

Electricity Industry (Wholesale Electricity Market) Regulations 2004

Wholesale Electricity Market Amendment (Miscellaneous Amendments No. 1) Rules 2021

Commencement

- The amending rules set out in Schedule A come into operation immediately after the commencement of:
 - the amending rules in Schedule B of the *Wholesale Electricity Market Amendment (Governance) Rules 2021*, that commence at 8:00 AM (WST) on 1 July 2021; and
 - the *Wholesale Electricity Market Amendment (Tranches 2 and 3 Amendments) Rules 2020* specified in Part 2 of the commencement notice dated 25 January 2021, and Part 1 of the commencement notice dated 24 May 2021, that commence at 8:00 AM (WST) on 1 July 2021.
- The amending rules set out in Schedule B come into operation at 8:00 AM (WST) on 1 August 2021.
- The amending rules set out in Schedule C come into operation immediately after the commencement of:
 - the amending rules in the *Wholesale Electricity Market Amendment (Reserve Capacity Pricing Reforms) Rules 2019*, that commence at 8:00 AM (WST) on 1 October 2021; and
 - the amending rules set out in Schedule C of the *Wholesale Electricity Market Amendment (Tranche 1 Amendments) Rules 2020*, that commence at 8:00 AM (WST) on 1 October 2021.
- The amending rules set out in Schedule D come into operation immediately after the commencement of the *Wholesale Electricity Market Amendment (Tranches 2 and 3 Amendments) Rules 2020* specified in Part 4 of the commencement notice dated 24 May 2021, that commence at 8:00 AM (WST) on 1 March 2022.
- 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.

Schedule A

1. Section 1.36D added

1.1 Insert the following new section 1.36D:

1.36D. Specific Transitional Provisions for Publication of Electric Storage Resource Obligation Intervals for the 2021 Reserve Capacity Cycle

1.36D.1. Notwithstanding clause 4.11.3A, for the purposes of the 2021 Reserve Capacity Cycle, AEMO must publish the Electric Storage Resource Obligation Intervals on the WEM Website at least 20 Business Days before the date and time specified in clause 4.1.7, as set in the timetable published by AEMO in accordance with clause 1.36A.2 and as may be updated by AEMO in accordance with clause 1.36A.3.

2. Section 1.43 amended

2.1 The definition for 'Tranches 2 and 3 Amending Rules' in clause 1.43.1 is amended by inserting the words ', and any Amending Rules deemed by the Minister to form part of those Amending Rules in a subsequent instrument made by the Minister for the purposes of this section 1.43' immediately after the words 'Wholesale Electricity Market and Constrained Network Access Reform'.

3. Section 1.45 amended

3.1 The definition for 'RCM Facility Class' in clause 1.45.1 is deleted and replaced with the following:

RCM Facility Class: Means a Facility Class referred to in clause 1.45.3 that applies to:

- (a) an RCM Market Participant under clause 1.45.2(b); or
- (b) a facility or facility upgrade deemed to be assigned to the facility under clause 1.45.10(b).

3.2 Clause 1.45.4 is amended by deleting the word 'clause 1.45.10' and replacing it with the word 'clause 4.8A.7'.

3.3 Clause 1.45.5 is amended by:

- (a) inserting the words 'and assess' immediately after the word 'process'; and
- (b) deleting the word 'clause 1.45.10' and replacing it with the word 'clause 4.8A.7'.

3.4 Clause 1.45.6 is amended by deleting the word 'clause 2.29.1A' and replacing it with the word 'clause 1.45.6A'.

3.5 Insert the following new clause 1.45.6A:

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;
- (d) an Interruptible Load; and

(e) a Demand Side Programme.

3.6 Clause 1.45.8 is deleted and replaced with the following:

1.45.8. A person intending to participate in the 2021 Reserve Capacity Cycle and/or the 2022 Reserve Capacity Cycle in respect of a facility that is unregistered as at the New RCM Transition Date, must, except where clauses 4.8A.1 or 4.8A.3 applies to the facility (including a facility upgrade), apply to AEMO for an indicative Facility Class and an indicative Facility Technology Type in accordance with the WEM Procedure specified in clause 4.8A.7.

3.7 Clause 1.45.9 is deleted and replaced with the following:

1.45.9. AEMO must determine and assign an indicative Facility Class and one or more indicative Facility Technology Type to an unregistered facility pursuant to an application under clause 1.45.8 in accordance with the WEM Procedure specified in clause 4.8A.7.

