a price equal to the Energy Offer Price Ceiling when converted into a Loss Factor Adjusted Price.

82.16 Clause 7.4.9 is deleted and replaced with the following:

7.4.9. [Blank]

82.17 Clause 7.4.10 is amended by deleting the words 'Offer in a Real-Time Market'.

82.18 Clause 7.4.10(b) is amended by deleting the words 'a non-zero Dispatch Instruction' and replacing them with the words 'a Dispatch Instruction with a non-zero MW quantity'.

82.19 Clause 7.4.11 is amended by:

- (a) deleting the word 'Offers' and replacing it with the word 'Submissions'; and
- (b) deleting the words 'in a Real-Time Market Submission'.

82.20 The heading '**Real-Time Market Submissions for Demand Side Programmes**' immediately after clause 7.4.11 is deleted.

82.21 Clause 7.4.12 is deleted and replaced with the following:

7.4.12. [Blank]

82.22 Clause 7.4.13 is deleted and replaced with the following:

7.4.13. [Blank]

82.23 Clause 7.4.14 is deleted and replaced with the following:

7.4.14. [Blank]

82.24 Clause 7.4.15 is deleted and replaced with the following:

7.4.15. [Blank]

82.25 Clause 7.4.16 is deleted and replaced with the following:

7.4.16. [Blank]

82.26 Clause 7.4.17 is deleted and replaced with the following:

7.4.17. [Blank]

82.27 Clause 7.4.18 is deleted and replaced with the following:

7.4.18. [Blank]

82.28 Clause 7.4.19 is deleted and replaced with the following:

7.4.19. [Blank]

82.29 Clause 7.4.20 is deleted and replaced with the following:

7.4.20. [Blank]

82.30 The heading '**Real-Time Market Submissions: Timing**' immediately above clause 7.4.21 is deleted and replaced with the following:

**Real-Time Market Submissions – Timing**

82.31 Clause 7.4.21 is deleted and replaced with the following:

7.4.21. AEMO must specify a Real-Time Market Submission Acceptance Horizon in a WEM Procedure.

82.32 Clause 7.4.22 is deleted and replaced with the following:

7.4.22. The Real-Time Market Submission Acceptance Horizon must not be less than four weeks before the relevant Dispatch Interval.

82.33 Clause 7.4.23 is deleted and replaced with the following:

7.4.23. Subject to clause 7.4.35, a Market Participant may submit a Real-Time Market Submission for a Dispatch Interval at any time:

- (a) on or after the Real-Time Market Submission Acceptance Horizon for the Dispatch Interval; and
- (b) before the start of the Dispatch Interval.

82.34 Clause 7.4.24 is deleted and replaced with the following:

7.4.24. [Blank]

82.35 Clause 7.4.25 is deleted and replaced with the following:

7.4.25. [Blank]

82.36 Clause 7.4.26 is amended by deleting the words 'Where a subsequent Real-Time Market Submission is made under this section 7.4, a Market Participant must' and replacing them with the words 'Where a Market Participant makes a Real-Time Market Submission for a Registered Facility and Market Service for a Dispatch Interval in the Pre-Dispatch Schedule Horizon (including by submitting a new Standing Real-Time Market Submission for the Registered Facility and Market Service), the Market Participant must'.

82.37 Clause 7.4.26(b) is amended by deleting the words 'where the Real-Time Market Submission relates to Dispatch Intervals within the Pre-Dispatch Schedule Horizon,'.



82.38 Clause 7.4.27(b) is amended by deleting the words 'where the Real-Time Market Submission relates to Dispatch Intervals within the Pre-Dispatch Schedule Horizon,'.

82.39 Clause 7.4.28 is deleted and replaced with the following:

7.4.28. Where a Market Participant makes a Real-Time Market Submission that meets the conditions specified in clauses 7.4.26 or 7.4.27, the Economic Regulation Authority may request the Market Participant to provide further information about the reasons provided under clauses 7.4.26(a) or 7.4.27(a) (as applicable), including any records created under clauses 7.4.26(b) or 7.4.27(b) (as applicable).

82.40 Clause 7.4.35 is deleted and replaced with the following:

7.4.35. A Market Participant must not make a Real-Time Market Submission for a Dispatch Interval after Gate Closure for the Dispatch Interval, except where the Real-Time Market Submission is made for the sole purpose of:

- (a) adjusting the Unconstrained Injection Forecast or Unconstrained Withdrawal Forecast for a Semi-Scheduled Facility or Non-Scheduled Facility;
- (b) adjusting Available Capacity, In-Service Capacity and quantities in Price-Quantity Pairs for a Registered Facility that has suffered a Forced Outage, to reflect the Registered Facility's Remaining Available Capacity under that Forced Outage;
- (c) adjusting the Dispatch Inflexibility Profile of a Scheduled Facility or Semi-Scheduled Facility to reflect a delay in starting the Facility; or
- (d) complying with clause 7.6.31(a) in respect of a Registered Facility that has become Inflexible.

82.41 Clause 7.4.36 is deleted and replaced with the following:

7.4.36. AEMO must use the most recent Real-Time Market Submissions (as determined in accordance with clauses 7.4.1A, 7.4.1B and 7.4.1C) in the scheduling and dispatch of Registered Facilities in accordance with this Chapter 7.

82.42 Clause 7.4.37 is deleted and replaced with the following:

7.4.37. A Market Participant, for a Scheduled Facility, Semi-Scheduled Facility or Interruptible Load:

- (a) is only required to review, and if necessary update, Real-Time Market Submissions for Dispatch Intervals outside the Pre-Dispatch Schedule Horizon once per day; and

- (b) is not required to review and update Real-Time Market Submissions for Dispatch Intervals for which Gate Closure has passed, except for events referred to in clauses 7.4.35(b), 7.4.35(c) or 7.4.35(d).

82.43 Insert the following new clause 7.4.37A:

7.4.37A. A Market Participant is not required to review or revise a Real-Time Market Submission for a Non-Scheduled Facility except where the Market Participant:

- (a) is intending to take controlled action to vary the Injection or Withdrawal of the Non-Scheduled Facility; or
- (b) has revised the information used to develop the Real-Time Market Submission for the Non-Scheduled Facility,

for a Dispatch Interval in the Pre-Dispatch Schedule Horizon, in which case the Market Participant must make reasonable endeavours to update the Real-Time Market Submission to reflect the revised information.

82.44 Clause 7.4.38 is amended by inserting the words 'the options to submit multiple Real-Time Market Submissions to AEMO in a single electronic submission,' immediately after the words 'Real-Time Market Submissions, including'.

82.45 Clause 7.4.39 is deleted and replaced with the following:

7.4.39. A Real-Time Market Submission must specify:

- (a) the Registered Facility;
- (b) the Market Service;
- (c) the Dispatch Interval;
- (d) the reason for revision of the Real-Time Market Submission, if required under clause 7.4.26(a);
- (e) the reason for any difference between the values provided in the Real-Time Market Submission and the corresponding Standing Data values, if required under clause 7.4.27(a);
- (f) the information specified in clauses 7.4.40 to 7.4.42 as applicable; and
- (g) any other information specified in the WEM Procedure to be documented by AEMO under clause 7.4.38.

82.46 Clause 7.4.40 is amended by deleting the words 'Injection or Withdrawal by a Registered Facility' and replacing them with the word 'energy'.

82.47 Clause 7.4.40(g) is deleted and replaced with the following:

- (g) up to the number of Price-Quantity Pairs specified in the WEM Procedure referred to in clause 7.4.38, where:

- i. for each Price-Quantity Pair:
  - 1. the price is to be stated in dollars and whole cents per MWh;
  - 2. the quantity is to be identified as either Available Capacity or In-Service Capacity; and
  - 3. if the quantity is classified as Available Capacity, the Start Decision Cutoff for the quantity is to be provided in minutes;
- ii. the sum of all positive MW quantities is to equal the total of Available Capacity and In-Service Capacity for Injection; and
- iii. the sum of all negative MW quantities is to equal the total of Available Capacity and In-Service Capacity for Withdrawal;

82.48 Clause 7.4.40(h) is amended by deleting the full stop at the end of the clause and replacing it with the word '; and'.

82.49 Insert the following new clause 7.4.40(i):

- (i) for a Semi-Scheduled Facility or Non-Scheduled Facility:
  - i. the Unconstrained Injection Forecast; and
  - ii. the Unconstrained Withdrawal Forecast.

82.50 Clause 7.4.41(a) is amended by deleting the words 'total accredited' and replacing them with the words 'maximum accredited'.

82.51 Clause 7.4.41(h) is deleted and replaced with the following:

- (h) a ranking of Price-Quantity Pairs with MW quantities summing to the total of Available Capacity and In-Service Capacity for the Frequency Co-optimised Essential System Service where the prices are to be stated in dollars and whole cents per MW per hour.

82.52 Clause 7.4.42(a) is amended by deleting the words 'total accredited' and replacing them with the words 'maximum accredited'.

82.53 Clause 7.4.42(f) is amended by deleting the words 'maximum available quantity of' and replacing them with the words 'total of Available Capacity and In-Service Capacity for'.

82.54 Clause 7.4.43 is amended by inserting the words 'for energy' immediately after the words 'Market Submission'.

82.55 Clause 7.4.46 is amended by deleting the words 'represents sent-out quantities, and'.

82.56 Clause 7.4.48 is deleted and replaced with the following:

- 7.4.48. On receipt of an electronic submission containing one or more Real-Time Market Submissions in accordance with this section 7.4, AEMO must as soon as practicable:

- (a) acknowledge receipt of the electronic submission to the submitting Market Participant; and
- (b) determine whether the Real-Time Market Submissions in the electronic submission comply with the following requirements, as applicable:
  - i. the content requirements in clauses 7.4.10(a), 7.4.39, 7.4.40, 7.4.41, 7.4.42, 7.4.44, 7.4.45, 7.4.47(b) and 7.4.47(c);
  - ii. the pricing requirements in clause 7.4.8;
  - iii. the quantity requirements in clause 7.4.11; and
  - iv. the timing requirements in clause 7.4.23.

82.57 Clause 7.4.49 is deleted and replaced with the following:

7.4.49. Where AEMO:

- (a) determines that an electronic submission complies with the requirements in clause 7.4.48(b), AEMO must:
  - i. accept the Real-Time Market Submissions and notify the submitting Market Participant that the Real-Time Market Submissions have been accepted, and
  - ii. make available to the Market Participant the data contained in the Real-Time Market Submissions as they will be used by AEMO in the Central Dispatch Process, including Loss Factor Adjusted Prices and non-Loss Factor Adjusted Prices; or
- (b) determines that the electronic submission, or any part of it, does not comply with the requirements referred to in clause 7.4.48(b), AEMO must:
  - i. reject the electronic submission and notify the submitting Market Participant that it has been rejected, and
  - ii. provide details of the reasons the electronic submission was rejected.

82.58 The heading '**Real-Time Market Submissions: Processing**' immediately above clause 7.4.50 is deleted and replaced with the following:

#### **Real-Time Market Submissions – Processing**

82.59 Clause 7.4.51 is amended by inserting the word 'determined' immediately after the words 'Loss Factor Adjusted Price'.

82.60 The heading '**Real-Time Market Submissions: Standing Submissions**' immediately above clause 7.4.54 is deleted and replaced with the following:

#### **Real-Time Market Submissions – Standing Submissions**

82.61 Clause 7.4.54 is deleted and replaced with the following:

7.4.54. A Market Participant may submit Standing Real-Time Market Submissions for a Registered Facility and Market Service at any time before Gate Closure for the first Dispatch Interval to which the submissions apply.

82.62 Clause 7.4.55 is deleted and replaced with the following:

7.4.55. The Standing Real-Time Market Submissions in an electronic submission to AEMO for a Registered Facility and Market Service must, in combination, uniquely specify the default Real-Time Market Submission to apply for each Dispatch Interval in a generic Trading Week.

82.63 Clause 7.4.56 is deleted and replaced with the following:

7.4.56. An electronic submission containing Standing Real-Time Market Submissions must specify the first Dispatch Interval to which the submissions apply.

82.64 Clause 7.4.57 is deleted and replaced with the following:

7.4.57. Subject to clause 7.4.55, a Market Participant may specify the type of Trading Day to which a Standing Real-Time Market Submission applies as:

- (a) all Trading Days starting on a specific day of the week;
- (b) all Trading Days starting on a weekday;
- (c) all Trading Days starting on a weekend;
- (d) all Trading Days starting on a Business Day;
- (e) all Trading Days starting on a non-Business Day; or
- (f) all Trading Days.

82.65 Insert the following new clause 7.4.57A:

7.4.57A. AEMO must document in a WEM Procedure the format and methodology to be followed by Market Participants for making Standing Real-Time Market Submissions, including the options to submit Standing Real-Time Market Submissions for multiple Registered Facilities and Market Services in a single electronic submission.

82.66 Clause 7.4.58 is deleted and replaced with the following:

7.4.58. On receipt of an electronic submission containing one or more Standing Real-Time Market Submissions, AEMO must, as soon as practicable:

- (a) acknowledge receipt of the electronic submission to the submitting Market Participant; and
- (b) determine whether the Standing Real-Time Market Submissions in the electronic submission comply with the following requirements:

- i. the content requirements in clauses 7.4.55, 7.4.56 and 7.4.57;
- ii. the timing requirement in clause 7.4.54; and
- iii. for each Standing Real-Time Market Submission in the electronic submission, as applicable:
  - 1. the content requirements in clauses 7.4.10(a), 7.4.39, 7.4.40, 7.4.41, 7.4.42, 7.4.44, 7.4.45, 7.4.47(b) and 7.4.47(c);
  - 2. the pricing requirements in clause 7.4.8; and
  - 3. the quantity requirements in clause 7.4.11.

82.67 Clause 7.4.59 is deleted and replaced with the following:

7.4.59. Where AEMO:

- (a) determines that an electronic submission complies with the requirements in clause 7.4.58(b), AEMO must:
  - i. accept the Standing Real-Time Market Submissions and notify the submitting Market Participant that the Standing Real-Time Market Submissions have been accepted, and
  - ii. make available to the Market Participant the data contained in the Standing Real-Time Market Submissions as it will be used by AEMO in the Central Dispatch Process; or
- (b) determines that the electronic submission, or any part of it, does not comply with the requirements referred to in clause 7.4.58(b), AEMO must:
  - i. reject the electronic submission and notify the submitting Market Participant that it has been rejected, and
  - ii. provide details of the reasons the electronic submission was rejected.

82.68 Insert the following new clause 7.4.59A:

7.4.59A. A Standing Real-Time Market Submission for a Registered Facility and Market Service that AEMO accepts under clause 7.4.59(a) replaces any previously accepted Standing Real-Time Market Submission for Dispatch Intervals from the Dispatch Interval specified in clause 7.4.56.

82.69 Clause 7.4.60 is amended by:

- (a) inserting the words 'for energy' immediately after the words 'When AEMO uses a Standing Real-Time Market Submission';
- (b) deleting the words 'prices in a' and replacing them with the words 'prices in the'; and

- (c) deleting the words 'for energy' immediately before the words 'into Loss Factor Adjusted Prices'.

82.70 Clause 7.4.61 is amended by deleting the word 'Submission' and replacing it with the word 'Submissions'.

82.71 Clause 7.4.62 is deleted and replaced with the following:

**Real-Time Market Submissions and Standing Real-Time Market Submissions – Process Documentation**

7.4.62. AEMO must document in a WEM Procedure the processes it must follow when:

- (a) acknowledging receipt of a Real-Time Market Submission under clause 7.4.48(a) or a Standing Real-Time Market Submission under clause 7.4.58(a);
- (b) validating a Real-Time Market Submission in accordance with clause 7.4.48(b) or a Standing Real-Time Market Submission in accordance with clause 7.4.58(b); and
- (c) accepting or rejecting a Real-Time Market Submission in accordance with clause 7.4.49 or a Standing Real-Time Market Submission in accordance with clause 7.4.59.

**83. Section 7.4A added**

83.1 Insert the following new section 7.4A:

**7.4A. DSP Withdrawal Profile Submissions**

7.4A.1. A Market Participant must ensure that it has made a DSP Withdrawal Profile Submission or Standing DSP Withdrawal Profile Submission in accordance with this section 7.4A for each Dispatch Interval in the Week-Ahead Schedule Horizon for each of its Demand Side Programmes.

7.4A.2. If AEMO has not accepted a DSP Withdrawal Profile Submission for a Demand Side Programme and Dispatch Interval under clause 7.4A.15(a), but has accepted an applicable Standing DSP Withdrawal Profile Submission, then the Standing DSP Withdrawal Profile Submission is deemed to be the DSP Withdrawal Profile Submission for the Demand Side Programme and Dispatch Interval.

7.4A.3. A DSP Withdrawal Profile Submission for a Demand Side Programme and Dispatch Interval that AEMO accepts under clause 7.4A.15(a) replaces any previously accepted DSP Withdrawal Profile Submission for, and has effect in relation to, the Demand Side Programme and Dispatch Interval.

7.4A.4. If:

- (a) AEMO has not yet accepted a DSP Withdrawal Profile Submission for a Demand Side Programme and Dispatch Interval under clause 7.4A.15(a); and
  - (b) AEMO accepts a Standing DSP Withdrawal Profile Submission for the Demand Side Programme that is applicable to the Dispatch Interval,
- then the Standing DSP Withdrawal Profile Submission replaces any previously accepted Standing DSP Withdrawal Profile Submission as the deemed DSP Withdrawal Profile Submission for the Demand Side Programme and Dispatch Interval.
- 7.4A.5. If AEMO identifies a Demand Side Programme in a Market Advisory under clause 7.11.6(cA)(i), then the relevant Market Participant must:
- (a) as soon as practicable review, and if necessary update, the DSP Withdrawal Profile Submissions for the Demand Side Programme for, subject to clause 7.4A.9A, each future Dispatch Interval before the end of the Trading Day in which the period specified under clause 7.11.6(cA)(ii) falls; and
  - (b) for the purposes of determining DSP Constrained Withdrawal Quantities, assume the Demand Side Programme will be subject to Dispatch Instructions that curtail the Withdrawal of the Demand Side Programme by the maximum quantity consistent with its Reserve Capacity Obligations for the period specified under clause 7.11.6(cA)(ii).
- 7.4A.6. If AEMO issues a Dispatch Instruction with a non-zero MW quantity to a Demand Side Programme under clause 7.6.15, then the Market Participant must:
- (a) as soon as practicable and no later than one hour before the Dispatch Interval from which the Dispatch Instruction applies, review, and if necessary update, the DSP Withdrawal Profile Submissions for the Demand Side Programme for, subject to clause 7.4A.9A, each future Dispatch Interval before the end of the Trading Day in which the Dispatch Interval specified under clause 7.6.11A(c) falls; and
  - (b) for the purposes of determining the applicable DSP Constrained Withdrawal Quantities, take into account the timeframes and quantities in the Dispatch Instructions that have been issued to the Demand Side Programme and assume that AEMO will issue a Dispatch Instruction with a zero MW quantity that will apply from the Dispatch Interval specified under clause 7.6.11A(e).
- 7.4A.7. If AEMO issues a Dispatch Instruction with a zero MW quantity to a Demand Side Programme under clause 7.6.15, then the Market Participant must:



- (a) as soon as practicable and no later than one hour before the Dispatch Interval from which the Dispatch Instruction applies, review, and if necessary update, the DSP Withdrawal Profile Submissions for the Demand Side Programme for, subject to clause 7.4A.9A, each future Dispatch Interval in the Trading Day in which the Dispatch Interval specified under clause 7.6.11A(c) falls; and
  - (b) for the purposes of determining the applicable DSP Constrained Withdrawal Quantities, take into account the time from which the Dispatch Instruction will apply.
- 7.4A.8. If a Market Participant receives a notification relating to a Reserve Capacity Test of a Demand Side Programme under clause 4.25.9(h), the Market Participant must:
  - (a) as soon as practicable and no later than one hour before the Reserve Capacity Test is due to commence, review and update the DSP Withdrawal Profile Submissions for the Demand Side Programme for, subject to clause 7.4A.9A, each future Dispatch Interval in the Trading Day in which Reserve Capacity Test will be conducted; and
  - (b) take the information provided in the notification under clause 4.25.9(h) into account in determining the relevant DSP Constrained Withdrawal Quantities.
- 7.4A.9. A Market Participant must make reasonable endeavours to ensure that when any of the conditions specified in clauses 7.4A.5, 7.4A.6, 7.4A.7 or 7.4A.8 apply, the DSP Unconstrained Withdrawal Quantities and DSP Constrained Withdrawal Quantities in its DSP Withdrawal Profile Submissions for the Demand Side Programme accurately reflect the Market Participant's reasonable expectation of the Withdrawal of the Demand Side Programme during the applicable Dispatch Intervals under the required assumptions.
- 7.4A.9A. For the purposes of updating DSP Withdrawal Profile Submissions under clauses 7.4A.5, 7.4A.6, 7.4A.7 or 7.4A.8, a Market Participant must not include a future Dispatch Interval in its updated DSP Withdrawal Profile Submissions, where the Market Participant reasonably determines that despite its best endeavours, its updated DSP Withdrawal Profile Submissions for the Dispatch Interval will not be received by AEMO before the start of the Dispatch Interval.

#### **DSP Withdrawal Profile Submissions – Timing**

- 7.4A.10. A Market Participant may submit a DSP Withdrawal Profile Submission for a Dispatch Interval at any time:
  - (a) on or after the Real-Time Market Submission Acceptance Horizon for the Dispatch Interval; and

- (b) before the start of the Dispatch Interval.
- 7.4A.11. AEMO must use the most recent DSP Withdrawal Profile Submission (as determined in accordance with clauses 7.4A.2, 7.4A.3 and 7.4A.4) in the scheduling and dispatch of Demand Side Programmes in accordance with this Chapter 7.

#### **DSP Withdrawal Profile Submissions – Format**

- 7.4A.12. AEMO must document in a WEM Procedure the format and methodology to be followed by Market Participants for making DSP Withdrawal Profile Submissions, including the options to submit multiple DSP Withdrawal Profile Submissions to AEMO in a single electronic submission.
- 7.4A.13. A DSP Withdrawal Profile must specify:
  - (a) the Demand Side Programme;
  - (b) the Dispatch Interval;
  - (c) a DSP Unconstrained Withdrawal Quantity;
  - (d) a DSP Constrained Withdrawal Quantity; and
  - (e) any other information specified in the WEM Procedure to be documented by AEMO under clause 7.4A.12.

#### **DSP Withdrawal Profile Submissions – Validation**

- 7.4A.14. On receipt of an electronic submission containing one or more DSP Withdrawal Profile Submissions in accordance with this section 7.4A, AEMO must as soon as practicable:
  - (a) acknowledge receipt of the electronic submission to the submitting Market Participant; and
  - (b) determine whether the DSP Withdrawal Profile Submissions in the electronic submission comply with the following requirements, as applicable:
    - i. the content requirements in clause 7.4A.13; and
    - ii. the timing requirements in clause 7.4A.10.
- 7.4A.15. Where AEMO:
  - (a) determines that an electronic submission complies with the requirements in clause 7.4A.14(b), AEMO must accept the DSP Withdrawal Profile Submissions and notify the submitting Market Participant that the DSP Withdrawal Profile Submissions have been accepted, or

- (b) determines that the electronic submission, or any part of it, does not comply with the requirements referred to in clause 7.4A.14(b), AEMO must:
  - i. reject the electronic submission and notify the submitting Market Participant that it has been rejected, and
  - ii. provide details of the reasons the electronic submission was rejected.

### **DSP Withdrawal Profile Submissions – Standing Submissions**

- 7.4A.16. A Market Participant may submit Standing DSP Withdrawal Profile Submissions for a Demand Side Programme at any time up to two hours before the first Dispatch Interval to which the submissions apply.
- 7.4A.17. The Standing DSP Withdrawal Profile Submissions in an electronic submission to AEMO for a Demand Side Programme must, in combination, uniquely specify the default DSP Withdrawal Profile Submission to apply for each Dispatch Interval in a generic Trading Week.
- 7.4A.18. An electronic submission containing Standing DSP Withdrawal Profile Submissions must specify the first Dispatch Interval to which the submissions apply.
- 7.4A.19. Subject to clause 7.4A.17, a Market Participant may specify the type of Trading Day to which a Standing DSP Withdrawal Profile Submission applies as:
  - (a) all Trading Days starting on a specific day of the week;
  - (b) all Trading Days starting on a weekday;
  - (c) all Trading Days starting on a weekend;
  - (d) all Trading Days starting on a Business Day;
  - (e) all Trading Days starting on a non-Business Day; or
  - (f) all Trading Days.
- 7.4A.20. AEMO must document in a WEM Procedure the format and methodology to be followed by Market Participants for making Standing DSP Withdrawal Profile Submissions, including the options to submit Standing DSP Withdrawal Profile Submissions for multiple Demand Side Programmes in a single electronic submission.
- 7.4A.21. On receipt of an electronic submission containing one or more Standing DSP Withdrawal Profile Submissions, AEMO must, as soon as practicable:
  - (a) acknowledge receipt of the electronic submission to the submitting Market Participant; and

- (b) determine whether the Standing DSP Withdrawal Profile Submissions in the electronic submission comply with the following requirements:
  - i. the content requirements in clauses 7.4A.17, 7.4A.18 and 7.4A.19;
  - ii. the timing requirement in clause 7.4A.16; and
  - iii. for each Standing DSP Withdrawal Profile Submission in the electronic submission, the content requirements in clause 7.4A.13.

7.4A.22. Where AEMO:

- (a) determines that an electronic submission complies with the requirements in clause 7.4A.21(b), AEMO must accept the Standing DSP Withdrawal Profile Submissions and notify the submitting Market Participant that the Standing DSP Withdrawal Profile Submissions have been accepted; or
- (b) determines that the electronic submission, or any part of it, does not comply with the requirements referred to in clause 7.4A.21(b), AEMO must:
  - i. reject the electronic submission and notify the submitting Market Participant that it has been rejected, and
  - ii. provide details of the reasons the electronic submission was rejected.

7.4A.23. A Standing DSP Withdrawal Profile Submission for a Demand Side Programme that AEMO accepts under clause 7.4A.22(a) replaces any previously accepted Standing DSP Withdrawal Profile Submission for Dispatch Intervals from the Dispatch Interval specified in clause 7.4A.18.

#### **DSP Withdrawal Profile Submissions and Standing DSP Withdrawal Profile Submissions – Process Documentation**

7.4A.24. AEMO must document in a WEM Procedure the processes it must follow when:

- (a) acknowledging receipt of a DSP Withdrawal Profile Submission under clause 7.4A.14(a) or a Standing DSP Withdrawal Profile Submission under clause 7.4A.21(a);
- (b) validating a DSP Withdrawal Profile Submission in accordance with clause 7.4A.14(b) or a Standing DSP Withdrawal Profile Submission in accordance with clause 7.4A.21(b); and
- (c) accepting or rejecting a DSP Withdrawal Profile Submission in accordance with clause 7.4A.15 or a Standing DSP Withdrawal Profile Submission in accordance with clause 7.4A.22.

#### **84. Section 7.5 amended**

- 84.1 Clause 7.5.2(c) is amended by deleting the word 'Alternate' and replacing it with the word 'Alternative'.
- 84.2 Clause 7.5.8(b) is amended by deleting the word 'Co-Optimised' and replacing it with the word 'Co-optimised'.
- 85. Section 7.6 amended**
- 85.1 Clause 7.6.1 is amended by inserting the words 'Scheduled Facilities, Semi-Scheduled Facilities and Interruptible Loads based on their' immediately after the words 'AEMO must centrally dispatch'.
- 85.2 Clause 7.6.2 is amended by deleting the words ', Demand Side Programme'.
- 85.3 Clause 7.6.4(b) is amended by deleting the word 'section' and replacing it with the word 'clause'.
- 85.4 Clause 7.6.5 is amended by deleting the words 'in respect of a Dispatch Interval'.
- 85.5 Insert the following new clause 7.6.5A:
- 7.6.5A. AEMO may issue Dispatch Instructions to a Demand Side Programme where AEMO reasonably considers that the dispatch of a Demand Side Programme is required to restore or maintain Power System Security or Power System Reliability.
- 85.6 Insert the following new clause 7.6.5B:
- 7.6.5B. AEMO must issue Dispatch Instructions to Demand Side Programmes in accordance with the following principles:
- (a) AEMO must not issue Dispatch Instructions to a Demand Side Programme that restrict the absolute value of Withdrawal below the Facility's Relevant Level by more than the Facility's Reserve Capacity Obligation Quantity in a Dispatch Interval, except with the prior agreement of the Market Participant; and
  - (b) when selecting Demand Side Programmes for dispatch to meet a potential energy shortfall, AEMO must:
    - i. take into account Market Schedules and any information provided by Market Participants in response to a Market Advisory issued under clause 7.11.5(gA) for the relevant period;
    - ii. avoid the dispatch of Demand Side Programmes beyond the extent that AEMO considers may reasonably be necessary to restore or maintain Power System Security and Power System Reliability;
    - iii. where a Demand Side Programme has an Associated Load which is also an Associated Load of an Interruptible Load, and that

Interruptible Load is expected to provide an Essential System Service during the relevant period, prefer dispatch of other Demand Side Programmes; and

- iv. only discriminate between Demand Side Programmes based on response time and availability, except where required under clause 7.6.5B(b)(iii).

85.7 Insert the following new clause 7.6.5C:

7.6.5C. AEMO must document in a WEM Procedure:

- (a) how AEMO will determine that the dispatch of Demand Side Programmes under clause 7.6.5A may be required; and
- (b) the process that AEMO will use to select Demand Side Programmes for dispatch, which must be consistent with the principles specified in clause 7.6.5B.

85.8 Clause 7.6.8 is deleted and replaced with the following:

7.6.8. For each Dispatch Instruction for a Scheduled Facility, Semi-Scheduled Facility or Interruptible Load, AEMO must record:

- (a) details of the Registered Facility to which the Dispatch Instruction relates;
- (b) the time the Dispatch Instruction was issued;
- (c) the Dispatch Interval to which the Dispatch Instruction applies;
- (d) for a Scheduled Facility or Semi-Scheduled Facility:
  - i. the Dispatch Target or Dispatch Cap for the Dispatch Interval, as applicable, under clause 7.6.10 or 7.6.11;
  - ii. where the Registered Facility is a Semi-Scheduled Facility, the Dispatch Forecast for the Dispatch Interval;
  - iii. where AEMO has agreed to process Dispatch Targets or Dispatch Caps for the Registered Facility on an as-generated basis, the equivalent as-generated values for the Dispatch Target, Dispatch Cap or Dispatch Forecast as applicable; and
  - iv. Essential System Service Enablement Quantities; and
- (e) for an Interruptible Load:
  - i. Essential System Service Enablement Quantities.

85.9 Clause 7.6.9 is amended by deleting the words 'clause 7.6.8' and replacing them with the words 'clauses 7.6.8 or 7.6.11A'.

85.10 Insert the following new clause 7.6.11A:

7.6.11A. For each Dispatch Instruction issued for a Demand Side Programme, AEMO must record:

- (a) details of the Demand Side Programme to which the Dispatch Instruction relates;
- (b) the time the Dispatch Instruction was issued;
- (c) the Dispatch Interval from which the Dispatch Instruction applies, where this must be the first Dispatch Interval of a Trading Interval;
- (d) the MW quantity representing the required Withdrawal restriction, where:
  - i. a non-zero MW quantity represents a required reduction in the absolute value of Withdrawal from the Relevant Demand for the Demand Side Programme; and
  - ii. a zero MW quantity indicates that the Demand Side Programme is no longer required to restrict its Withdrawal; and
- (e) if a non-zero MW quantity is specified, the estimated Dispatch Interval from which the Dispatch Instruction may no longer apply, where this must be the first Dispatch Interval of a Trading Interval.

85.11 Clause 7.6.12 is deleted and replaced with the following:

7.6.12. AEMO must not issue Dispatch Instructions to Non-Scheduled Facilities, but must:

- (a) use the Real-Time Market Submissions of Non-Scheduled Facilities as input to the Dispatch Algorithm;
- (b) treat Non-Scheduled Facilities as Inflexible for the purposes of the Dispatch Algorithm; and
- (c) record the Dispatch Forecast determined by the Dispatch Algorithm for each Non-Scheduled Facility for each Dispatch Interval.

85.12 Clause 7.6.13 is deleted and replaced with the following:

7.6.13. Where AEMO has issued a Dispatch Instruction with a non-zero MW quantity to a Demand Side Programme, the Market Participant must maintain an absolute MW level of Withdrawal from the Demand Side Programme less than or equal to the level required in the Dispatch Instruction from the start of the Dispatch Interval specified under clause 7.6.11A(c) until the start of the Dispatch Interval specified under clause 7.6.11A(c) for the next Dispatch Instruction issued to the Demand Side Programme.

85.13 Clause 7.6.13A is deleted and replaced with the following:

7.6.13A. Where AEMO has issued a Dispatch Instruction with a zero MW quantity to a Demand Side Programme, the Market Participant may, from the start of the

Dispatch Interval specified under clause 7.6.11A(c) for the Dispatch Instruction, increase the absolute MW level of Withdrawal of the Demand Side Programme above the level specified in the previous Dispatch Instruction.

85.14 Clause 7.6.14 is deleted and replaced with the following:

7.6.14. Subject to clause 7.10.14, unless the Dispatch Instruction is issued to implement a direction under clauses 3.4.4 or 3.5.5 or section 7.7, AEMO must determine the ramp rate in a Dispatch Instruction for a Scheduled Facility or Semi-Scheduled Facility using a linear profile between the Registered Facility's estimated Injection or Withdrawal at the start of the Dispatch Interval and at the end of the Dispatch Interval covered by the Dispatch Instruction.

85.15 Clause 7.6.15 is deleted and replaced with the following:

7.6.15. AEMO must issue a Dispatch Instruction to a Demand Side Programme before the Dispatch Interval from which the Dispatch Instruction applies, in accordance with the minimum response time specified for the Facility under Appendix 1(f)(iv).

85.16 Clause 7.6.16 is deleted and replaced with the following:

7.6.16. [Blank]

85.17 Clause 7.6.17 is deleted and replaced with the following:

7.6.17. Where AEMO issues a Dispatch Instruction to a Demand Side Programme, AEMO must review and if necessary adjust the Forecast Unscheduled Operational Demand for the relevant period to account for any expected changes to the Withdrawal of the Demand Side Programme's Associated Loads.

85.18 Clause 7.6.19 is amended by inserting the words 'Where a Market Participant is required to confirm the receipt of a Dispatch Instruction,' immediately before the words 'AEMO must'.

85.19 Clause 7.6.23(a) is amended by inserting the word 'and' after the semi-colon at the end of the clause.

85.20 Clause 7.6.23(b) is deleted and replaced with the following:

(b) ensure pro-rata loading of tied Price-Quantity Pairs.

85.21 Delete clause 7.6.23(c).

85.22 Delete clause 7.6.23(d).

85.23 Delete clause 7.6.23(e).

85.24 Clause 7.6.26 is amended by deleting the word 'Constraints' and replacing it with the words 'Constraint Equations' in each place where it occurs.

85.25 Clause 7.6.28 is deleted and replaced with the following:



7.6.28. AEMO may, where required for a Registered Facility or equipment to participate in the Central Dispatch Process, or to provide an Essential System Service, or otherwise by agreement with a Market Participant, control specified operations of a Registered Facility or equipment, including:

- (a) the starting, loading and stopping of one or more of the Market Participant's Scheduled Facilities; and
- (b) limiting the Injection or Withdrawal of one or more of the Market Participant's Semi-Scheduled Facilities.

85.26 Clause 7.6.31 is amended by deleting the words 'Registered Facility' and replacing them with the words 'Scheduled Facility, Semi-Scheduled Facility or Interruptible Load'.

#### **86. Section 7.7 amended**

86.1 Clause 7.7.3 is amended by:

- (a) deleting the words 'requires the total quantity of Essential System Service to be offered to reflect the maximum' and replacing them with the words 'requires a quantity specified by AEMO of Essential System Service to be offered up to the maximum'; and
- (b) deleting the words 'in the Dispatch Interval' and replacing them with the words 'in any of the Dispatch Intervals covered by the Low Reserve Condition Declaration'.

86.2 Clause 7.7.4(b) is amended by deleting the words 'In Service' and replacing them with the words 'In-Service'.

86.3 Clause 7.7.9 is deleted and replaced with the following:

7.7.9. A Dispatch Instruction issued by AEMO as a result of a direction issued by AEMO in accordance with this section 7.7 or under clauses 3.4.4, 3.4.5 or 3.5.5, must be consistent with the Registered Facility's data held by AEMO, including Standing Data, at the time the Dispatch Instruction is determined.

86.4 Clause 7.7.14 is amended by deleting the words 'clause 7.7.3, clause 7.7.4, or clause 7.7.5' and replacing them with the words 'clauses 7.7.3, 7.7.4 or 7.7.5'.

#### **87. Section 7.8 amended**

87.1 Clause 7.8.1 is amended by inserting the words ', make available to Market Participants' immediately after the words 'AEMO must determine'.

87.2 Clause 7.8.3 is amended by deleting the word 'publish' and replacing it with the word 'determine'.

87.3 Clause 7.8.4 is amended by deleting the word 'publishes' and replacing it with the word 'determines'.

87.4 Clause 7.8.5(b)(vi) is amended by deleting the word 'approved'.

87.5 Clause 7.8.6 is deleted and replaced with the following:

7.8.6. In determining Week-Ahead Schedules and Pre-Dispatch Schedules, AEMO must include Scenarios that:

- (a) include In-Service Capacity in Real-Time Market Submissions, and exclude Available Capacity in Real-Time Market Submissions;
- (b) use a higher load forecast than the Reference Scenario; and
- (c) use a lower load forecast than the Reference Scenario.

87.6 Clause 7.8.8 is deleted and replaced with the following:

7.8.8. AEMO may determine and make available to Market Participants any Market Schedule or DSP Schedule more frequently than specified in clauses 7.1.3(a)(iii) to 7.1.3(a)(vii).

**88. Section 7.8A added**

88.1 Insert the following new section 7.8A:

**7.8A. DSP Schedules**

7.8A.1. A DSP Pre-Dispatch Schedule or DSP Week-Ahead Schedule is a schedule that includes, for each Demand Side Programme, for each Dispatch Interval in the Pre-Dispatch Schedule Horizon or Week-Ahead Schedule Horizon (as applicable):

- (a) the DSP Unconstrained Withdrawal Quantity and DSP Constrained Withdrawal Quantity provided by the Market Participant in its DSP Withdrawal Profile Submission;
- (b) AEMO's reasonable estimate based on the information available to AEMO of:
  - i. the Demand Side Programme's Relevant Demand in the applicable Trading Interval;
  - ii. the sum of the Minimum Consumption of each Associated Load of the Demand Side Programme in the applicable Trading Interval; and
  - iii. the Reserve Capacity Obligation Quantity of the Demand Side Programme in the Dispatch Interval;
- (c) the DSP Forecast Capacity, determined by AEMO in accordance with clause 7.8A.3; and
- (d) the DSP Forecast Reduction, determined by AEMO in accordance with clause 7.8A.4.

7.8A.2. AEMO must determine, make available to Market Participants and publish on the WEM Website the following DSP Schedules in accordance with the Real-Time Market Timetable:

- (a) DSP Week-Ahead Schedules; and
- (b) DSP Pre-Dispatch Schedules.