3.8 Clause 1.45.10 is deleted and replaced with the following:

1.45.10. For the 2021 Reserve Capacity Cycle and the 2022 Reserve Capacity Cycle:

- (a) the indicative Facility Class assigned to a facility or facility upgrade by AEMO pursuant to clauses 1.45.9, 4.8A.1(a) or 4.8A.5(a) must be a Facility Class specified in clause 1.45.6A; and
- (b) the indicative Facility Class assigned to a facility or facility upgrade by AEMO pursuant to clauses 1.45.9, 4.8A.1(a) or 4.8A.5(a) is deemed to be the RCM Facility Class assigned to the facility or facility upgrade.

3.9 Insert the following new clause 1.45.11:

1.45.11. For the 2021 Reserve Capacity Cycle and the 2022 Reserve Capacity Cycle only, AEMO must assign one or more Facility Technology Type to a Registered Facility by the date and time specified in clause 4.1.7, in accordance with the WEM Procedure specified in clause 4.8A.7.

4. Section 1.49 added

4.1 Insert the following new section 1.49:

1.49. Specific Transitional Provisions – Mandatory Essential System Services Accreditation for Specific Facilities

1.49.1. A Market Participant, other than Synergy, that owns, operates or controls an LFAS Facility at any time from 1 October 2020 to 30 September 2021, must, unless the Market Participant no longer owns, operates or controls the relevant LFAS Facility, at least 12 months prior to the New WEM Commencement Day:

- (a) apply to AEMO for accreditation of its LFAS Facility to provide Regulation Raise and Regulation Lower; and

- (b) conduct any tests or provide any information that AEMO reasonably requires to accredit the LFAS Facility for Regulation Raise and Regulation Lower,

in accordance with the processes set out in the WEM Procedure specified in clause 2.34A.13.

1.49.2. A Market Participant or Ancillary Service Provider, other than Synergy, that is contracted to provide Spinning Reserve or Load Rejection Reserve under an Ancillary Service Contract at any time from 1 October 2020 to 30 September 2021, must, unless the Market Participant or Ancillary Service Provider no longer owns, operates or controls the Facility the subject of the Ancillary Service Contract, at least 12 months prior to the New WEM Commencement Day:

- (a) apply to AEMO for accreditation of its Facility to provide Contingency Reserve Raise or Contingency Reserve Lower, as applicable; and
- (b) conduct any tests or provide any information that AEMO reasonably requires to accredit the Facility for Contingency Reserve Raise or Contingency Reserve Lower, as applicable,

in accordance with the processes set out in the WEM Procedure specified in clause 2.34A.13.

1.49.3. At any time from 1 October 2020 and prior to the New WEM Commencement Day, a Market Participant, other than Synergy, may request AEMO to accredit its Facility for RoCoF Control Service in accordance with section 2.34A and the WEM Procedure specified in clause 2.34A.13.

Specific obligations for Synergy

1.49.4. Unless otherwise agreed with AEMO under clause 1.49.5, for each Synergy Facility that is capable of providing LFAS, Spinning Reserve, Load Rejection Reserve or RoCoF Control Service, Synergy must, at least 12 months prior to the New WEM Commencement Day:

- (a) apply to AEMO for accreditation of each such Facility to provide Regulation Raise, Regulation Lower, Contingency Reserve Raise, Contingency Reserve Lower or RoCoF Control Service, as applicable; and
- (b) conduct any tests or provide any information that AEMO reasonably requires to accredit each such Facility for Regulation Raise, Regulation Lower, Contingency Reserve Raise, Contingency Reserve Lower or RoCoF Control Service, as applicable,

in accordance with the processes outlined by AEMO in the WEM Procedure specified under clause 2.34A.13.

- 1.49.5. Synergy must consult with AEMO to determine which of its Facilities are to be considered as capable of providing Regulation Raise, Regulation Lower, Contingency Reserve Raise, Contingency Reserve Lower or RoCoF Control Service, and must seek accreditation, for the purposes of clause 1.49.4.

AEMO's obligations

- 1.49.6. AEMO must process and determine applications made under this section 1.49 for accreditation of a Facility for any Frequency Co-optimised Essential System Services in accordance with the WEM Procedure specified in clause 2.34A.13.
- 1.49.7. AEMO may prioritise applications for accreditation of a Facility for any Frequency Co-optimised Essential System Services made under this section 1.49 over any applications for accreditation made under section 2.34A.
- 1.49.8. Notwithstanding any other provisions in this section 1.49 or section 2.34A, AEMO may, but is not required to, process or determine any applications made under this section 1.49 or section 2.34A for accreditation of RoCoF Ride-Through Capability for a Load, before 12 months after New WEM Commencement Day.

Obligation to offer in Frequency Co-optimised Essential System Service markets

- 1.49.9. For each Dispatch Interval in the six month period following the New WEM Commencement Day, a Market Participant must, in respect of each of its Facilities accredited for a Frequency Co-optimised Essential System Service pursuant to an application made under this section 1.49:
- (a) submit offers in its Real-Time Market Submissions for each Frequency Co-optimised Essential System Service the Facility is accredited for; and
 - (b) ensure the quantity offered for each Frequency Co-optimised Essential System Service is not less than the maximum quantity the Facility is accredited for, for that Frequency Co-optimised Essential System Service, subject to any Outage affecting the Facility.

Application of this section 1.49

- 1.49.10. This section 1.49 applies for the initial accreditation by AEMO of the Facilities specified in clauses 1.49.1, 1.49.2, 1.49.3 and 1.49.4 for a Frequency Co-optimised Essential System Service. Without limiting section 2.34A, section 2.34A is to apply for:

- (a) the accreditation of all Facilities for a Frequency Co-optimised Essential System Service or RoCoF Ride-Through Capability other than the Facilities specified in clauses 1.49.1, 1.49.2, 1.49.3 and 1.49.4; and
- (b) any subsequent re-accreditation of a Facility initially accredited for a Frequency Co-optimised Essential System Service under this section 1.49.

5. Section 1.50 added

5.1 Insert the following new section 1.50:

1.50. Application of Section 1.43 to the WEM Procedures Specified in Clauses 2.34A.13, 2.35.4 and 2.36A.5

- 1.50.1. The WEM Procedures specified in clauses 2.34A.13, 2.35.4 and 2.36A.5 are each deemed to be a WEM Procedure forming part of the Amending Rules in the Tranches 2 and 3 Amending Rules (as defined in clause 1.43.1) to which section 1.43 applies.
- 1.50.2. Notwithstanding whether AEMO's obligation to develop the WEM Procedures specified in clauses 2.34A.13, 2.35.4 and 2.36A.5 have commenced, AEMO must, by 1 October 2021, develop those WEM Procedures in accordance with section 1.43. To avoid doubt, section 1.43 applies to the preparation and documentation of the WEM Procedures specified in clauses 2.34A.13, 2.35.4 and 2.36A.5, and will, from the commencement of clauses 2.34A.13, 2.35.4 and 2.36A.5, as applicable, that requires AEMO to develop or document the WEM Procedures, be deemed to be the relevant WEM Procedures required to be developed under clauses 2.34A.13, 2.35.4 and 2.36A.5, in accordance with clause 1.43.6(b).

6. Section 2.9 amended

6.1 Clause 2.9.4 is deleted and replaced with the following:

- 2.9.4. The Coordinator must maintain on the Coordinator's Website a Procedure Change Submission form.

7. Section 2.11 is amended

7.1 Clause 2.11.3 is amended by deleting the numerals '2.10.13(f)',

8. Section 2.29 amended

8.1 Clause 2.29.5B(bA) is deleted and replaced with the following:

- (bA) the single Transmission Node Identifier for the Load;

8.2 Clause 2.29.12 is deleted and replaced with the following:

- 2.29.12. A Market Participant for a Scheduled Facility or Semi-Scheduled Facility containing Separately Certified Components must have Facility Sub-Metering.

- 8.3 Clause 2.29.13 is amended by:
- (a) deleting the words 'Electric Storage Resource Metering' in each place where it occurs and replacing it with the words 'Facility Sub-Metering';
 - (b) deleting the word 'and' at the end of clause 2.29.13(a);
 - (c) deleting the full stop at the end of clause 2.29.13(b) and replacing it with the word '; and'; and
 - (d) inserting the following new clause 2.29.13(c):
 - (c) in accordance with clause 4.13.10B, the determination of whether a Facility is in Commercial Operation.

8.4 Clauses 2.29.14 and 2.29.15 are amended by deleting the words 'Electric Storage Resource Metering' in each place where it occurs and replacing it with the words 'Facility Sub-Metering'.

9. Section 2.34A amended

- 9.1 Insert the heading 'Accreditation for Frequency Co-optimised Essential System Services' immediately after the section 2.34A heading 'Essential System Service Accreditation' and before clause 2.34A.1.
- 9.2 Clause 2.34A.2 is amended by inserting the words 'in accordance with the WEM Procedure referred to in clause 2.34A.13' immediately after the words 'clause 2.34A.1'.
- 9.3 Clause 2.34A.4 is amended by inserting the words ', including any subsequent amendments required by AEMO following consultation with the relevant Market Participant,' immediately after the words 'application for accreditation of a Facility made pursuant to clause 2.34A.2'.
- 9.4 Insert the following new clause 2.34A.4C:
- 2.34A.4C. A Market Participant may withdraw an application for accreditation of a Facility made pursuant to clause 2.34A.2 at any time prior to the application being approved or rejected by AEMO under clause 2.34A.4.
- 9.5 Clause 2.34A.6 is amended by:
- (a) inserting the words ', together with notification of any required amendments, including revised or additional parameters or settings,' immediately after the words 'inform the Market Participant'; and
 - (b) inserting the words ', or in such other place as specified in the WEM Procedure referred to in clause 2.34A.13,' immediately after the words 'Standing Data for the Facility'.
- 9.6 Clause 2.34A.9 is amended by inserting the words 'or is likely to be' immediately after the words 'performance of the Facility is'.