7.8A.3. The DSP Forecast Capacity for a Demand Side Programme in a Dispatch Interval is:

$$\text{DSPForecastCapacity} = \max(0, \text{DSPUWQ} - \max(\text{MinLoad}, \text{RD} - \text{RCOQ}))$$

where:

DSPUWQ is the Unconstrained Withdrawal Quantity provided by the Market Participant in its DSP Withdrawal Profile Submission for the Demand Side Programme and Dispatch Interval;

MinLoad is AEMO's reasonable estimate, based on the information available to it, of the sum of Minimum Consumption of each Associated Load of the Demand Side Programme in the applicable Trading Interval;

RD is AEMO's reasonable estimate, based on the information available to it, of the Relevant Demand of the Demand Side Programme in the applicable Trading Interval; and

RCOQ is AEMO's reasonable estimate, based on the information available to it, of the Reserve Capacity Obligation Quantity of the Demand Side Programme in the Dispatch Interval.

7.8A.4. The DSP Forecast Reduction for a Demand Side Programme in a Dispatch Interval is:

$$\text{DSPForecastReduction} = \text{DSPUWQ} - \text{DSPCWQ}$$

where:

DSPUWQ is the Unconstrained Withdrawal Quantity provided by the Market Participant in its DSP Withdrawal Profile Submission for the Demand Side Programme and Dispatch Interval; and

DSPCWQ is the Constrained Withdrawal Quantity provided by the Market Participant in its DSP Withdrawal Profile Submission for the Demand Side Programme and Dispatch Interval.

## **89. Section 7.9 amended**

89.1 Clause 7.9.2 is amended by deleting the words 'In Service Capacity' and replacing them with the words 'In-Service Capacity'.

89.2 Clause 7.9.7(d) is amended by deleting the comma at the end of the clause and replacing it with a full stop.

89.3 Clause 7.9.10 is deleted and replaced with the following:

7.9.10. [Blank]

**90. Section 7.10 amended**

90.1 Clause 7.10.1 is deleted and replaced with the following:

7.10.1. A Market Participant must comply with the following in the most recently issued Dispatch Instruction applicable to its Scheduled Facility, Semi-Scheduled Facility or Interruptible Load for the Dispatch Interval:

- (a) the Dispatch Target or Dispatch Cap as applicable;
- (b) Essential System Service Enablement Quantities; and
- (c) Ramp Rate.

90.2 Insert the following new clause 7.10.1A:

7.10.1A. A Market Participant must comply with the most recently issued Dispatch Instruction applicable to its Demand Side Programme in a Dispatch Interval.

90.3 Clause 7.10.2(c)(ii) is amended by inserting the words 'the relevant' immediately after the words 'the quantity of'.

90.4 Clause 7.10.2(d) is amended by inserting the words 'or Dispatch Cap, as relevant' immediately after the words 'Dispatch Target'.

90.5 Insert the following new clause 7.10.2A:

7.10.2A. A Market Participant is not required to comply with clause 7.10.1A if such compliance would endanger the safety of any person, damage equipment or breach any applicable law.

90.6 Clause 7.10.5 is amended by deleting the word '7.10.2B' and replacing it with the word '7.10.4'.

90.7 Clause 7.10.15 is amended by deleting the word '7.10.15' and replacing it with the word '7.10.14'.

90.8 Clause 7.10.19 is amended by deleting the words 'instructions from AEMO's centralised control scheme' and replacing them with the words 'commands from AEMO's Automatic Generation Control System'.

90.9 Clause 7.10.21(e) is amended by deleting the words 'business days' and replacing them with the words 'Business Days'.

**91. Heading above section 7.11 amended**

- 91.1 The heading '**Market Advisories and Status Reports**' immediately above section 7.11 is deleted and replaced with the following:

**Market Advisories**

**92. Section 7.11 amended**

- 92.1 Clause 7.11.1 is amended by:
- (a) inserting the words 'on the WEM Website' immediately after the words 'published by AEMO'; and
  - (b) deleting the words 'Real Time' and replacing them with the words 'Real-Time'.
- 92.2 Clause 7.11.5 is amended by deleting the word '3.23' and replacing it with the word '3.22'.
- 92.3 Insert the following new clause 7.11.5(gA):
- (gA) AEMO reasonably considers that the dispatch of Demand Side Programmes may occur for a Trading Day as a result of a potential energy shortfall identified in accordance with the WEM Procedure referred to in clause 7.6.5C;
- 92.4 Clause 7.11.5(j) is amended by deleting the word '7.11.10.' and replacing it with the word '7.11.8,'.
- 92.5 Insert the following new clause 7.11.6(cA):
- (cA) where the Market Advisory relates to the circumstances described in clause 7.11.5(gA), AEMO's estimate of:
    - i. which Demand Side Programmes may be dispatched; and
    - ii. the period during which the Withdrawal of the Demand Side Programmes may potentially be curtailed;
- 92.6 Clause 7.11.6g) is deleted and replaced with the following:
- (g) where AEMO has developed the WEM Procedure referred to in clause 7.11.8, whether that WEM Procedure applies to the situation.

**93. Section 7.11B amended**

- 93.1 Clause 7.11B.3(c) is amended by deleting the words 'clause 3.6.6A, or has issued a non-zero Dispatch Instruction to a Demand Side Programme,' and replacing them with the words 'clause 3.4.4,'.

**94. Section 7.11C amended**

- 94.1 Clause 7.11C.1A is amended by deleting the word '7.11.C1' and replacing it with the word '7.11C.1'.
- 94.2 Clause 7.11C.5(a) is amended by deleting the words '12 months" and replacing them with the words '12-month'.

**95. Section 7.11D added**

95.1 Insert the following new section 7.11D and heading:

## **Real-Time Market Suspension and Administered Pricing**

### **7.11D. Real-Time Market Suspension**

7.11D.1. AEMO may suspend the Real-Time Market:

- (a) in the event of a system shutdown or major supply disruption;
- (b) when AEMO has been requested by the Minister, under clause 2.44.1, to suspend the market or operate all or part of the power system in connection with the exercise of emergency powers; or
- (c) when AEMO determines that it is necessary because it has become impossible to maintain Power System Security in accordance with the provisions of these WEM Rules due to:
  - i. failure of its IT systems;
  - ii. loss of communications or control systems required to maintain Power System Security; or
  - iii. any other reason as identified in the WEM Procedure published under clause 7.11D.4.

7.11D.2. Where AEMO deems, in its reasonable opinion, it is practicable to resume the Central Dispatch Process it must:

- (a) lift any suspension of the Real-Time Market at commencement of the next practicable Trading Interval, in accordance with the process described in the WEM Procedure referred to in clause 7.11D.4; and
- (b) resume the determination of Market Clearing Prices.

7.11D.3. AEMO must issue a Market Advisory when suspending or lifting the suspension of the Real-Time Market.

7.11D.4. AEMO must document in a WEM Procedure:

- (a) the process by which AEMO will determine to suspend the Real-Time Market;
- (b) the reasons AEMO may suspend the Real-Time Market;
- (c) the processes which Market Participants are required to follow during the suspension; and

- (d) the processes AEMO will follow during the suspension including the process to lift the suspension which must provide a notice period of not less than two hours.

**96. Section 7.11E added**

96.1 Insert the following new section 7.11E:

**7.11E. Administered Pricing in the Event of Market System Failure**

7.11E.1. If the Real-Time Market is suspended under clause 7.11D.1(a), AEMO must set the final Market Clearing Prices for each Market Service in any Dispatch Interval during the suspension as follows:

- (a) the Final Energy Market Clearing Price is to equal the Alternative Maximum STEM Price;
- (b) the Final Regulation Raise Market Clearing Price is to equal zero and the Essential System Service Enablement Quantity for each Registered Facility accredited for Regulation Raise for the Dispatch Interval is zero;
- (c) the Final Regulation Lower Market Clearing Price is to equal zero and the Essential System Service Enablement Quantity for each Registered Facility accredited for Regulation Lower for the Dispatch Interval is zero;
- (d) the Final Contingency Reserve Raise Market Clearing Price is to equal zero and the Essential System Service Enablement Quantity for each Registered Facility accredited for Contingency Reserve Raise for the Dispatch Interval is zero;
- (e) the Final Contingency Reserve Lower Market Clearing Price is to equal zero and the Essential System Service Enablement Quantity for each Registered Facility accredited for Contingency Reserve Lower for the Dispatch Interval is zero; and
- (f) the Final RoCoF Control Service Market Clearing Price is to equal zero and the RoCoF Control Service requirements for the Dispatch Interval is zero.

7.11E.2. If the Real-Time Market is suspended under clause 7.11D.1(b), AEMO must set the final Market Clearing Prices for each Market Service in any Dispatch Interval during the suspension as requested by the Minister.

7.11E.3. If the Real-Time Market is suspended under clause 7.11D.1(c), AEMO must set the final Market Clearing Prices for each Market Service in any Dispatch Interval during the suspension as the average final Market Clearing Price for that Market Service in the equivalent intervals in the four most recent completed Trading Weeks.

7.11E.4. Where, for the purposes of clause 7.11E.3, a Market Clearing Price is not available for a Market Service for an equivalent Dispatch Interval in the four most recent completed Trading Weeks referred to in clause 7.11E.3, AEMO must set the final Market Clearing Prices for each Market Service as follows:

- (a) where there is no Final Energy Market Clearing Price available for the equivalent Dispatch Interval, AEMO must set the Final Energy Market Clearing Price as the average price for energy from the most recently published price for energy for 28 consecutive Trading Days for the equivalent Dispatch Interval;
- (b) where there is no Final Regulation Raise Market Clearing Price available for the equivalent Dispatch Interval, AEMO must set the Final Regulation Raise Market Clearing Price as the average price for Regulation Raise, or equivalent service, from the most recently published price for the service for 28 consecutive Trading Days for the equivalent Dispatch Interval;
- (c) where there is no Final Regulation Lower Market Clearing Price available for the equivalent Dispatch Interval, AEMO must set the Final Regulation Lower Market Clearing Price as the average price for Regulation Lower, or equivalent service, from the most recently published price for the service for 28 consecutive Trading Days for the equivalent Dispatch Interval;
- (d) where there is no Final Contingency Reserve Raise Market Clearing Price available for the equivalent Dispatch Interval, AEMO must set the Final Contingency Reserve Raise Market Clearing Price as:

$$\text{Margin}(\text{di}) \times \text{Energy\_Price}(\text{di})$$

where:

- i. Margin is the Spinning Reserve margin price as the most recent determination by the Economic Regulation Authority for the equivalent Dispatch Interval; and
  - ii. Energy\_Price is the average price for energy from the most recently published energy prices for 28 consecutive Trading Days for the equivalent Dispatch Interval;
- (e) where there is no Final Contingency Reserve Lower Market Clearing Price available for the equivalent Dispatch Interval, AEMO must set the Final Contingency Reserve Lower Price Market Clearing Price using an estimation method that takes into account the quantum and price set by the Economic Regulation Authority for load rejection reserve; and
  - (f) where there is no Final RoCoF Control Service Market Clearing Price available for the equivalent Dispatch Interval, AEMO must set the RoCoF



Control Service requirements for the Dispatch Interval to zero and set the Final RoCoF Control Service Market Clearing Price to zero.

7.11E.5. All administered prices set under clauses 7.11E.3 and 7.11E.4 will be subject to a floor of \$0.

7.11E.6. To avoid doubt, and without limiting clause 1.55.9, for the purposes of the time periods specified in clauses 7.11E.3 and 7.11E.4, AEMO may, to the extent it considers necessary to set the final Market Clearing Prices specified in those clauses, use any data and information under the Pre-Amended Rules (as defined in clause 1.55.9) that it considers reasonable to use in the circumstances.

**97. Section 7.13 amended**

97.1 Clause 7.13.1 is amended by deleting the word 'publish' and replacing it with the words 'make available to Market Participants'.

97.2 Clause 7.13.1A is amended by deleting the word 'publish' and replacing it with the words 'make available to Market Participants'.

97.3 Clause 7.13.1A(c) is deleted and replaced with the following:

(c) the Forecast Unscheduled Operational Demand or, where applicable, the alternative forecast used for the Scenario;

97.4 Insert the following new clause 7.13.1A(cA):

(cA) the Forecast Operational Demand or, where applicable, the equivalent forecast determined for the Scenario;

97.5 Insert the following new clause 7.13.1A(cB):

(cB) the Forecast Operational Withdrawal or, where applicable, the equivalent forecast determined for the Scenario;

97.6 Clause 7.13.1A(d) is amended by inserting the word 'the' immediately before the word 'projected'.

97.7 Clause 7.13.1A(g) is amended by inserting the words 'as applicable' immediately after the word 'Quantities'.

97.8 Clause 7.13.1A(i) is deleted and replaced with the following:

(i) Near Binding Constraint Equations;

97.9 Clause 7.13.1B is amended by deleting the word 'publish' and replacing it with the words 'make available to Market Participants'.

97.10 Clause 7.13.1B(b) is amended by inserting the words 'as applicable' immediately after the word 'Quantities'.

97.11 Clause 7.13.1B(e) is deleted and replaced with the following:

- (e) Near Binding Constraint Equations;
- 97.12 Clause 7.13.1C is amended by deleting the word 'publish' and replacing it with the words 'make available to Market Participants'.
- 97.13 Clause 7.13.1CA(c) is deleted and replaced with the following:
- (c) make the revised prices referred to in clauses 7.13.1CA(a) and 7.13.1CA(b) available to Market Participants as soon as practicable.
- 97.14 Insert the following new clause 7.13.1CB:
- 7.13.1CB. Where a Market Clearing Price has been impacted by a suspension of the Real-Time Market under clause 7.11D.1, AEMO must, based on the final Market Clearing Prices for each Market Service for each Dispatch Interval during the suspension as determined by AEMO in accordance with section 7.11E:
- (a) determine revised Market Clearing Prices for each Market Service for each relevant Dispatch Interval;
- (b) determine the revised Reference Trading Price for each relevant Trading Interval; and
- (c) make the revised prices referred to in clauses 7.13.1CB(a) and 7.13.1CB(b) available to Market Participants as soon as practicable.
- 97.15 Clause 7.13.1D(c) is amended by deleting the words 'Registered Facilities' and replacing them with the words 'Scheduled Facilities and Semi-Scheduled Facilities'.
- 97.16 Clause 7.13.1E is amended by inserting the words 'on the WEM Website' immediately after the words 'AEMO must prepare and publish'.
- 97.17 Clause 7.13.1E(a)(i) is amended by deleting the words 'Registered Facility' and replacing them with the words 'Scheduled Facility, Semi-Scheduled Facility or Non-Scheduled Facility'.
- 97.18 Clause 7.13.1E(a)(iii) is amended by:
- (a) deleting the words 'replace the Unadjusted Semi-Scheduled Injection Forecast or to'; and
- (b) deleting the words 'Semi Scheduled' immediately after the word 'each'.
- 97.19 Clause 7.13.1E(a)(iv) is amended by deleting the words 'at the end'.
- 97.20 Clause 7.13.1E(a)(vi) is deleted and replaced with the following:
- vi. the EOI Quantity of each Scheduled Facility, Semi-Scheduled Facility and Non-Scheduled Facility;
- 97.21 Clause 7.13.1E(a)(vii) is deleted and replaced with the following:
- vii. the Operational Demand;

- 97.22 Insert the following new clause 7.13.1E(a)(viii):
- viii. the Operational Withdrawal; and
- 97.23 Insert the following new clause 7.13.1E(a)(ix):
- ix. any other SCADA data used as an input into the Central Dispatch Process;
- 97.24 Insert the following new clause 7.13.1E(aA):
- (aA) for each Trading Interval of the Trading Day, an estimate, derived from SCADA data, of the MWh Injection or Withdrawal of each Scheduled Facility, Semi-Scheduled Facility or Non-Scheduled Facility monitored by AEMO's SCADA system;
- 97.25 Clause 7.13.1E(b) is deleted and replaced with the following:
- (b) the maximum daily ambient temperature at the site of each Scheduled Facility or Semi-Scheduled Facility, recorded in accordance with the method specified in Appendix 1(b)(viii) or Appendix 1(c)(viii) as applicable;
- 97.26 Clause 7.13.1E(c) is amended by inserting the words ', as applicable' immediately after the word 'including'.
- 97.27 Clause 7.13.1E(c)(i) is amended by deleting the word 'IDs' and replacing it with the word 'ID'.
- 97.28 Insert the following new clause 7.13.1E(c)(iA):
- iA. the Market Service;
- 97.29 Clause 7.13.1E(c)(ii) is amended by deleting the words 'for Market Services'.
- 97.30 Clause 7.13.1E(c)(vii) is deleted and replaced with the following:
- vii. the Maximum Upwards Ramp Rate;
- 97.31 Clause 7.13.1E(c)(viii) is deleted and replaced with the following:
- viii. the Maximum Downwards Ramp Rate;
- 97.32 Clause 7.13.1E(c)(xiii) is amended by deleting the word 'and' after the semi-colon at the end of the clause.
- 97.33 Insert the following new clause 7.13.1E(c)(xv):
- xv. if the Registered Facility is Inflexible;
- 97.34 Insert the following new clause 7.13.1E(c)(xvi):
- xvi. the Unconstrained Injection Forecast; and
- 97.35 Insert the following new clause 7.13.1E(c)(xvii):
- xvii. the Unconstrained Withdrawal Forecast;
- 97.36 Clause 7.13.1E(d) is deleted and replaced with the following:

- (d) where applicable, for each Trading Interval of the Trading Day, the requested decrease in absolute value of Withdrawal for each Demand Side Programme calculated under clause 7.13.5;
- 97.37 Clause 7.13.1E(e) is amended by deleting the words 'for each Registered Facility' and replacing them with the words 'where applicable, for each Scheduled Facility or Semi-Scheduled Facility'.
- 97.38 Clause 7.13.1E(f) is amended by:
- (a) deleting the words 'for each Registered Facility' and replacing them with the words 'where applicable, for each Scheduled Facility or Semi-Scheduled Facility'; and
  - (b) deleting the word 'and' after the semi-colon at the end of the clause.
- 97.39 Clause 7.13.1E(g)(ii)(2) is amended by deleting the full stop at the end of the clause and replacing it with the word '; and'.
- 97.40 Insert the following new clause 7.13.1E(h):
- (h) for each Dispatch Interval of the Trading Day, for each Semi-Scheduled Facility and Non-Scheduled Facility, any alternative forecast quantities to the Unconstrained Injection Forecast and Unconstrained Withdrawal Forecast provided by the Market Participant in its Real-Time Market Submission that were determined and used by AEMO in the Central Dispatch Process under clause 7.2.4A.
- 97.41 Clause 7.13.F is deleted and replaced with the following:
- 7.13.1F. AEMO must prepare and publish on the WEM Website, for each Trading Interval and Dispatch Interval of a Trading Day, by noon on the first Business Day following the day on which the Trading Day ends:
- (a) an estimate of the total quantity of energy not served (in MWh) due to involuntary load shedding (manual and automatic); and
  - (b) an estimate of the change in Withdrawal (in MWh) of any Interruptible Loads in the provision of Contingency Reserve Raise.
- 97.42 Clause 7.13.1G is deleted and replaced with the following:
- 7.13.1G. AEMO must make available to Market Participants, for each Dispatch Interval of each DSP Pre-Dispatch Schedule or DSP Week-Ahead Schedule, within 30 minutes of determining that DSP Schedule, the following information:
- (a) for each Demand Side Programme:
    - i. DSP Unconstrained Withdrawal Quantity;
    - ii. DSP Constrained Withdrawal Quantity;
    - iii. estimated Relevant Demand;

- iv. estimated sum of the Minimum Consumption of each Associated Load of the Demand Side Programme;
  - v. estimated Reserve Capacity Obligation Quantity;
  - vi. DSP Forecast Capacity; and
  - vii. DSP Forecast Reduction;
- (b) the sum of the DSP Forecast Capacities of each Demand Side Programme; and
  - (c) the sum of the DSP Forecast Reductions of each Demand Side Programme.

97.43 Clause 7.13.1H is deleted and replaced with the following:

7.13.1H. Within five minutes of each time AEMO issues a Dispatch Instruction to a Demand Side Programme, AEMO must make available to Market Participants the details of that Dispatch Instruction.

97.44 Insert the following new clause 7.13.1I:

7.13.1I. AEMO must publish the following information on the WEM Website as soon as practicable after it has made the information available to Market Participants:

- (a) the information referred to in clauses 7.13.1, 7.13.1B, 7.13.1C, 7.13.1CA, 7.13.1CB, 7.13.1G and 7.13.1H; and
- (b) the information referred to in clause 7.13.1A for the Reference Scenario of the applicable Market Schedule.

97.45 Insert the following new clause 7.13.1J:

7.13.1J. If AEMO is prevented by a temporary technical issue from publishing data on the WEM Website under clause 7.13.1I, AEMO may delay the publication of the data on the WEM Website by up to one Business Day.

97.46 Insert the following new clause 7.13.1K:

7.13.1K. If AEMO is prevented from completing the relevant processes that enable the recording of the data described in clauses 7.13.1E or 7.13.1F, AEMO may delay the preparation and publication of the data on the WEM Website by up to two Business Days.

97.47 Insert the following new clause 7.13.1L:

7.13.1L. AEMO may, if it reasonably considers it is required in order to estimate, or support AEMO's estimate of, the quantity referred to in clause 7.13.1F(a), request information from Rule Participants in respect to any involuntary load shedding. A

Rule Participant must comply with a request under this clause 7.13.1L within the time specified in the request.

97.48 Clause 7.13.4 is deleted and replaced with the following:

7.13.4. AEMO must:

- (a) determine the Operational Demand Estimate and Operational Withdrawal Estimate from SCADA data for Registered Facilities at least once every minute; and
- (b) publish each Operational Demand Estimate and Operational Withdrawal Estimate on the WEM Website as soon as practicable after its determination under clause 7.13.4(a),

and these values are not required to be maintained on the WEM Website after their initial publication.

97.49 Clause 7.13.5 is deleted and replaced with the following:

7.13.5. AEMO must, for the purposes of clauses 7.13.1E(d) and 4.26.2D, calculate, for each Demand Side Programme for each Trading Interval, the quantity, in MW, by which the Facility was requested by the applicable Dispatch Instruction to curtail the absolute value of its Withdrawal during that Trading Interval, where the quantity:

- (a) must be measured as a requested decrease from the Facility's Relevant Demand (and so must not include any quantity above the Relevant Demand); and
- (b) must not take account of the Facility's actual performance in response to the Dispatch Instruction.

97.50 Clause 7.13.6 is amended by:

- (a) deleting the words 'AEMO issued a Dispatch Instruction that did not restrict'; and
- (b) inserting the words 'not been restricted by a Dispatch Instruction or Network limitation' immediately after the words 'the output of the Registered Facility associated with the Intermittent Generating System or the Non-Scheduled Facility'.

97.51 Clause 7.13.8(a) is deleted and replaced with the following:

- (a) the methods that AEMO will use to determine estimates under clause 7.13.6;

97.52 Clause 7.13.8(c) is amended by deleting the words 'clause 7.13.6 and clause 7.13.7' and replacing them with the words 'clauses 7.13.6 and 7.13.7'.

**98. Heading above section 7.13A amended**

- 98.1 The heading **'Determination and Publication of RoCoF Upper Limit'** immediately above section 7.13A is deleted and replaced with the following:

**Not In-Service Capacity**

**99. Section 7.13A amended**

- 99.1 Clause 7.13A.2 is amended by:

- (a) deleting the word 'published' and replacing it with the words 'made available to Market Participants' in each place where it occurs;
- (b) inserting the words 'Injection for' immediately after the words 'Price-Quantity Pair for'; and
- (c) deleting the word '7.4.40(g)(vi)' and replacing it with the word '7.4.40(g)(i)(3)'.

- 99.2 Clause 7.13A.3 is amended by:

- (a) deleting the word 'published' and replacing it with the words 'made available to Market Participants' in each place where it occurs;
- (b) inserting the words 'Injection for' immediately after the words 'Price-Quantity Pair for'; and
- (c) deleting the word '7.4.40(g)(vi)' and replacing it with the word '7.4.40(g)(i)(3)'.

**100. Section 7.14 amended**

- 100.1 Clause 7.14.1 is amended by deleting the words 'Registered Facility' and replacing them with the words 'Scheduled Facility or Semi-Scheduled Facility'.
- 100.2 Clause 7.14.1(b) is amended by deleting the words 'as provided under clause 7.13.1E(e) / section 9.4'.

**101. Section 8.6 amended**

- 101.1 Clause 8.6.2(b) is amended by inserting a full stop at the end of the clause.

**102. Section 9.1 amended**

- 102.1 Clause 9.1.3(g)(ii) is amended by inserting the words 'and Market Participant Coordinator Fees' immediately after the words 'Market Participant Regulator Fees'.

**103. Section 9.2 amended**

- 103.1 Clause 9.2.1 is deleted and replaced with the following:

- 9.2.1. AEMO must document the settlement process in a WEM Procedure, including, but not limited to:
- (a) the application of taxes and interest;
  - (b) the collection and distribution of Financial Penalties;

- (c) the processes to be followed in relation to Notices of Disagreement and Notices of Dispute; and
- (d) the processes to be followed in relation to Default Levies and Repaid Amount Levies.

**104. Section 9.4 amended**

104.1 Section 9.4 is deleted and replaced with the following:

**9.4. [Blank]**

**105. Section 9.5 amended**

105.1 Clause 9.5.7 is amended by deleting the formula for calculating 'ConsumptionContributingQuantity(p,t)' and replacing it with the following formula:

$$\text{ConsumptionContributingQuantity}(p,t) = \sum_{f \in p} \min(0, \text{MeteredSchedule}(f,t))$$

105.2 Clause 9.5.7(a) is deleted and replaced with the following:

- (a)  $f \in p$  denotes all Scheduled Facilities, Semi-Scheduled Facilities, Non-Scheduled Facilities and Non-Dispatchable Loads registered to or associated with Market Participant  $p$  (including Synergy's Notional Wholesale Meter where Synergy is Market Participant  $p$ ) in Trading Interval  $t$ ; and

**106. Section 9.6 amended**

106.1 Clause 9.6.3 is amended by deleting the formula for calculating 'Net\_SA(p,d)' and replacing it with the following formula:

$$\begin{aligned} \text{Net\_SA}(p,d) = & \text{STEM\_SA}(p,d) + \text{RC\_SA}(p,d) + \text{RTE\_SA}(p,d) + \\ & \text{ESS\_SA}(p,d) + \text{OC\_SA}(p,d) + \text{MPF\_SA}(p,d) \end{aligned}$$

**107. Section 9.8 amended**

107.1 Clause 9.8.2 is amended by deleting the formula for calculating 'RCSA(p,d)' and replacing it with the following formula:

$$\begin{aligned} \text{RC\_SA}(p,d) \\ = & \text{Capacity\_Provider\_Payment}(p,d) - \text{Capacity\_Purchaser\_Payment}(p,d) \end{aligned}$$

**108. Section 9.10 amended**

108.1 Clause 9.10.7(a) is amended by inserting the word 'Registered' immediately after the words 'payable for'.

108.2 Clause 9.10.7(b) is amended by inserting the word 'Registered' immediately after the words 'denotes all'.



- 108.3 Clause 9.10.11(a) is amended by inserting the word 'Registered' immediately after the words 'payable for'.
- 108.4 Clause 9.10.11(b) is amended by inserting the word 'Registered' immediately after the words 'denotes all'.
- 108.5 Clause 9.10.15(a) is amended by deleting the word 'facility' and replacing it with the words 'Registered Facility'.
- 108.6 Clause 9.10.15(b) is amended by inserting the word 'Registered' immediately after the words 'denotes all'.
- 108.7 Clause 9.10.24(a) is amended by inserting the word 'Registered' immediately after the words 'payable for'.
- 108.8 Clause 9.10.24(b) is amended by inserting the word 'Registered' immediately after the words 'denotes all'.
- 108.9 Clause 9.10.26(a) is deleted and replaced with the following:
- (a) SRS\_Payable(c,t) is the applicable dollar amount payable to Market Participant p in Trading Interval t for System Restart Services under each relevant System Restart Service Contract to which Market Participant p is a counterparty; and

**109. Section 9.12 amended**

- 109.1 The heading for section 9.12 '**Settlement Calculations - Market Participant Market Fees and Market Participant Regulator Fees**' is deleted and replaced with the following:
- Settlement Calculations - Market Participant Market Fees, Market Participant Coordinator Fees and Market Participant Regulator Fees**
- 109.2 Clause 9.12.2 is amended by deleting the formula for calculating 'MPF\_SA(p,d)' and replacing it with the following formula:
- $$\text{MPF\_SA}(p,d) = - \text{MPMF\_SA}(p,d) - \text{MPRF\_SA}(p,d) - \text{MPCF\_SA}(p,d)$$
- 109.3 Clause 9.12.2(a) is amended by deleting the word 'and' after the semi-colon at the end of the clause.
- 109.4 Clause 9.12.2(b) is amended by deleting the full stop at the end of the clause and replacing it with the word '; and'.
- 109.5 Insert the following new clause 9.12.2(c):
- (c) MPCF\_SA(p,d) is the Market Participant Coordinator Fees settlement amount for Market Participant p for Trading Day d calculated in accordance with clause 9.12.4A.
- 109.6 Clause 9.12.3 is amended by deleting the formula for calculating 'MPMF\_SA(p,d)' and replacing it with the following formula:
- $$\text{MPMF\_SA}(p,d) = \text{MarketFeeRate}(d) \times \text{ParticipantContribution}(p,d)$$

109.7 Clause 9.12.4 is amended by deleting the formula for calculating 'MPRF\_SA(p,d)' and replacing it with the following formula:

$$\text{MPRF\_SA}(p,d) = \text{RegulatorFeeRate}(d) \times \text{ParticipantContribution}(p,d)$$

109.8 Clause 9.12.4(a) is amended by deleting the words 'and the Rule Change Panel's'.

109.9 Clause 9.12.4A is amended by deleting the formula for calculating 'MPCF\_SA(p,d)' and replacing it with the following formula:

$$\text{MPCF\_SA}(p,d) = \text{CoordinatorFeeRate}(d) \times \text{ParticipantContribution}(p,d)$$

#### **110. Section 9.13 amended**

110.1 Clause 9.13.1 is amended by inserting the words ', to the Coordinator' immediately after the words 'payable to AEMO'.

110.2 Clause 9.13.2 is amended by deleting the formula for calculating 'SFMF\_SA(d)' and replacing it with the following formula:

$$\text{SFMF\_SA}(d) = \sum_{p \in P} \text{MPMF\_SA}(p,d)$$

110.3 Clause 9.13.3 is amended by deleting the formula for calculating 'SFRF\_SA(d)' and replacing it with the following formula:

$$\text{SFRF\_SA}(d) = \sum_{p \in P} \text{MPRF\_SA}(p,d)$$

110.4 Clause 9.13.4 is amended by deleting the formula for calculating 'SFCF\_SA(d)' and replacing it with the following formula:

$$\text{SFCF\_SA}(d) = \sum_{p \in P} \text{MPCF\_SA}(p,d)$$

#### **111. Section 9.15 amended**

111.1 Insert the following new clause 9.15.8:

9.15.8. If, for an Adjustment Process, the Service Fee Settlement Amount payable to AEMO under clause 9.13.2 based on the adjusted Market Participant Market Fees settlement amount is less than the Service Fee Settlement Amount payable to AEMO under clause 9.13.2 for the last Settlement Statement for that period, AEMO must make available the shortfall amount from the fund established under clause 9.18.9 for the purpose of meeting AEMO's obligations under clause 9.18.8.

111.2 Insert the following new clause 9.15.9:

9.15.9. AEMO and the Economic Regulation Authority must agree and implement an arrangement to apply for any Adjustment Process where the Service Fee Settlement Amount payable to the Economic Regulation Authority under clause

9.13.3 based on the adjusted Market Participant Regulator Fees settlement amount is less than the Service Fee Settlement Amount payable to the Economic Regulation Authority under clause 9.13.3 for the last Settlement Statement for that period. The arrangement must require:

- (a) the Economic Regulation Authority to return the shortfall amount to AEMO by 10:00 AM on the relevant Settlement Date; and
- (b) AEMO, if the Economic Regulation Authority fails to provide the shortfall amount to AEMO by 10:00 AM on the relevant Settlement Date, to make available the shortfall amount from the fund established under clause 9.18.9 for the purpose of meeting AEMO's obligations under clause 9.18.8.

111.3 Insert the following new clause 9.15.10:

9.15.10. AEMO and the Coordinator must agree and implement an arrangement to apply for any Adjustment Process where the Service Fee Settlement Amount payable to the Coordinator under clause 9.13.4 based on the adjusted Market Participant Coordinator Fees settlement amount is less than the Service Fee Settlement Amount payable to the Coordinator under clause 9.13.4 for the last Settlement Statement for that period. The arrangement must require:

- (a) the Coordinator to return the shortfall amount to AEMO by 10:00 AM on the relevant Settlement Date; and
- (b) AEMO, if the Coordinator fails to provide the shortfall amount to AEMO by 10:00 AM on the relevant Settlement Date, to make available the shortfall amount from the fund established under clause 9.18.9 for the purpose of meeting AEMO's obligations under clause 9.18.8.

## **112. Section 9.18 amended**

112.1 Insert the following new clause 9.18.13:

9.18.13. AEMO must publish on the WEM Website summary information pertaining to the account maintained by AEMO for market settlement for each Trading Week ending in the preceding 24 calendar months (excluding any Trading Weeks ending on or before New WEM Commencement Day):

- (a) the total income received for transactions related to:
  - i. the STEM in accordance with section 9.7;
  - ii. the Reserve Capacity Mechanism in accordance with section 9.8;
  - iii. Real-Time Energy in accordance with section 9.9;
  - iv. Essential System Services in accordance with section 9.10;
  - v. Outage Compensation in accordance with section 9.11;

- vi. Market Participant fees in accordance with section 9.12;
  - vii. Service fees in accordance with section 9.13; and
  - viii. a single value for all other income;
- (b) the total outgoings paid for transactions for:
- i. the STEM in accordance with section 9.7;
  - ii. the Reserve Capacity Mechanism in accordance with section 9.8;
  - iii. Supplementary Capacity Contracts in accordance with section 9.8;
  - iv. Real-Time Energy in accordance with section 9.9;
  - v. Essential System Services in accordance with section 9.10;
  - vi. Outage Compensation in accordance with section 9.11;
  - vii. Market Participant fees in accordance with section 9.12;
  - viii. Service fees in accordance with section 9.13; and
  - ix. a single value for all other expenses.

**113. Section 9.20 amended**

113.1 Clause 9.20.2(b) is deleted and replaced with the following:

- (b) If AEMO is not able to recover all or part of the Repaid Amount by drawing upon Credit Support held by AEMO in relation to the Rule Participant, then AEMO must raise a Repaid Amount Levy from all Market Participants (other than from Market Participants with unrecovered Payment Defaults) to recover the remainder of the Repaid Amount. AEMO will determine the amount to be paid by each Market Participant, having regard to the absolute value of the MWh of generation or consumption, determined in accordance with the Metered Schedules, for each Market Participant for Trading Intervals during the most recent Trading Week for which Settlement Statements have been issued, as a proportion of the total of those values for all Market Participants (other than Market Participants with unrecovered Payment Defaults).

113.2 Insert the following new clause 9.20.2A:

- 9.20.2A. AEMO must notify each relevant Market Participant of the amount it must pay in respect of the Repaid Amount Levy as determined in accordance with clause 9.20.2(b) within six Business Days of AEMO being notified of the requirement to provide the Repaid Amount under clause 9.20.2.

113.3 Insert the following new clause 9.20.2B:

- 9.20.2B. A Market Participant must pay the full amount notified by AEMO under clause 9.20.2A to AEMO (in cleared funds) by 10:00 AM on the eighth Business Day after

the date of AEMO's notification under clause 9.20.2A, whether or not the Market Participant disputes the amount required to be paid.

113.4 Insert the following new clause 9.20.2C:

9.20.2C. By the end of the second month following the end of a Financial Year, AEMO must re-allocate any Repaid Amount Levies raised during that Financial Year as follows:

- (a) AEMO will determine the sum of the Repaid Amount Levies raised by AEMO during the Financial Year;
- (b) AEMO will determine the aggregate Repaid Amount Levy amount which should have been paid by each Market Participant, having regard to the absolute value of the MWh of generation or consumption, as determined in accordance with the Metered Schedules for each Market Participant (excluding Market Participants with unrecovered Payment Defaults) for Trading Intervals during the Financial Year as a proportion of the total of those values for all these Market Participants;
- (c) AEMO must compare the amount determined for the Market Participant under clause 9.20.2C(b) with the total of the amounts the Market Participant has paid to AEMO under clause 9.20.2B;
- (d) AEMO must determine an appropriate adjustment to put each Market Participant in the position it would have been in had it paid the amount determined under clause 9.20.2C(b) instead of the amounts actually paid under clause 9.20.2B; and
- (e) AEMO must include that adjustment in the Settlement Statement for the most recently completed Trading Week.

113.5 Clause 9.20.3 is amended by inserting the words ', including any payments from AEMO on behalf of the Economic Regulation Authority under clause 9.15.8 and the Coordinator under clause 9.15.9' immediately after the words 'cleared funds'.

113.6 Clause 9.20.4(a)(i) is amended by inserting the word 'and' after the semi-colon at the end of the clause.

113.7 Clause 9.20.4(a)(ii) is amended by deleting the word '; and' at the end of the clause and replacing it with a comma.

113.8 Delete clause 9.20.4(a)(iii).

113.9 Clause 9.20.10 is amended by deleting the words 'Rule Participant' and replacing them with the words 'Market Participant'.

113.10 Clause 9.20.11(b) is amended by deleting the words 'Rule Participant' and replacing them with the words 'Market Participant'.

## **114. Chapter 10 amended**

114.1 Sections 10.1 to 10.9 (inclusive) are deleted and replaced with the following:

### **10.1. Record Retention**

- 10.1.1. The Coordinator, the Economic Regulation Authority and Rule Participants must retain any information or documents that are required to be collected, produced or exchanged under these WEM Rules or the WEM Procedures for a period of seven years from the date it is created, or such longer period as may be required by law.
- 10.2.1. Subject to clause 10.2.1B, an Information Manager must, in accordance with the WEM Rules and WEM Procedures, determine the confidentiality status for each type of Market Information it is responsible for under clause 10.2.12.
- 10.2.1A. No confidentiality status will be given to information, documents or data disclosed to the Coordinator, the Economic Regulation Authority, AEMO or a Network Operator if that information, documents or data is not Market Information.
- 10.2.1B. An Information Manager is not required to determine the confidentiality status of a type of Market Information for which it is responsible if the Information Manager:
  - (a) has not been requested to disclose the type of Market Information to any requesting party under section 10.4;
  - (b) is not required to disclose the type of Market Information to any other party under these WEM Rules or a WEM Procedure; and
  - (c) treats the type of Market Information as Confidential Information for the purposes of clauses 10.2.9 and 10.4.2.
- 10.2.2. The classes of confidentiality status are:
  - (a) Public Information, in which case the Market Information may be made available to any person by any person; and
  - (b) Confidential Information, in which case the Market Information may only be disclosed in accordance with clauses 10.4.4 and 10.4.19, or as otherwise required under these WEM Rules and the WEM Procedures.
- 10.2.3. Subject to clause 10.2.5, an Information Manager must classify Market Information as Confidential Information if:
  - (a) the Information Manager is not required to classify the Market Information as Public Information under clause 10.2.4; and
  - (b) the Market Information:
    - i. is contained in a contract to which the Rule Participant is a counterparty, but only insofar as the Market Information is specified in the contract as being confidential under the contract;

- ii. could, in the reasonable opinion of the Information Manager, pose a material risk to Power System Security or Power System Reliability if disclosed;
- iii. reveals personal details about an individual, but excluding their name and business contact details (including company name and address details, position, telephone numbers, mobile numbers and email addresses) that forms part of Market Information that is not confidential;
- iv. could, in the reasonable opinion of the Information Manager (or Coordinator in the case of a dispute under section 10.5), cause commercial detriment to a Rule Participant or another person if disclosed; or
- v. is otherwise specified as Confidential Information under these WEM Rules.

10.2.4. Market Information must be classified as Public Information if it is:

- (a) specified as Public Information under these WEM Rules;
- (b) required to be published or otherwise made publicly available under these WEM Rules; or
- (c) available in the public domain, other than by reason of a breach of these WEM Rules or by any other unlawful means.

10.2.5. Clause 10.2.3 does not prevent the disclosure or publication of Market Information if it is aggregated, arranged or combined with other data or information such that it does not reveal any Confidential Information. Market Information that is aggregated, arranged or combined with other data or information such that it does not reveal any Confidential Information is deemed to be Market Information that is classified as Public Information.

10.2.6. Without limiting clause 10.2.4, an Information Manager must classify Market Information as Public Information if the Information Manager does not consider that the Market Information is required to be classified as Confidential Information under clause 10.2.3.

10.2.7. A Rule Participant may make a submission to an Information Manager about Market Information that the Rule Participant considers to be Confidential Information if:

- (a) the Rule Participant is an Information Stakeholder for the Market Information; and

- (b) the confidentiality status of the Market Information is not required to be Public Information under clause 10.2.4.

A submission must include the Rule Participant's reasoning for classifying the Market Information as Confidential Information against the criteria in clause 10.2.3.

10.2.7A. A Rule Participant is an Information Stakeholder for Market Information if:

- (a) the Market Information explicitly relates to the Rule Participant or its Facilities, activities or contractual arrangements;
- (b) where clause 10.2.7A(a) does not apply, the Rule Participant or its Facilities, activities or contractual arrangements would otherwise be able to be identified from the Market Information; or
- (c) the Market Information relates to information, data or documents that a third party provided to the Rule Participant and the Rule Participant is under a duty or obligation (however described) to that third party to keep the relevant information, data or documents confidential.

10.2.8. A submission from a Rule Participant made under clause 10.2.7 must be considered by the Information Manager (or the Coordinator in the case of a dispute under section 10.5) when classifying Market Information. However the Information Manager (or Coordinator in the case of a dispute under section 10.5) will not be bound by any submission made by a Rule Participant in making its determination.

10.2.9. Subject to clauses 10.4.4 and 10.4.19, and unless otherwise required or permitted by these WEM Rules, the Coordinator, the Economic Regulation Authority and Rule Participants must not disclose Confidential Information to any person.

10.2.10. The Coordinator may document in a WEM Procedure guidance for Information Managers to assist with determining the confidentiality status of Market Information in accordance with clause 10.2.3.

10.2.11. Only one party may be the Information Manager for a type of Market Information, and the Information Manager may only be the Coordinator, the Economic Regulation Authority, AEMO or a Network Operator.

10.2.12. Subject to clause 10.2.11, the Information Manager for a type of Market Information is:

- (a) in the first instance, the party who is required to publish the Market Information in accordance with these WEM Rules or the WEM Procedures;
- (b) if clause 10.2.12(a) does not apply, then the party who produces the Market Information in accordance with these WEM Rules or the WEM Procedures;



- (c) if neither of clauses 10.2.12(a) or 10.2.12(b) apply, then the party who receives the Market Information under these WEM Rules or the WEM Procedures; or
- (d) if none of clauses 10.2.12(a), 10.2.12(b) or 10.2.12(c) apply, or it is unclear who the Information Manager is under clauses 10.2.12(a), 10.2.12(b) and 10.2.12(c), then the Coordinator may determine the Information Manager.

### **10.3. Public website requirements**

- 10.3.1. The Coordinator, the Economic Regulation Authority, AEMO and each Network Operator must maintain a website for the purpose of publishing Market Information as required under these WEM Rules or the WEM Procedures.
- 10.3.2. Subject to clause 10.4.7, the Coordinator, the Economic Regulation Authority, AEMO or a Network Operator must not require a fee for Market Information required to be disclosed or published by the Coordinator, the Economic Regulation Authority, AEMO or the Network Operator in accordance with these WEM Rules or the WEM Procedures.
- 10.3.3. Subject to clause 10.3.4, Market Information required to be published must, where practical, be maintained on an Information Manager's website for as long as that Market Information is required to be retained in accordance with clause 10.1.1.
- 10.3.4. If the Information Manager determines that it is no longer practical or efficient to maintain Market Information on a website in accordance with clause 10.3.3, the Information Manager must retain the Market Information as required by clause 10.1.1 and make the Market Information available at no cost to any person on application.

### **10.4. Managing Market Information**

- 10.4.1. The Coordinator, the Economic Regulation Authority and each Rule Participant must:
  - (a) manage Market Information in accordance with this section 10.4;
  - (b) take all reasonable measures to protect any Confidential Information that is in its possession from unauthorised use or disclosure; and
  - (c) if it is made aware that the Confidential Information has come into its possession erroneously, take reasonable steps to destroy that Confidential Information.
- 10.4.2. The Coordinator, the Economic Regulation Authority, AEMO and each Network Operator may only use Confidential Information in its possession to the extent that it considers it is required to perform its functions under sections 2.1A, 2.2A, 2.2C or 2.2D, as applicable.

10.4.3. Clause 10.4.1(b) does not prevent the disclosure of information by the Coordinator, the Economic Regulation Authority or a Rule Participant ("**disclosing party**") to:

- (a) an employee or officer of the disclosing party, or a related body corporate of the disclosing party; or
- (b) a legal or other professional adviser, auditor or other consultant of the disclosing party, who requires the Market Information in relation to the performance of the disclosing party's functions or obligations under these WEM Rules, or for the purpose of advising the disclosing party in respect of these functions or obligations,

provided that the disclosing party ensures that these persons are under equivalent obligations of confidence to the disclosing party as those provided in these WEM Rules.

10.4.4. Despite any other clauses in this Chapter 10:

- (a) an Information Manager is not prevented from allowing a Rule Participant access to Market Information that, other than by reason of a breach of these WEM Rules or other unlawful means, should already be known to that Rule Participant;
- (b) a Rule Participant is not prevented from publishing or otherwise disclosing Market Information in its possession which relates solely to the Rule Participant or the Rule Participant's Facilities or activities;
- (c) a Rule Participant is not prevented from disclosing Confidential Information to a person where it is necessary to ensure the safety of personnel, equipment or the power system; and
- (d) the Coordinator, the Economic Regulation Authority or a Rule Participant is not prevented from disclosing Confidential Information to a third party as required under applicable law.

10.4.5. An Information Manager may, at its discretion, publish on its website a list outlining its proposed classification for each type of Market Information the Information Manager is responsible for. This classification shall not be binding on the Information Manager or the Coordinator in the case of a dispute under section 10.5.

### **Requesting access to Market Information**

10.4.6. Where Market Information is not already available in the public domain, any person may request access to that Market Information by submitting a written request to the Information Manager.

- 10.4.6A. A request submitted under clause 10.4.6 must specify the details of how the request meets any of the criteria specified in clause 10.4.19.
- 10.4.7. Where Market Information is not required to be published or otherwise disclosed in accordance with these WEM Rules or a WEM Procedure, an Information Manager may charge a person a fee for providing Market Information disclosed in accordance with this section 10.4, where that fee may not exceed the Information Manager's reasonable costs, not otherwise included in its budget, of:
- (a) collation and transmission of information or documents; and
  - (b) preparation of documents not otherwise required by these WEM Rules, or other applicable law or regulation.
- 10.4.8. An Information Manager may not charge the Coordinator, the Economic Regulation Authority, AEMO or a Network Operator for Market Information requested in accordance with these WEM Rules.
- 10.4.9. If the Coordinator, the Economic Regulation Authority, AEMO or a Network Operator:
- (a) receives a request for Market Information under clause 10.4.6; and
  - (b) is not the Information Manager for that Market Information,
- then it must:
- (c) refer the requesting party to the appropriate Information Manager or the Coordinator; and
  - (d) take no further action on the request under this section 10.4.

### **Managing the disclosure of Public Information**

- 10.4.10. If the Information Manager considers that the Market Information requested under clause 10.4.6 is Public Information, it must, subject to clauses 10.4.11 and 10.4.16(c) and section 10.5, if it continues to possess the Market Information, disclose the relevant Market Information to the requesting party within 20 Business Days of receiving the request.
- 10.4.11. If a submission was made by an Information Stakeholder under clause 10.2.7 that Market Information requested under clause 10.4.6 is Confidential Information, and the Information Manager has deemed the Market Information to be Public Information and intends to provide it to the requesting party under clause 10.4.10:
- (a) the Information Manager must, within 10 Business Days of receiving the request under clause 10.4.6, notify the Information Stakeholder in writing:
    - i. that it intends to disclose the Market Information to the requesting party, specifying the time and nature of the intended disclosure;

- ii. its reasons for the Market Information not being Confidential Information; and
  - iii. that the Information Stakeholder may lodge a dispute with the Coordinator within five Business Days if it disagrees with the Information Manager's assessment;
- (b) if, had the Information Manager determined that the requested Market Information was Confidential Information (which it has not):
  - i. the Information Manager would be required to disclose the Market Information to the requesting party under clause 10.4.19; and
  - ii. no Information Stakeholder would be permitted to dispute the disclosure of the Market Information to the requesting party under clause 10.4.19A,

the Information Manager must:

- iii. disclose the Market Information to the requesting party within the timeframe specified in clause 10.4.10; and
    - iv. if the Market Information is disclosed to the requesting party:
      - 1. before the deadline for lodging a dispute under clause 10.4.14 in respect of the request; or
      - 2. before the Coordinator has made a determination on any dispute that was lodged under clause 10.4.14 in respect of the request,
- notify the requesting party when the Market Information is disclosed that, because the confidentiality status of the Market Information is, or could be, subject to a dispute, the requesting party must treat the Market Information as Confidential Information until the Information Manager or the Coordinator has notified the requesting party of the final confidentiality status for the relevant Market Information; and
- (c) if clause 10.4.11(b) does not apply, the Information Manager must not disclose the Market Information to the requesting party during the timeframe referred to in clause 10.4.11(a)(iii).

10.4.12. [Blank]

10.4.13. [Blank]

10.4.14. If the Information Stakeholder disagrees with the assessment specified by the Information Manager in a notification under clause 10.4.11(a), the Information

Stakeholder may provide the Coordinator and the Information Manager with a notice of dispute within the timeframe specified in clause 10.4.11(a)(iii).

- 10.4.15. A notice of dispute provided under clause 10.4.14 must be in writing and must contain:
- (a) the date on which the notice of dispute was issued;
  - (b) the identity of the Information Stakeholder issuing the notice of dispute;
  - (c) the identities of any other relevant parties to the dispute;
  - (d) the details of the Market Information in dispute, including the Information Stakeholder's reasoning for disputing the Information Manager's assessment; and
  - (e) the contact person for the Information Stakeholder issuing the dispute, and their contact details.
- 10.4.16. If:
- (a) an Information Manager issues a notification to one or more Information Stakeholders under clause 10.4.11(a) in respect of a specific request for Market Information under clause 10.4.6; and
  - (b) no Information Stakeholder issues a notice of dispute under clause 10.4.14 in respect of the request within the timeframe specified under clause 10.4.11(a)(iii) for the relevant notification,
- the Information Manager must:
- (c) if it has already disclosed the Market Information to the requesting party under clause 10.4.11(b)(iii), notify the requesting party that the relevant Market Information is Public Information; or
  - (d) otherwise, disclose the Market Information to the requesting party within the timeframe specified in clause 10.4.10.
- 10.4.17. If an Information Stakeholder issues a notice of dispute under clause 10.4.14, then:
- (a) the Coordinator and the Information Manager must acknowledge the notice of dispute within one Business Day of receiving the notice of dispute;
  - (b) the Coordinator must determine the dispute in accordance with section 10.5; and
  - (c) except where clause 10.4.11(b) applies, the Information Manager must not disclose the Market Information to the requesting party while the dispute is being determined.

## **Managing disclosure of Confidential Information**

- 10.4.18. If the Information Manager considers that the Market Information requested under clause 10.4.6 is Confidential Information, it must:
- (a) if required under clause 10.4.19, disclose the Market Information to the requesting party within 20 Business Days of receiving the request; or
  - (b) advise the requesting party that the Market Information is Confidential Information and is unable to be disclosed within 10 Business Days of receiving the request.
- 10.4.19. Subject to clauses 10.4.20, 10.4.21 and 10.4.25(c) and section 10.5, the Information Manager must disclose Confidential Information that has been requested under clause 10.4.6 to the requesting party if:
- (a) the Information Manager has the written consent of each relevant Information Stakeholder;
  - (b) the Confidential Information is required to be disclosed by or under any law or a stock exchange having jurisdiction over the Rule Participant;
  - (c) disclosure of the Confidential Information is required by an order of a court, tribunal, arbiter, the Electricity Review Board or another judicial body having jurisdiction to compel the disclosure of Confidential Information;
  - (d) the disclosure of the Confidential Information to the requesting party is necessary for the safety of personnel, equipment or the power system;
  - (e) the requesting party is the Economic Regulation Authority or the Coordinator;
  - (f) the requesting party is AEMO or the relevant Network Operator and the Confidential Information is required by that party to carry out its functions under these WEM Rules or a WEM Procedure; or
  - (g) in the reasonable opinion of the Information Manager (or Coordinator in a dispute under Section 10.5), the benefit to electricity consumers of the disclosure of the Confidential Information to the requesting party outweighs any commercial detriment that may be caused by the disclosure.
- 10.4.19A. An Information Stakeholder for Market Information may dispute the disclosure of that Market Information to a requesting party under clause 10.4.19 if:
- (a) the Market Information is being disclosed because the Information Manager considers the request meets the criteria in clause 10.4.19(g); and
  - (b) the Information Manager is not the Coordinator.
- 10.4.20. If an Information Manager intends to disclose Market Information requested under clause 10.4.6 in accordance with clause 10.4.19, and an Information Stakeholder

is permitted to dispute the disclosure of the Market Information under clause 10.4.19A, the Information Manager must:

- (a) within 10 Business Days of receiving the request under clause 10.4.6, notify each applicable Information Stakeholder in writing:
  - i. that it intends to disclose the Market Information to the requesting party, specifying the time and nature of the intended disclosure;
  - ii. its reasons for the Market Information being disclosed to the requesting party under clause 10.4.19; and
  - iii. that the Information Stakeholder may lodge a dispute with the Coordinator within five Business Days if it disagrees with the Information Manager's assessment; and
- (b) not disclose the Market Information to the requesting party during the timeframe referred to in clause 10.4.20(a)(iii).

10.4.21. If an Information Stakeholder wishes to lodge a dispute in relation to a notification received under clause 10.4.20(a), it must provide the Coordinator and the Information Manager with a notice of dispute within the timeframe specified in clause 10.4.20(a)(iii).

10.4.22. If the Information Manager advises a party requesting Market Information that the Market Information is Confidential Information that cannot be disclosed under clause 10.4.19, the requesting party may provide the Coordinator and the Information Manager with a notice of dispute regarding the assessment by the Information Manager of either:

- (a) confidentiality under clause 10.2.3; or
- (b) eligibility for disclosure under clause 10.4.19.

10.4.23. A notice of dispute lodged under clauses 10.4.21 or 10.4.22 must be in writing and contain:

- (a) the date on which the notice of dispute was issued;
- (b) the identity of the Rule Participant or person issuing the notice of dispute;
- (c) the identities of any other relevant parties to the dispute;
- (d) the details of the Market Information in dispute, including the Information Stakeholder's or requesting party's, as applicable, reasoning for disputing the Information Manager's assessment; and
- (e) the contact person for the Rule Participant or person issuing the dispute, and their contact details.

10.4.24. If:

- (a) an Information Manager issues a notification to one or more Information Stakeholders under clause 10.4.20(a) in respect of a specific request for Market Information under clause 10.4.6; and
- (b) no Information Stakeholder issues a notice of dispute under clause 10.4.21 in respect of the request within the timeframe specified under clause 10.4.20(a)(iii) for the relevant notification,

the Information Manager must disclose the Market Information to the requesting party within the timeframe specified in clause 10.4.18(a).

10.4.25. If a dispute is lodged in accordance with clauses 10.4.21 or 10.4.22, then:

- (a) the Coordinator and the Information Manager must acknowledge the notice of dispute within one Business Day of receiving the notice of dispute;
- (b) the Coordinator must determine the dispute in accordance with section 10.5; and
- (c) the Information Manager must not disclose the Market Information under dispute to the requesting party while the dispute is being determined.

10.4.26. When an Information Manager discloses Market Information to a requesting party in response to a request under clause 10.4.6, the Information Manager must advise the requesting party whether the Market Information is classified as Public Information or Confidential Information.

## **10.5. Resolving disputes regarding the disclosure of Market Information**

10.5.1. If the Coordinator receives notice of a dispute in accordance with clauses 10.4.14, 10.4.21 or 10.4.22, the Coordinator must resolve the dispute in accordance with this section 10.5.

10.5.2. The Coordinator must document in a WEM Procedure the process for resolving a dispute under this section 10.5.

10.5.3. If the Coordinator considers that a notice of dispute received under clauses 10.4.14, 10.4.21 or 10.4.22 lacks sufficient substance or is trivial, or that the dispute is frivolous or vexatious, the Coordinator may dismiss the dispute and the original decision of the Information Manager will be final.

10.5.4. The Coordinator must conduct reasonable consultation with the Information Manager, each relevant Information Stakeholder and the requesting party as part of the dispute resolution process.

10.5.5. The Coordinator must make her or his determination on a dispute against the requirements in clauses 10.2.3, 10.2.4, 10.2.5, 10.2.6, 10.2.8 and 10.4.19.



- 10.5.6. Within 20 Business Days of being notified of a dispute, the Coordinator must inform the parties to the dispute in writing of either:
- (a) the Coordinator's determination; or
  - (b) if more time is required for a determination, the expected date for that determination.
- 10.5.7. If the timeframe for a determination is extended under clause 10.5.6(b), the Coordinator must deliver her or his determination within that extended timeframe.
- 10.5.8. The Coordinator's determination:
- (a) must, where applicable, classify the relevant Market Information as Public Information or Confidential Information; and
  - (b) may, if the Market Information is Confidential Information, direct the Information Manager to:
    - i. disclose all or part of the Market Information to the requesting party;
    - ii. disclose all or part of the Market Information to the requesting party with conditions attached; or
    - iii. not release or disclose the Market Information to the requesting party.
- 10.5.9. Until the Coordinator has made a determination under clause 10.5.8, the Market Information in dispute will be deemed to be Confidential Information and may not be disclosed by the Information Manager to any party, except as otherwise required under these WEM Rules.
- 10.5.10. Where the Coordinator makes a determination under clause 10.5.8, the Coordinator must:
- (a) advise the parties to the dispute of the outcome; and
  - (b) publish her or his determination on the Coordinator's Website, redacting any commercially sensitive or other Confidential Information.
- 10.5.11. A determination published under clause 10.5.10 must include the nature of the Market Information that has been determined to be Public Information or Confidential Information, and any submissions or justification put forward by the parties to the dispute or any other parties consulted by the Coordinator.
- 10.5.12. If the Coordinator makes a determination in accordance with clauses 10.5.8(a), 10.5.8(b)(i) or 10.5.8(b)(ii), the Information Manager must disclose the specified Market Information to the requesting party in accordance with the determination within 10 Business Days.

- 10.5.13. If the Coordinator makes a determination in accordance with clause 10.5.8(b)(iii) the Information Manager must not disclose the Market Information to the requesting party.
- 10.5.14. If a dispute is lodged under clauses 10.4.14, 10.4.21 or 10.4.22, but the Coordinator has already made a prior determination on the same type of Market Information on the same or similar grounds as those specified in the dispute, the Coordinator is not required to determine the dispute in accordance with this section 10.5 and may direct the parties to the dispute to her or his relevant determination.

## **Market Information to be Published by Information Managers**

### **10.6. Public Information**

- 10.6.1. The confidentiality status for the following Market Information under section 10.2 is Public Information and the relevant Information Manager must make each item of information available from or via its website after that item of information becomes available to it:
- (a) the precise basis for determining the Bank Bill Rate;
  - (b) details of resolved disputes, including all Public Information associated with the dispute, but not parts of the resolution or information associated with the resolution which contain Confidential Information;
  - (c) public consultation proceedings;
  - (d) public reports pertaining to the Wholesale Electricity Market issued by the relevant Information Manager;
  - (e) reports pertaining to the Wholesale Electricity Market produced by the Electricity Review Board and the Minister;
  - (f) event reports explaining what happened during unusual market or dispatch events but not any parts of such reports which contain Confidential Information;
  - (g) summary information on disputes in progress that may impact other Rule Participants;
  - (h) for each Trading Week which has been settled under Chapter 9, the information provided by AEMO to each Network Operator under clause 5.9.2; and
  - (i) for each Trading Week which has been settled under Chapter 9, for each AEMO-procured NCESS Contract in effect during that Trading Week:

- i. details of each enablement or dispatch event under the NCESS Contract, including the relevant times and enablement or dispatch quantities; and
  - ii. for each Dispatch Interval in the Trading Week, the payment made by AEMO for services provided under the NCESS Contract as provided to the settlement system under clause 5.9.1(c).
- 10.6.2. Market Information required to be published on an Information Manager's website under clause 10.6.1 is in addition to any other Market Information that is required to be published under other provisions of these WEM Rules and the WEM Procedures.

## 115. Chapter 11 (Glossary) amended

- 115.1 Insert each of the following new definitions in Chapter 11 (Glossary) in the appropriate alphabetical order:

**Bilateral Submission Results Window:** For a point in time in the 24-hour period starting at 8:00 AM on a Scheduling Day, the period of eight consecutive Trading Days starting with the Trading Day for the Scheduling Day.

**Confidential Information:** Market Information classified as confidential by an Information Manager under clause 10.2.3 or the Coordinator under section 10.5.

**Consumption Contributing Quantity:** For a Market Participant for a Trading Interval, has the meaning given in clause 9.5.7.

**Dispatch Forecast:** The total MW level of Injection or Withdrawal expected to be reached by a Semi-Scheduled Facility or Non-Scheduled Facility at the end of the Dispatch Interval which is:

- (a) for a Non-Scheduled Facility, the Market Participant's Unconstrained Injection Forecast or Unconstrained Withdrawal Forecast, as applicable, for the Non-Scheduled Facility for the Dispatch Interval, as may be replaced by AEMO under clause 7.2.4A; and
- (b) for a Semi-Scheduled Facility:
  - i. if AEMO has specified a Dispatch Target for the Semi-Scheduled Facility for the Dispatch Interval, that Dispatch Target;
  - ii. otherwise, if the Semi-Scheduled Facility is expected to be Injecting at the end of the Dispatch Interval, the lesser of:
    - 1. the Dispatch Cap for the Semi-Scheduled Facility for the Dispatch Interval; and

2. the Market Participant's Unconstrained Injection Forecast for the Semi-Scheduled Facility for the Dispatch Interval, as may be replaced by AEMO under clause 7.2.4A; and
- iii. otherwise, the greater of:
  1. the Dispatch Cap for the Semi-Scheduled Facility for the Dispatch Interval; and
  2. the Market Participant's Unconstrained Withdrawal Forecast for the Semi-Scheduled Facility for the Dispatch Interval, as may be replaced by AEMO under clause 7.2.4A.

**Dispatch Target:** For a Scheduled Facility or Semi-Scheduled Facility, the level of Injection or Withdrawal to be reached at the end of a Dispatch Interval.

**DSP Constrained Withdrawal Quantity:** A Market Participant's estimate of the absolute value of the average MW Withdrawal of its Demand Side Programme in a Dispatch Interval, taking into account any information about the potential or actual dispatch of the Demand Side Programme that is provided by AEMO in Market Advisories under clause 7.11.6(cA), Dispatch Instructions under clause 7.6.15 or notifications under clause 4.25.9(h).

**DSP Forecast Capacity:** An estimate of the potential reduction in the absolute value of Withdrawal of a Demand Side Programme in a Dispatch Interval if the Demand Side Programme was fully dispatched by AEMO in accordance with the Reserve Capacity Obligations for the Demand Side Programme, determined by AEMO in accordance with clause 7.8A.3.

**DSP Forecast Reduction:** An estimate of the expected reduction in the absolute value of Withdrawal of a Demand Side Programme in a Dispatch Interval based on DSP Withdrawal Profile Submissions provided by the Market Participant, determined by AEMO in accordance with clause 7.8A.4.

**DSP Pre-Dispatch Schedule:** Has the meaning given in clause 7.8A.1.

**DSP Schedule:** A DSP Week-Ahead Schedule or a DSP Pre-Dispatch Schedule.

**DSP Unconstrained Withdrawal Quantity:** A Market Participant's estimate of the absolute value of the average MW Withdrawal of its Demand Side Programme in a Dispatch Interval, assuming that the Demand Side Programme does not receive a notification under clause 4.25.9(h) or Dispatch Instruction under clause 7.6.15 that affects its Withdrawal in the Dispatch Interval.

**DSP Week-Ahead Schedule:** Has the meaning given in clause 7.8A.1.

**DSP Withdrawal Profile Submission:** A submission made by a Market Participant to AEMO which provides a DSP Unconstrained Withdrawal Quantity and DSP Constrained Withdrawal Quantity for a Demand Side Programme for a Dispatch Interval.

**Forecast Operational Demand:** For a Dispatch Interval or Pre-Dispatch Interval, AEMO's estimate of the total Injection required, in MW, from Scheduled Facilities, Semi-Scheduled Facilities and Non-Scheduled Facilities at the end of the interval, as determined by the Dispatch Algorithm for a Reference Scenario of a Market Schedule.

**Forecast Operational Withdrawal:** For a Dispatch Interval or Pre-Dispatch Interval, AEMO's estimate of the total Withdrawal, in MW, from Scheduled Facilities, Semi-Scheduled Facilities and Non-Scheduled Facilities (excluding Registered Facilities that are not required to specify Price-Quantity Pairs for Withdrawals under clause 7.4.46A) at the end of the interval, as determined by the Dispatch Algorithm for a Reference Scenario of a Market Schedule.

**Forecast Unscheduled Operational Demand:** For a Dispatch Interval or Pre-Dispatch Interval, AEMO's estimate, determined in accordance with section 7.3, of the total Injection required, in MW, from Scheduled Facilities, Semi-Scheduled Facilities and Non-Scheduled Facilities at the end of the interval, to serve demand that does not relate to:

- (a) Withdrawals by Non-Scheduled Facilities; or
- (b) Withdrawals scheduled by the Dispatch Algorithm for Scheduled Facilities or Semi-Scheduled Facilities.

**In-Service Capacity:** For a Registered Facility in a Dispatch Interval, Injection or Withdrawal capacity that the Market Participant expects to be ready for dispatch in the Dispatch Interval, allowing for expected operating conditions, commitment and control intentions and the effect of any Outages that have not been rejected for the Registered Facility. To avoid doubt, In-Service Capacity is not limited by the expected availability of intermittent fuels for an Intermittent Generating System such as wind.

**Information Manager:** The party responsible for managing Market Information, in accordance with clauses 10.2.11 and 10.2.12.

**Information Stakeholder:** Has the meaning given in clause 10.2.7A.

**Intermediary:** Has the meaning given in clause 2.28.16A.

**Market Information:** Any information or document that is required to be produced, provided or exchanged under these WEM Rules or a WEM Procedure.

**Market Participant Coordinator Fees:** The fees, the rates of which are determined by AEMO in accordance with section 2.24, and calculated as payable by Market Participants in accordance with clause 9.12.4A to AEMO for the services provided by the Coordinator in undertaking her or his functions under these WEM Rules and the WEM Regulations.

**Maximum Facility Supply Capability:** The MWh contribution of a Scheduled Facility, Semi-Scheduled Facility or Non-Scheduled Facility over a Dispatch Interval or Trading Interval to the Maximum Supply Capability of a Market Participant, determined in accordance with clauses 6.3A.3(c) (for a Dispatch Interval) and 6.3A.3(d) (for a Trading Interval).

**Near Binding Constraint Equation:** For a Constraint Equation used in the Central Dispatch Process, where the absolute value of difference between the value of the left hand side and the value of the right hand side of the Constraint Equation is less than 20 times the absolute value of the largest coefficient on the left hand side of the Constraint Equation.

**Network Quality and Reliability of Supply Code:** The *Electricity Industry (Network Quality and Reliability of Supply) Code 2005*.

**Operational Demand:** For a Dispatch Interval, the total Injection, in MW, from all Scheduled Facilities, Semi-Scheduled Facilities and Non-Scheduled Facilities that are Injecting at the end of the Dispatch Interval.

**Operational Demand Estimate:** For a point in time, AEMO's estimate of the total Injection, in MW, from all Scheduled Facilities, Semi-Scheduled Facilities and Non-Scheduled Facilities that are Injecting at that time.

**Operational Withdrawal:** For a Dispatch Interval, the total Withdrawal, in MW, from all Scheduled Facilities, Semi-Scheduled Facilities and Non-Scheduled Facilities (excluding Registered Facilities that are not required to specify Price-Quantity Pairs for Withdrawals under clause 7.4.46A) that are Withdrawing at the end of the Dispatch Interval.

**Operational Withdrawal Estimate:** For a point in time, AEMO's estimate of the total Withdrawal, in MW, from all Scheduled Facilities, Semi-Scheduled Facilities and Non-Scheduled Facilities (excluding Registered Facilities that are not required to specify Price-Quantity Pairs for Withdrawals under clause 7.4.46A) that are Withdrawing at that time.

**Outage Completion Interval:** The Dispatch Interval specified in an Outage Plan or revision in which the Outage is proposed to be completed.

**Outage Period:** In respect of an Outage Plan, the period of time between the start of the Outage Commencement Interval and the end of the Outage Completion Interval.

**Outage Quantity:** The quantity, in MW, of the derating of a Separately Certified Component in a Dispatch Interval as a result of a Planned Outage or Forced Outage for energy, determined in accordance with clause 3.21.6.

**Outage Return To Service Commencement Interval:** The first Dispatch Interval in an Outage Return To Service Period.

**Outage Return To Service Completion Interval:** The last Dispatch Interval in an Outage Return To Service Period.

**Outage Return To Service Period:** A period of time within the Outage Period of an Outage Plan, during which the relevant Outage Capability is intended to be returned to service, which starts at the start of its Outage Return To Service Commencement Interval and ends at the end of its Outage Return To Service Completion Interval.

**Public Information:** Market Information that is not confidential and may be made available to any person.

**Refund Exempt Planned Outage Quantity:** A Capacity Adjusted Planned Outage Quantity for a Separately Certified Component of a Scheduled Facility or Semi-Scheduled Facility in a Trading Interval for which a Facility Reserve Capacity Deficit Refund is not payable, as determined by AEMO under clauses 4.26.1C or 4.26.1CA.

**Refund Payable Planned Outage Quantity:** A Capacity Adjusted Planned Outage Quantity for a Separately Certified Component of a Scheduled Facility or Semi-Scheduled Facility in a Trading Interval for which a Facility Reserve Capacity Deficit Refund is payable, as determined by AEMO under clauses 4.26.1C or 4.26.1CA.

**Remaining Available Capacity:** For each Dispatch Interval included in an Outage, the remaining capability of a Facility or Facility Technology Type of a Facility, as relevant, to provide an Outage Capability, in units as described in the WEM Procedure referred to in clause 3.18.4.

**Repaid Amount Levy:** The amount, in respect of a given Market Participant and in the circumstance of a particular Repaid Amount, determined by AEMO in accordance with clause 9.20.2A.

**Self-Scheduling Outage Facility List:** The list maintained by AEMO under clause 3.18A.6.

**Standing DSP Withdrawal Profile Submission:** A default DSP Withdrawal Profile Submission for a Demand Side Programme for Dispatch Intervals starting at specified times on Trading Days of a specified type.

**Standing Real-Time Market Submission:** A default Real-Time Market Submission for a Registered Facility and Market Service for Dispatch Intervals starting at specified times on Trading Days of a specified type.

**STEM Submission Information Window:** For a Scheduling Day, the period of eight consecutive Trading Days starting with the Trading Day for the Scheduling Day.

**STEM Submission Results Window:** For a point in time in the 24-hour period starting at 8:30 AM on a Scheduling Day, the period of eight consecutive Trading Days starting with the Trading Day for the Scheduling Day.

**Unconstrained Injection Forecast:** The expected MW level of Injection at the end of a Dispatch Interval for a Semi-Scheduled Facility or Non-Scheduled Facility, assuming that the Facility will not be subject to a Dispatch Instruction or direction from AEMO that limits its Injection, and allowing for expected conditions, commitment and control intentions and the effect of any Outages that have not been rejected for the Facility.

**Unconstrained Withdrawal Forecast:** The expected MW level of Withdrawal at the end of a Dispatch Interval for a Semi-Scheduled Facility or Non-Scheduled Facility, assuming that the Facility will not be subject to a Dispatch Instruction or direction from AEMO that limits its Withdrawal, and allowing for expected conditions, commitment and control intentions and the effect of any Outages that have not been rejected for the Facility.

**Withdrawal:** The quantity of power or energy received from a Network, as measured:

- (a) for a Scheduled Facility, Semi-Scheduled Facility or Non-Scheduled Facility with a single defined network connection point, at the network connection point;
- (b) for a Scheduled Facility, Semi-Scheduled Facility or Non-Scheduled Facility with multiple network connection points with the same Electrical Location, at the Electrical Location;
- (c) for a Scheduled Facility, Semi-Scheduled Facility or Non-Scheduled Facility with network connection points at more than one Electrical Location, at the Reference Node;
- (d) for a Non-Dispatchable Load, at the network connection point; and
- (e) for a Demand Side Programme, as the sum of the Withdrawal quantities of each Associated Load of the Demand Side Programme,

which is measured in instantaneous MW unless specified as MWh over a time period, and is represented as a negative number or zero.

- 115.2 The definition for 'Available Capacity' in Chapter 11 (Glossary) is deleted and replaced with the following:

**Available Capacity:** For a Registered Facility in a Dispatch Interval, Injection or Withdrawal capacity that the Market Participant is not expecting to make ready for dispatch in the Dispatch Interval, but expects to be able to make ready for dispatch in the Dispatch Interval if given notice before the relevant Start Decision Cutoff, allowing for expected operating conditions and the effect of any Outages that have not been rejected for the Registered Facility. To avoid doubt, Available Capacity is not limited by the expected availability of intermittent fuels for an Intermittent Generating System such as wind.

- 115.3 The definition for 'Automatic Generation Control System (AGC)' in Chapter 11 (Glossary) is amended by:

- (a) inserting the words 'or Dispatch Caps' immediately after the words 'Dispatch Targets'; and
- (b) inserting the words 'and processed by AEMO' immediately after the words 'are entered'.

- 115.4 The definition for 'Base ESS Quantity' in Chapter 11 (Glossary) is amended by:

- (a) deleting the words 'Availability Payment' and replacing them with the words 'SESSM Availability Payment'; and
- (b) deleting the words 'Availability Quantity' and replacing them with the words 'SESSM Availability Quantity'.

- 115.5 The definition for 'Capacity Adjusted Forced Outage Quantity' in Chapter 11 (Glossary) is amended by:



- (a) in paragraph (a), deleting the word '3.21.8' and replacing it with the word '3.21.7';
- (b) in paragraph (b), deleting the word '3.21.8A' and replacing it with the word '3.21.7A';
- (c) in paragraph (c), deleting the word '3.21.8B.' and replacing it with the word '3.21.7B; and'; and
- (d) inserting the following new paragraph (d):
  - (d) for a Facility in a Dispatch Interval, the formula in clause 3.21.7C.

115.6 The definition for 'Capacity Adjusted Planned Outage Quantity' in Chapter 11 (Glossary) is amended by:

- (a) in paragraph (a), deleting the word '3.21.78' and replacing it with the word '3.21.8';
- (b) in paragraph (c), deleting the full stop at the end of the paragraph and replacing it with the word '; and'; and
- (c) inserting the following new paragraph (d):
  - (d) for a Facility in a Dispatch Interval, the formula in clause 3.21.8C.

115.7 The definition for 'Dispatch Input' in Chapter 11 (Glossary) is amended by inserting the word 'Unscheduled' immediately after the word 'Forecast' in paragraph (b).

115.8 The definition for 'Dispatch Interval' in Chapter 11 (Glossary) is amended by inserting the word '25,' immediately after the word '20,'.

115.9 The definition for 'Equipment Limit' in Chapter 11 (Glossary) is amended by deleting the word 'has' and replacing it with the word 'Has'.

115.10 The definition for 'Facility' in Chapter 11 (Glossary) is deleted and replaced with the following:

**Facility:** Has the meaning given in clause 2.29.1B, which can be an unregistered Facility or Registered Facility.

115.11 The definition for 'Gate Closure' in Chapter 11 (Glossary) is amended by:

- (a) deleting the words 'Means the' and replacing them with the word 'The'; and
- (b) deleting the words 'clauses 7.4.35(a) and 7.4.35(b)' and replacing them with the words 'clause 7.4.35'.

115.12 The definition for 'Indicative Individual Reserve Capacity Requirement' in Chapter 11 (Glossary) is amended by deleting the word 'published' and replacing it with the words 'provided to that Market Participant'.

115.13 The definition for 'Island' in Chapter 11 (Glossary) is amended by deleting the words 'energy producing systems' and replacing them with the words 'Energy Producing Systems' in each place where they occur.

115.14 The definition for 'Market Fees' in Chapter 11 (Glossary) is amended by:

- (a) deleting the words 'clause 2.24' and replacing them with the words 'section 2.24'; and
- (b) inserting the words ', Market Participant Coordinator Fees' immediately after the words 'Market Participant Market Fees'.

115.15 The definition for 'Market Participant Market Fees' in Chapter 11 (Glossary) is amended by:

- (a) deleting the words 'clause 2.24' and replacing them with the words 'section 2.24'; and
- (b) deleting the word '9.12.2' and replacing it with the word '9.12.3'.

115.16 The definition for 'Market Participant Regulator Fees' in Chapter 11 (Glossary) is amended by:

- (a) deleting the words 'clause 2.24' and replacing them with the words 'section 2.24';
- (b) deleting the words 'and the Rule Change Panel'; and
- (c) deleting the words 'their respective' and replacing them with the word 'its'.

115.17 The definition for 'Maximum Consumption Capability' in Chapter 11 (Glossary) is deleted and replaced with the following:

**Maximum Consumption Capability:** For a Market Participant, the maximum cumulative MWh quantity that the Market Participant is permitted to include in a Portfolio Demand Curve for a Trading Interval, determined in accordance with clause 6.3A.3(f).

115.18 The definition for 'Maximum Participant Generation Refund' in Chapter 11 (Glossary) is amended by:

- (a) deleting the words 'generating Facilities' and replacing them with the words 'Facilities (other than Facilities with a Facility Class or indicative Facility Class of Demand Side Programme)';
- (b) deleting the word 'that—' and replacing it with the word 'that.'; and
- (c) in paragraph (a), deleting the words 'its generating' and replacing them with the word 'those'.

115.19 The definition for 'Maximum Supply Capability' in Chapter 11 (Glossary) is deleted and replaced with the following:

**Maximum Supply Capability:** For a Market Participant is, the maximum cumulative MWh quantity that the Market Participant is permitted to include in a Portfolio Supply Curve for a Trading Interval, determined as calculated in accordance with clause 6.3A.3(e).

115.20 The definition for 'Medium Term PASA' in Chapter 11 (Glossary) is deleted and replaced with the following:

**Medium Term PASA:** A PASA covering the period in clause 3.16.1(a).

115.21 The definition for 'Minimum Consumption' in Chapter 11 (Glossary) is amended by deleting the words 'DSM Facility, as recorded and updated from time to time in Standing Data under Appendix 1, item (h)(xiv)' and replacing them with the words 'Demand Side Programme'.

115.22 The definition for 'Network Limit' in Chapter 11 (Glossary) is deleted and replaced with the following:

**Network Limit:** A limitation or requirement affecting the capability to transfer power in a part of a Network, such that it would be unacceptable to transfer electricity across that part of the Network at a level or in a manner outside the limit or requirement.

115.23 The definition for 'New Information' in Chapter 11 (Glossary) is deleted and replaced with the following:

**New Information:** Has the meaning given in clause 2.29.5LA.

115.24 The definition for 'Nominated Excess Capacity' in Chapter 11 (Glossary) is amended by deleting the words 'in any 12 month period' and replacing them with the words 'within any continuous 12-month period'.

115.25 The definition for 'Outage Facility' is amended by deleting the words 'Means an' and replacing them with the word 'An'.

115.26 The definition for 'Participant Capacity Rebate' in Chapter 11 (Glossary) is amended by deleting the word 'Month' and replacing it with the word 'Interval'.

115.27 The definition for 'Per-Dispatch Interval Availability Payment' in Chapter 11 (Glossary) is amended by:

- (a) deleting the words 'Availability Payment' and replacing them with the words 'SESSM Availability Payment'; and
- (b) deleting the words 'Availability Quantity' and replacing them with the words 'SESSM Availability Quantity'.

115.28 The definition for 'Planned Outage' in Chapter 11 (Glossary) is deleted and replaced with the following:

**Planned Outage:** An Outage Plan that has been approved by AEMO.

115.29 The definition for 'Refund Exempt Planned Outage Count' in Chapter 11 (Glossary) is deleted and replaced with the following:

**Refund Exempt Planned Outage Count:** In respect of a Separately Certified Component of a Scheduled Facility or Semi-Scheduled Facility and a period of time, the sum over all Trading Intervals in that period of:

- (a) if no Capacity Credits were associated with the Separately Certified Component in the Trading Interval, zero; or
- (b) otherwise:
  - i. if the Trading Interval occurs before 8:00 AM on 1 June 2016, zero;
  - ii. if the Trading Interval occurs on or after 8:00 AM on 1 June 2016 and before New WEM Commencement Day, the total MW quantity of Refund Exempt Planned Outage determined for the relevant Scheduled Generator (or Scheduled Generators) in the Trading Interval under the WEM Rules that were in force immediately before New WEM Commencement Day, divided by the number of Capacity Credits associated with the Scheduled Generator (or Scheduled Generators) in the Trading Interval; or
  - iii. if the Trading Interval occurs on or after New WEM Commencement Day, the total Refund Exempt Planned Outage Quantity determined by AEMO for the Separately Certified Component in the Trading Interval under clauses 4.26.1C or 4.26.1CA, divided by the number of Capacity Credits associated with the Separately Certified Component in the Trading Interval.

115.30 The definition for 'Repaid Amount' in Chapter 11 (Glossary) is amended by deleting the word '9.24.2(a)' and replacing it with the word '9.20.2(a)'.

115.31 The definition for 'Self-Scheduling Outage Facility' in Chapter 11 (Glossary) is deleted and replaced with the following:

**Self-Scheduling Outage Facility:** A Facility that is included on the Self-Scheduling Outage Facility List.

115.32 The definition for 'SESSM Availability Payment' in Chapter 11 (Glossary) is amended by deleting the words 'Availability Quantity' and replacing them with the words 'SESSM Availability Quantity'.

115.33 The definition for 'SESSM Availability Requirement' in Chapter 11 (Glossary) is amended by deleting the words 'Availability Quantity' and replacing them with the words 'SESSM Availability Quantity'.

115.34 The definition for 'Small Aggregation' in Chapter 11 (Glossary) is deleted and replaced with the following:

**Small Aggregation:** One or more Facilities connected to the distribution system and located at the same Electrical Location.

115.35 The definition for 'Start Decision Cutoff' in Chapter 11 (Glossary) is amended by:

- (a) inserting the words 'and Dispatch Interval' immediately after the words 'Registered Facility';
- (b) inserting the words 'decide to' immediately after the words 'Market Participant could'; and
- (c) deleting the words 'achieve synchronisation for the energy for' and replacing them with the words 'make the capacity ready for dispatch in'.

115.36 The definition for 'STEM Reserve Capacity Obligation Quantity' in Chapter 11 (Glossary) is amended by:

- (a) inserting the words 'a Scheduled Facility or Semi-Scheduled Facility, or' immediately after the words 'Quantity for';
- (b) inserting a comma immediately after the words 'a Separately Certified Component of a Scheduled Facility or Semi-Scheduled Facility'; and
- (c) deleting the words 'Chapter 6' and replacing them with the words 'clause 6.3A.3(h)'.

115.37 The definition for 'Supplementary Capacity Contract' in Chapter 11 (Glossary) is amended by deleting the word 'clause' and replacing it with the word 'section'.

115.38 The definition for 'System Inertia' in Chapter 11 (Glossary) is deleted and replaced with the following:

**System Inertia:** The total Inertia provided by Registered Facilities, Loads, Network equipment and other equipment connected to the SWIS.

115.39 The definition for 'System Size' in Chapter 11 (Glossary) is amended by deleting the words 'Means, in respect of a Facility beng' and replacing them with the words 'In respect of a Facility,'.

115.40 The definition for 'System Strength' in Chapter 11 (Glossary) is deleted and replaced with the following:

**System Strength:** Is a measure of how resilient the voltage waveform is to disturbances such as those caused by a sudden change in Load or an Energy Producing System, the switching of a Network element, tapping of transformers and other types of faults.

115.41 The definition for 'Trading Week' in Chapter 11 (Glossary) is deleted and replaced with the following:

**Trading Week:** A period of seven days commencing at 8:00 AM on the day of the week on which the New WEM Commencement Day commences.

115.42 Each of the definitions listed in the following table in Chapter 11 (Glossary) is deleted:

Table
AEMO Confidential
Applicable DSP Ramp Rate Limit
Balancing Facility Maximum Capacity
Capacity-Adjusted Consequential Outage Quantity
Capacity-Adjusted Forced Outage Quantity
Capacity-Adjusted Planned Outage Quantity
Coordinator Fees
Dispatch Advisory
Downwards Out of Merit Generation
DSP Ramp Rate Limit
Operational System Load Estimate
Participant Interval Maximum STEM Price
Participant Interval Minimum STEM Price
Portfolio Downwards Out of Merit Generation
Portfolio Upwards Out of Merit Generation
Public
Refund Exempt Planned Outage
Refund Payable Planned Outage
Rule Participant Dispatch Restricted
Rule Participant Market Restricted
System Operation Confidential
System Operation Fees
Unadjusted Consequential Outage Quantity
Unadjusted Forced Outage Quantity
Unadjusted Planned Outage Quantity
Upwards Out of Merit Generation

## 116. Appendix 1 amended

116.1 Appendix 1 is deleted and replaced with the following:

# Appendix 1: Standing Data

This Appendix describes the Standing Data to be maintained by AEMO for use by AEMO in market processes and in dispatch processes.

Standing Data required to be provided as a pre-condition of Market Participant registration and which Market Participants are to update as necessary, is described in Appendix 1(a).

Standing Data required to be provided as a pre-condition of Facility registration and which Rule Participants are to update as necessary, is described in Appendix 1(b) to 1(f).

Standing Data not required to be provided as a pre-condition of Facility registration but which AEMO is required to maintain, and which Rule Participants are to update as necessary, includes the data described in Appendix 1(g) to 1(i).

- (a) For each Market Participant, the maximum Loss Factor adjusted quantity of energy, in units of MWh, that could be consumed during a Trading Interval by the Market Participant's Registered Facilities and Non-Dispatchable Loads.
- (b) For a Scheduled Facility:
  - i. the total nameplate capacity of the Facility's Energy Producing System, expressed in MW;
  - ii. the nameplate capacity of each Facility Technology Type in the Facility, excluding Loads;
  - iii. the System Size;
  - iv. if the Facility is a Small Aggregation;
  - v. the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from the Facility under optimal conditions, expressed in MW;
  - vA. the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from Non-Intermittent Generating Systems in the Facility under optimal conditions, expressed in MW;
  - vB. the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from Intermittent Generating Systems in the Facility under optimal conditions, expressed in MW;
  - vC. the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from Electric Storage Resources in the Facility under optimal conditions, expressed in MW;
  - vD. the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply across the Electric Storage Resource Obligation Duration to the relevant Network from Electric Storage Resources in the Facility under optimal conditions, expressed in MW;
  - vi. the maximum Withdrawal capacity of the Facility under optimal conditions, expressed in MW;

- vii. the dependence of sent out capacity on temperature at the location of the Facility;
- viii. the method to be used for determining the ambient temperature at the site of the Facility (where if no method is specified, a constant temperature of 41 degrees Celsius will be assumed);
- ix. if the Facility has a Separately Certified Component that is a Non-Intermittent Generating System, the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from the Non-Intermittent Generating System when it is operated normally at an ambient temperature of:
  - 1. 41 degrees Celsius; and
  - 2. 45 degrees Celsius;
- x. if the Facility has a Separately Certified Component that is a Non-Intermittent Generating System, the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from the Non-Intermittent Generating System under optimal conditions, expressed in MW;
- xA. if the Facility has a Separately Certified Component that is an Intermittent Generating System, the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from the Intermittent Generating System under optimal conditions, expressed in MW;
- xi. if the Facility has a Separately Certified Component that is an Electric Storage Resource, the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from the Electric Storage Resource when it is operated normally at an ambient temperature of:
  - 1. 41 degrees Celsius; and
  - 2. 45 degrees Celsius;
- xii. if the Facility has a Separately Certified Component that is an Electric Storage Resource, the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply across the Electric Storage Resource Obligation Duration to the relevant Network from the Electric Storage Resource under optimal conditions, expressed in MW;



- xiii. if the Facility has a Separately Certified Component that is an Electric Storage Resource, the minimum Charge Level capability of the Electric Storage Resource;
- xiv. details of the fuel or fuels that each Non-Intermittent Generating System in the Facility can use, including dual fuel capabilities and the process for changing fuels;
- xv. the dependence of capacity on the type of fuel used by each Non-Intermittent Generating System in the Facility for each fuel described in Appendix 1(b)(xiv);
- xvi. details of any potential energy limits of the Facility;
- xvii. if the Facility is a Fast Start Facility;
- xxiii. the minimum time to synchronisation for the Facility from each of the following states, if applicable:
  - 1. cold;
  - 2. warm; and
  - 3. hot,
 and the number of hours that must have elapsed since the Facility last ran for it to be considered in each of these states;
- xix. the minimum time before each Facility Technology Type in the Facility can be restarted after it is shut down, excluding Loads;
- xx. the minimum stable loading level of the Facility, expressed in sent out MW;
- xxi. the minimum dispatchable loading level of the Facility, expressed in sent out MW;
- xxii. the minimum physical response time before the Facility can begin to respond to a Dispatch Instruction, when the Facility is running;
- xxiii. any output range between minimum dispatchable loading level and nameplate capacity in which the Facility is incapable of stable or safe operation;
- xxiv. the minimum load at the connection point of the Facility that will automatically trip off if the Facility fails, expressed in MW;
- xxv. sub-transient, transient and steady state impedances (positive, negative and zero sequence) for the Facility;
- xxvi. the Standing Maximum Upwards Ramp Rate;

- xxvii. the Standing Maximum Downwards Ramp Rate;
- xxviii. the emergency upwards ramp rate;
- xxix. the emergency downwards ramp rate;
- xxx. the overload Injection capacity of the Facility, if any, expressed in MW;
- xxxi. the overload Withdrawal capacity of the Facility, if any, expressed in MW;
- xxxii. the AGC capabilities of the Facility;
- xxxiii. the black start capability of the Facility;
- xxxiv. the short circuit capability of Facility equipment;
- xxxv. evidence that the communication and control systems required by section 2.35 are in place and operational;
- xxxvi. the single line diagram for the Facility, including the locations of transformers, switches, operational and settlement meters;
- xxxvii. the network node or nodes at which the Facility can connect;
- xxxviii. the Transmission Node Identifier;
- xxxix. the National Meter Identifier of each metering point for the Facility, where applicable; and
- xl. the Metering Data Agent for the Facility.

(c) For a Semi-Scheduled Facility:

- i. the total nameplate capacity of the Facility's Energy Producing System, expressed in MW;
- ii. the nameplate capacity of each Facility Technology Type in the Facility, excluding Loads;
- iii. the System Size;
- iv. if the Facility is a Small Aggregation;
- v. the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from the Facility under optimal conditions, expressed in MW;
- vA. the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from Non-Intermittent Generating Systems in the Facility under optimal conditions, expressed in MW;

- vB. the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from Intermittent Generating Systems in the Facility under optimal conditions, expressed in MW;
- vC. the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from Electric Storage Resources in the Facility under optimal conditions, expressed in MW;
- vD. the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply across the Electric Storage Resource Obligation Duration to the relevant Network from Electric Storage Resources in the Facility under optimal conditions, expressed in MW;
- vi. the maximum Withdrawal capacity of the Facility under optimal conditions, expressed in MW;
- vii. the dependence of sent out capacity on temperature at the location of the Facility, if applicable;
- viii. the method to be used for determining the ambient temperature at the site of the Facility (where if no method is specified, a constant temperature of 41 degrees Celsius will be assumed);
- ix. if the Facility has a Separately Certified Component that is a Non-Intermittent Generating System, the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from the Non-Intermittent Generating System when it is operated normally at an ambient temperature of:
  - 1. 41 degrees Celsius; and
  - 2. 45 degrees Celsius;
- x. if the Facility has a Separately Certified Component that is a Non-Intermittent Generating System, the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from the Non-Intermittent Generating System under optimal conditions, expressed in MW;
- xA. if the Facility has a Separately Certified Component that is an Intermittent Generating System, the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for

supply to the relevant Network from the Intermittent Generating System under optimal conditions, expressed in MW;

- xi. if the Facility has a Separately Certified Component that is an Electric Storage Resource, the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from the Electric Storage Resource when it is operated normally at an ambient temperature of:
  - 1. 41 degrees Celsius; and
  - 2. 45 degrees Celsius;
- xii. if the Facility has a Separately Certified Component that is an Electric Storage Resource, the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply across the Electric Storage Resource Obligation Duration to the relevant Network from the Electric Storage Resource under optimal conditions, expressed in MW;
- xiii. if the Facility has a Separately Certified Component that is an Electric Storage Resource, the minimum Charge Level capability of the Electric Storage Resource;
- xiv. details of the fuel or fuels that each Non-Intermittent Generating System in the Facility can use, including dual fuel capabilities and the process for changing fuels;
- xv. the dependence of capacity on the type of fuel used by each Non-Intermittent Generating System in the Facility for each fuel described in Appendix 1(c)(xiv);
- xvi. if the Facility is a Fast Start Facility;
- xvii. the minimum time to synchronisation for the Facility from each of the following states, if applicable:
  - 1. cold;
  - 2. warm; and
  - 3. hot,and the number of hours that must have elapsed since the Facility last ran for it to be considered in each of these states;
- xviii. the minimum time before each Facility Technology Type in the Facility can be restarted after it is shut down, excluding Loads;

- xix. the minimum stable loading level of the Facility, expressed in sent out MW;
- xx. the minimum dispatchable loading level of the Facility, expressed in sent out MW;
- xxi. the minimum physical response time before the Facility can begin to respond to a Dispatch Instruction, when the Facility is running;
- xxii. any output range between minimum dispatchable loading level and nameplate capacity in which the Facility is incapable of stable or safe operation, if applicable;
- xxiii. the minimum load at the connection point of the Facility that will automatically trip off if the Facility fails, expressed in MW;
- xxiv. sub-transient, transient and steady state impedances (positive, negative and zero sequence) for the Facility;
- xxv. the Standing Maximum Upwards Ramp Rate;
- xxvi. the Standing Maximum Downwards Ramp Rate;
- xxvii. the emergency upwards ramp rate, if applicable;
- xxviii. the emergency downwards ramp rate, if applicable;
- xxix. the overload Injection capacity of the Facility, if any, expressed in MW;
- xxx. the overload Withdrawal capacity of the Facility, if any, expressed in MW;
- xxxi. the short circuit capability of Facility equipment;
- xxxii. evidence that the communication and control systems required by section 2.35 are in place and operational;
- xxxiii. the single line diagram for the Facility, including the locations of transformers, switches, operational and settlement meters;
- xxxiv. the network node or nodes at which the Facility can connect;
- xxxv. the Transmission Node Identifier;
- xxxvi. the National Meter Identifier of each metering point for the Facility, where applicable; and
- xxxvii. the Metering Data Agent for the Facility.

(d) for a Non-Scheduled Facility:

- i. the total nameplate capacity of the Facility's Energy Producing System, expressed in MW;
- ii. the nameplate capacity of each Facility Technology Type in the Facility, excluding Loads;
- iii. the System Size;
- iv. if the Facility is a Small Aggregation;
- v. the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from the Facility under optimal conditions, expressed in MW;
- vA. the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from Non-Intermittent Generating Systems in the Facility under optimal conditions, expressed in MW;
- vB. the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from Intermittent Generating Systems in the Facility under optimal conditions, expressed in MW;
- vC. the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply to the relevant Network from Electric Storage Resources in the Facility under optimal conditions, expressed in MW;
- vD. the maximum sent out capacity, net of embedded and Parasitic Loads, that can be available for supply across the Electric Storage Resource Obligation Duration to the relevant Network from Electric Storage Resources in the Facility under optimal conditions, expressed in MW;
- vi. the maximum Withdrawal capacity of the Facility under optimal conditions, expressed in MW;
- vii. the dependence of sent out capacity on temperature at the location of the Facility, if applicable;
- viii. details of the fuel or fuels that each Non-Intermittent Generating System in the Facility can use, including dual fuel capabilities and the process for changing fuels;
- ix. the minimum dispatchable loading level of the Facility, expressed in sent out MW;

- x. the minimum physical response time before the facility can begin to respond to a direction from AEMO to change its output when the Facility is running;
- xi. the minimum load at the connection point of the Facility that will automatically trip off if the Facility fails, expressed in MW;
- xii. sub-transient, transient and steady state impedances (positive, negative and zero sequence) for the Facility;
- xiii. the Standing Maximum Upwards Ramp Rate;
- xiv. the Standing Maximum Downwards Ramp Rate;
- xv. the emergency upwards ramp rate, if applicable;
- xvi. the emergency downwards ramp rate, if applicable;
- xvii. the overload Injection capacity of the Facility, if any, expressed in MW;
- xviii. the overload Withdrawal capacity of the Facility, if any, expressed in MW;
- xix. the short circuit capability of equipment;
- xx. evidence that the communication and control systems required by section 2.35 are in place and operational;
- xxi. the single line diagram for the, including the locations of transformers, switches, operational and settlement meters;
- xxii. the network node or nodes at which the Facility can connect;
- xxiii. the Transmission Node Identifier;
- xxiv. the National Meter Identifier of each metering point for the Facility, where applicable; and
- xxv. the Metering Data Agent for the Facility.

(e) For an Interruptible Load:

- i. evidence that the communication and control systems required by section 2.35 are in place and operational;
- ii. details of the real-time telemetry capabilities;
- iii. the short circuit capability of Facility equipment;
- iv. the single line diagram for the Facility, including the locations of transformers, switches, operational and settlement meters, if applicable;

- v. the network nodes at which the Associated Loads of the Facility can connect; and
  - vi. the Transmission Node Identifier.
- (f) For a Demand Side Programme:
  - i. the maximum number of hours per day that the Facility will be available to provide Reserve Capacity if issued a Dispatch Instruction;
  - ii. the Trading Intervals where the Demand Side Programme can be curtailed;
  - iii. any restrictions on the availability of the Demand Side Programme;
  - iv. the minimum notice period required for dispatch under clause 7.6.15 of the Facility;
  - v. evidence that the communication and control systems required by clause 2.35 are in place and operational; and
  - vi. details of the real-time telemetry capabilities of the Facility.
- (g) For a Market Participant serving Non-Dispatchable Loads containing Intermittent Loads:
  - i. the identity of the metering points measuring the Intermittent Loads;
  - ii. for each metering point identified in Appendix 1(g)(i), the maximum allowed level of Intermittent Load;
  - iii. for each metering point identified in Appendix 1(g)(i), the maximum level of net consumption at that meter which is not separately metered and which is not Intermittent Load; and
  - iv. for each metering point identified in Appendix 1(g)(i), the separately metered Energy Producing Systems and Loads behind that meter which are not to be included in the definition of that Intermittent Load.
- (h) For each Facility accredited to provide a Frequency Co-optimised Essential System Service, the Frequency Co-optimised Essential System Service Accreditation Parameters.
- (i) For each Facility accredited for RoCoF Ride-Through Capability, the RoCoF Ride-Through Capability of the Facility determined by AEMO.



## 117. Appendix 2A amended

117.1 Clause 2.1(b)(ii) of Appendix 2A is amended by deleting the words 'Facility Risk for f' and replacing them with the words 'Facility Risk for the Facility'.

117.2 Clause 2.3 of Appendix 2A is deleted and replaced with the following:

2.3 Determine ApplicableFacilities(DI), which comprises those members f of Facilities(DI) for which:

$$FacilityRisk(f, DI) \geq 10MW$$

117.3 Insert the following new clause 2.4 in Appendix 2A:

2.4 Determine AdditionalApplicableFacilities(DI), which comprises those members f of AdditionalIMLFacilities(DI) for which:

$$FacilityRisk(f, DI) \geq 10MW$$

117.4 The heading for section 3 of Appendix 2A '**Applicable Facility SharesF**' is deleted and replaced with the following:

### **Applicable Facility Shares**

117.5 Clause 3.1 of Appendix 2A is amended by deleting the word '10.5.1(c)(vii)' and replacing it with the word '2.34B.1(f)'.

117.6 Clause 4.1 of Appendix 2A is amended by deleting the words 'clause clause 7.2.4' and replacing them with the words 'clause 7.2.4'.

117.7 Clause 4.3 of Appendix 2A is deleted and replaced with the following:

4.3 Determine ApplicableNetworkContingencies(DI), which comprises those members nc of NetworkContingencies(DI) for which:

$$NetworkRisk(nc, DI) > 0MW$$

117.8 Clause 4.5(b) of Appendix 2A is amended by deleting the word '10.5.1(c)(vii)' and replacing it with the words '2.34B.1(f)'.

117.9 Clause 5.2 of Appendix 2A is amended by inserting the following immediately after the formula for calculating 'NetworkShare(nc,f,DI):

where:

- (a) m(DI) is determined in clause 4.4 of this Appendix 2A; and
- (b) NetworkRunwayShare(nc, f, DI) is determined in clause 4.5(c) of this Appendix 2A.

## 118. Appendix 2B amended

118.1 Clause 2.1 of Appendix 2B is amended by:

- (a) deleting the words 'Market Participant's' and replacing them with the words 'Rule Participant's'; and
- (b) deleting the word 'the' immediately after the word 'following'.

118.2 Clause 2.2 of Appendix 2B is deleted and replaced with the following:

2.2 For each Trading Interval  $t$ , define the set of RoCoF Causers( $t$ ), being each of:

- (a) Network Causer( $t$ ): the set of Networks registered to Western Power which are RoCoF Causers under clause 2.34A.12J in Trading Interval  $t$ ;
- (b) Injection Causer( $t$ ): the set of Scheduled Facilities, Semi-Scheduled Facilities or Non-Scheduled Facilities that are recorded in Standing Data as including an Energy Producing System, which have a non-zero Metered Schedule in Trading Interval  $t$  and which are RoCoF Causers under clause 2.34A.12J in Trading Interval  $t$ ; and
- (c) Offtake Causer( $t$ ): the set of:
  - i. all Scheduled Facilities, Semi-Scheduled Facilities or Non-Scheduled Facilities which comprise only Loads; and
  - ii. all Non-Dispatchable Loads (including Synergy's Notional Wholesale Meter where Synergy is the Market Participant),which have non-zero Metered Schedules in Trading Interval  $t$  and which are RoCoF Causers under clause 2.34A.12J in Trading Interval  $t$ .

118.3 Clause 2.5 of Appendix 2B is deleted and replaced with the following:

2.5 Determine Western Power's share of the Minimum RoCoF Control Requirement component of the RoCoF Control Service cost in Trading Interval  $t$  as follows:

$$WPSHare(t) = \frac{1}{n(t)} \times NetworkCauserFactor(t)$$

where:

- (a) NetworkCauserFactor( $t$ ) is the Causer Factor for the subset Network Causer( $t$ ) in Trading Interval  $t$  as calculated in clause 2.3(a) of this Appendix 2B; and
- (b)  $n(t)$  is the total number of causer groups in Trading Interval  $t$  as calculated in clause 2.4 of this Appendix 2B.

118.4 Clause 2.8(e) of Appendix 2B is deleted and replaced with the following:

- (e) NOShare( $p,t$ ) is, for Western Power, WPSHare( $t$ ), as calculated in clause 2.5 of this Appendix 2B, and for all other Rule Participants, zero.

## **119. Appendix 2C amended**

119.1 Clause 1.1 of Appendix 2C is amended by deleting the words 'Appendix 2B' and replacing them with the words 'Appendix 2C'.

119.2 Clause 2.2 of Appendix 2C is amended by inserting the word 'a' immediately after the words 'Where AEMO has made a SESSM Award '.

119.3 Insert the following new clause 2.3(b)(ii) in Appendix 2C:

- ii. MinAvailability(a) is the percentage determined under clause 2.2(d) of this Appendix 2C; and

119.4 Clause 2.3(c)(i) of Appendix 2C is amended by deleting the full stop at the end of the clause and replacing it with the word '; and'.

119.5 Insert the following new clause 2.3(c)(ii) in Appendix 2C:

- ii. AvailabilityPayment(a,DI) is the quantity determined under clause 2.2(c) of this Appendix 2C.

119.6 Clause 2.4 of Appendix 2C is amended by inserting the word 'f' immediately after the words 'For each Dispatch Interval DI determine whether a Registered Facility'.

119.7 Clause 2.4(a)(ii) of Appendix 2C is deleted and replaced with the following:

- ii. if:
  - 1. Registered Facility f is subject to a Planned Outage or a Forced Outage in Dispatch Interval DI; and
  - 2. in AEMO's view, the sum of the quantities offered in the relevant Market Participant's Real-Time Market Submission in respect of Registered Facility f does not accurately reflect the Facility's capability to provide Frequency Co-optimised Essential System Service c in Dispatch Interval DI,then, AEMO's reasonable estimate of Registered Facility f's capability in MW or MWs, as the case may be, to provide Frequency Co-optimised Essential System Service c in Dispatch Interval DI, if that quantity is lower than the quantity specified in clause 2.4(a)(i) of this Appendix 2C; or

119.8 Insert the following new clause 2.4(a)(iii) in Appendix 2C:

- iii. if the relevant Real-Time Market Submission:
  - 1. did not present the relevant Essential System Service Enablement Quantity as In-Service Capacity in accordance with clause 7.4.5(c)(i); or
  - 2. did not offer sufficient capacity as In-Service for energy to allow the Registered Facility to be dispatched for energy between its enablement limits in accordance with clause 7.4.5(c)(ii),

then AEMO's reasonable estimate of Registered Facility f's capability in MW or MWs, as applicable, that was In-Service Capacity in respect of Frequency Co-optimised Essential System Service c in Dispatch Interval DI, if that quantity is lower than the quantities specified in clauses 2.4(a)(i) or (if applicable) 2.4(a)(ii) of this Appendix 2C;

119.9 Insert the following new clause 2.4(b) in Appendix 2C:

- (b) BaseQuantity(a,DI) is the quantity determined under clause 2.2(a) of this Appendix 2C; and

119.10 Insert the following new clause 2.4(c) in Appendix 2C:

- (c) AvailabilityQuantity(a,DI) is the quantity determined under clause 2.2(b) of this Appendix 2C.

119.11 Clause 2.6(f) of Appendix 2C is deleted and replaced with the following:

- (f) [Blank]

119.12 Clause 2.7 of Appendix 2C is deleted and replaced with the following:

- 2.7 Calculate the SESSM shortfall for each SESSM Award for each Dispatch Interval as follows:

$$\text{SESSMShortfall}(a,DI) = \max\left(0, \frac{\text{AvailabilityQuantity}(a,DI) - \max(0, \text{ESSOffer}(f,c,DI) - \text{BaseQuantity}(a,DI))}{\text{AvailabilityQuantity}(a,DI)}\right)$$

where:

- (a) AvailabilityQuantity(a,DI) is the quantity determined under clause 2.2(b) of this Appendix 2C;
- (b) ESSOffer(f,c,DI) is the quantity determined under clause 2.4(a) of this Appendix 2C; and
- (c) BaseQuantity(a,DI) is the quantity determined under clause 2.2(a) of this Appendix 2C.

119.13 Clause 2.8 of Appendix 2C is deleted and replaced with the following:

- 2.8 Calculate the Per-Dispatch Interval Facility Availability Payments and Facility SESSM Refunds for Registered Facility f, as follows:

- (a) calculate the Per-Dispatch Interval Facility Availability Payments for Registered Facility f in respect of each Frequency Co-optimised Essential System Service in Dispatch Interval DI as follows:

$$\text{RR\_AvailabilityPayment}(f,DI) = \sum_{a \in \text{ARR}} \text{AvailabilityPayment}(a,DI);$$

$$\text{RL\_AvailabilityPayment}(f,DI) = \sum_{a \in \text{ARL}} \text{AvailabilityPayment}(a,DI);$$

$$\text{CR\_AvailabilityPayment}(f,DI) = \sum_{a \in \text{ACR}} \text{AvailabilityPayment}(a,DI);$$

$$CL\_AvailabilityPayment(f,DI) = \sum_{a \in ACL} AvailabilityPayment(a,DI);$$

$$RCS\_AvailabilityPayment(a,DI) = \sum_{a \in ARCS} AvailabilityPayment(a,DI);$$

where:

- i.  $a \in ARR$  is the set of SESSM Awards awarded to the Market Participant to whom Registered Facility f is registered to provide Regulation Raise in Dispatch Interval DI;
  - ii.  $a \in ARL$  is the set of SESSM Awards awarded to the Market Participant to whom Registered Facility f is registered to provide Regulation Lower in Dispatch Interval DI;
  - iii.  $a \in ACR$  is the set of SESSM Awards awarded to the Market Participant to whom Registered Facility f is registered to provide Contingency Reserve Raise in Dispatch Interval DI;
  - iv.  $a \in ACL$  is the set of SESSM Awards awarded to the Market Participant to whom Registered Facility f is registered to provide Contingency Reserve Lower in Dispatch Interval DI;
  - v.  $a \in ARCS$  is the set of SESSM Awards awarded to the Market Participant to whom Registered Facility f is registered to provide RoCoF Control Service in Dispatch Interval DI; and
  - vi.  $AvailabilityPayment(a,DI)$  is the quantity determined under clause 2.2(c) of this Appendix 2C; and
- (b) calculate the Facility SESSM Refunds for Registered Facility f in respect of each Frequency Co-optimised Essential System Service in Dispatch Interval DI, as follows:

$$RR\_SESSMRefund(f,DI) = \sum_{a \in ARR} SESSMRefund(a,DI);$$

$$RL\_SESSMRefund(f,DI) = \sum_{a \in ARL} SESSMRefund(a,DI);$$

$$CR\_SESSMRefund(f,DI) = \sum_{a \in ACR} SESSMRefund(a,DI);$$

$$CL\_SESSMRefund(f,DI) = \sum_{a \in ACL} SESSMRefund(a,DI); \text{ and}$$

$$RCS\_SESSMRefund(f,DI) = \sum_{a \in ARCS} SESSMRefund(a,DI),$$

where:

- i.  $SESSMRefund(a,DI)$  is the quantity determined under clause 2.6 of this Appendix 2C;
- ii.  $a \in ARR$  is the set of SESSM Awards awarded to the Market Participant to whom Registered Facility f is registered to provide Regulation Raise in Dispatch Interval DI;

- iii.  $a \in \text{ARL}$  is the set of SESSM Awards awarded to the Market Participant to whom Registered Facility  $f$  is registered to provide Regulation Lower in Dispatch Interval  $DI$ ;
- iv.  $a \in \text{ACR}$  is the set of SESSM Awards awarded to the Market Participant to whom Registered Facility  $f$  is registered to provide Contingency Reserve Raise in Dispatch Interval  $DI$ ;
- v.  $a \in \text{ACL}$  is the set of SESSM Awards awarded to the Market Participant to whom Registered Facility  $f$  is registered to provide Contingency Reserve Lower in Dispatch Interval  $DI$ ; and
- vi.  $a \in \text{ARCS}$  is the set of SESSM Awards awarded to the Market Participant to whom Registered Facility  $f$  is registered to provide RoCoF Control Service in Dispatch Interval  $DI$ .

**120. Appendix 4A amended**

120.1 Appendix 4A is amended by deleting the words 'or 4.28.8A'.

**121. Appendix 5 amended**

121.1 Clause 10 of Appendix 5 is amended by deleting the words 'A meter measuring a Registered Facility' and replacing them with the words 'A meter measuring a Scheduled Facility, Semi-Scheduled Facility or Non-Scheduled Facility'.

**122. Appendix 5A amended**

122.1 Appendix 5A is amended by deleting the word '4.28.8C(a)' and replacing it with the word '4.28.8C' in each place where it occurs.

122.2 Appendix 5A is amended by deleting the third bullet point (including its contents) under the paragraph 'For the purpose of this Appendix:' and replacing it with the following:

AEMO must treat each connection point measured by an interval meter measuring a Scheduled Facility, Semi-Scheduled Facility or Non-Scheduled Facility as if it were a separate Non-Dispatchable Load.

**123. Appendix 6 amended**

123.1 Appendix 6(a)(v) is amended by deleting the word 'where' and replacing it with the word 'where:'.

123.2 Appendix 6(a)(v)(1) is amended by:

- (a) inserting the words 'Appendix 6(a)' immediately before the word '(ii)'; and
- (b) inserting the words 'Appendix 6(a)' immediately before the word '(iii)'.

123.3 Appendix 6(a)(v)(2) is amended by:

- (a) inserting the words 'Appendix 6(a)' immediately before the word '(i)'; and
- (b) inserting the words 'Appendix 6(a)' immediately before the word '(iv)'.

123.4 Appendix 6(a)(v)(3) is amended by:

- (a) inserting the words 'Appendix 6(a)(v)' immediately before the word '(1)'; and
- (b) inserting the words 'Appendix 6(a)(v)' immediately before the word '(2)'.

123.5 Appendix 6(b) is deleted and replaced with the following:

- (b) If the minimum of the quantities determined under Appendix 6(a)(v)(1) for the Market Participant for the Trading Interval is greater than the Net Bilateral Position of the Market Participant in the Trading Interval then:
  - i. if, for every price between the Minimum STEM Price and the Alternative Maximum STEM Price, the quantity determined under Appendix 6(a)(v)(1) is equal to the quantity determined under Appendix 6(a)(v)(2), then amend the STEM Price Curve for the Minimum STEM Price to include all quantities between the Net Bilateral Position of the Market Participant and the quantity determined for the Minimum STEM Price under Appendix 6(a)(v)(2); and
  - ii. otherwise, amend the STEM Price Curve for the lowest price for which the quantity determined under Appendix 6(a)(v)(1) is not equal to the quantity determined under Appendix 6(a)(v)(2), to include all quantities between the Net Bilateral Position of the Market Participant and the quantity determined for the price under Appendix 6(a)(v)(2).

123.6 Appendix 6(c) is deleted and replaced with the following:

- (c) If the maximum of the quantities determined under Appendix 6(a)(v)(2) for the Market Participant for the Trading Interval is less than the Net Bilateral Position of the Market Participant then:
  - i. if, for every price between the Minimum STEM Price and the Alternative Maximum STEM Price, the quantity determined under Appendix 6(a)(v)(1) is equal to the quantity determined under Appendix 6(a)(v)(2), then amend the STEM Price Curve for the Alternative Maximum STEM Price to include all quantities between the quantity determined for the Alternative Maximum STEM Price under Appendix 6(a)(v)(1) and the Net Bilateral Position of the Market Participant; and
  - ii. otherwise, amend the STEM Price Curve for the highest price for which the quantity determined under Appendix 6(a)(v)(1) is not equal to the quantity determined under Appendix 6(a)(v)(2), to include all quantities between the quantity determined for the price under Appendix 6(a)(v)(1) and the Net Bilateral Position of the Market Participant.

123.7 Appendix 6(d)(ii) is amended by inserting the words 'Appendix 6(d)' immediately before the word '(i)'.

123.8 Appendix 6(d)(iii) is amended by inserting the words 'Appendix 6(d)' immediately before the word '(i)'.

123.9 Appendix 6(d)(iv) is amended by inserting the words 'Appendix 6(d)' immediately before the word '(i)'.

123.10 Appendix 6(d)(v) is amended by:

- (a) inserting the words 'Appendix 6(d)' immediately before the word '(i)';
- (b) inserting the words 'Appendix 6(d)' immediately before the word '(iii)';
- (c) inserting the words 'Appendix 6(d)' immediately before the word '(ii)'; and
- (d) inserting the word 'and' after the semi-colon at the end of the clause.

123.11 Appendix 6(d)(vi) is amended by:

- (a) inserting the words 'Appendix 6(d)' immediately before the word '(iv)'; and
- (b) inserting the words 'Appendix 6(d)' immediately before the word '(v)'.

123.12 Appendix 6(d)(vi)(2) is amended by inserting the word 'and' immediately after the semi-colon at the end of the clause.

123.13 Appendix 6(d)(vi)(3) is amended by deleting the semi-colon at the end of the clause and replacing it with a full stop.

123.14 Appendix 6(e)(ii) is amended by inserting the words 'Appendix 6(e)' immediately before the word '(i)'.

123.15 Appendix 6(e)(iii) is amended by inserting the words 'Appendix 6(e)' immediately before the word '(i)'.

123.16 Appendix 6(e)(iv) is amended by inserting the words 'Appendix 6(e)' immediately before the word '(i)'.

123.17 Appendix 6(e)(v) is amended by:

- (a) inserting the words 'Appendix 6(e)' immediately before the word '(i)';
- (b) inserting the words 'Appendix 6(e)' immediately before the word '(iii)';
- (c) inserting the words 'Appendix 6(e)' immediately before the word '(ii)'; and
- (d) inserting the word 'and' after the semi-colon at the end of the clause.

123.18 Appendix 6(e)(vi) is amended by:

- (a) inserting the words 'Appendix 6(e)' immediately before the word '(iv)'; and
- (b) inserting the words 'Appendix 6(e)' immediately before the word '(v)'.



123.19 Appendix 6(e)(vi)(2) is amended by inserting the word 'and' immediately after the semi-colon at the end of the clause.

123.20 Appendix 6(e)(vi)(3) is amended by deleting the semi-colon at the end of the clause and replacing it with a full stop.

**124. Appendix 9 amended**

124.1 Appendix 9 is amended by inserting the following new 'Step 21' immediately after 'Step 20':

Step 21: Publish on the WEM Website the following information identified for a Reserve Capacity Cycle under the Relevant Level Methodology:

- (a) the Existing Facility Load for Scheduled Generation for each Trading Interval in the five year period determined under Step 1(a) of Appendix 9; and
- (b) the 12 Trading Intervals occurring on separate Trading Days with the highest Existing Facility Load for Scheduled Generation for each 12 month period in the five year period.