- 9.7 Clause 2.34A.12 is amended by deleting the words 'update its Standing Data for the Facility to reflect the amended Frequency Co-optimised Essential System Service Accreditation Parameters' and replacing them with the words 'update its Standing Data for the Facility or information in such other place as specified in the WEM Procedure referred to in clause 2.34A.13, to reflect the amended Frequency Co-optimised Essential System Service Accreditation Parameters'.
- 9.8 Insert the following new clauses 2.34A.12A to 2.34A.12H (inclusive):

Determining RoCoF Ride-Through Capability

- 2.34A.12A. A Market Participant may apply to AEMO for accreditation of the RoCoF Ride-Through Capability of each of its Facilities in accordance with the WEM Procedure specified in clause 2.34A.13.
- 2.34A.12B. A Network Operator must apply to AEMO for accreditation of the RoCoF Ride-Through Capability of each of its transmission systems or distribution systems in accordance with the WEM Procedure specified in clause 2.34A.13.
- 2.34A.12C. AEMO must determine, or re-determine, as applicable, in accordance with the WEM Procedure specified in clause 2.34A.13, the RoCoF Ride-Through Capability for a Facility pursuant to an application made under clauses 2.34A.12A, 2.34A.12B, 2.34A.12E or in accordance with clause 2.34A.12F.
- 2.34A.12D. As part of determining, or re-determining, as applicable, the RoCoF Ride-Through Capability for a Facility, transmission system or distribution system pursuant to an application made under clauses 2.34A.12A, 2.34A.12B or 2.34A.12E or in accordance with clause 2.34A.12F, AEMO may request the relevant Market Participant or Network Operator to provide further information that may be reasonably required, including engineering studies or reports, to demonstrate the RoCoF Ride-Through Capability of the Facility, and the relevant Market Participant or Network Operator must comply with the request within a reasonable timeframe as agreed with AEMO.
- 2.34A.12E. Where, in the Market Participant's or Network Operator's reasonable opinion, the RoCoF Ride-Through Capability of its Facility has varied, is varying, or is likely to vary, significantly from the value the Facility was accredited for under clause 2.34A.12C, the Market Participant or Network Operator must apply to AEMO to re-determine the RoCoF Ride-Through Capability accredited to the Facility, transmission system or distribution system, as applicable.

2.34A.12F. Where AEMO becomes aware that the RoCoF Ride-Through Capability of a Facility has varied, is varying, or is likely to vary, significantly from the value the Facility was accredited for under clause 2.34A.12C, AEMO must:

- (a) notify the relevant Market Participant or Network Operator; and
- (b) re-determine the RoCoF Ride-Through Capability accredited to the relevant Facility in accordance with clause 2.34A.12C.

2.34A.12G. Where AEMO determines the RoCoF Ride-Through Capability accredited to a Facility pursuant to clause 2.34A.12C, or as a result of a re-determination pursuant to clauses 2.34A.12E or 2.34A.12F, the relevant Market Participant or Network Operator must, within five Business Days of receiving notification of the re-accreditation from AEMO, update its Standing Data for its Facility or information in such other place as specified in the WEM Procedure referred to in clause 2.34A.13, to reflect the amended RoCoF Ride-Through Capability for the Facility.

2.34A.12H. Notwithstanding clauses 2.34A.12A, 2.34A.12B, 2.34A.12E or 2.34A.12F, AEMO may, in its sole discretion, deem the RoCoF Ride-Through Capability of any Facility to be equal to the RoCoF Safe Limit.

9.9 Insert the following new clause 2.34A.14:

Publication

2.34A.14. AEMO must publish, and keep up to date, the following information on the WEM Website for each Facility accredited to provide a Frequency Co-optimised Essential System Service:

- (a) the identity of the Facility;
- (b) the maximum quantity of each Frequency Co-optimised Essential System Service intended to be provided by the Facility and how that value would vary under different Facility operating configurations;
- (c) where applicable, the Facility Speed Factor for the Facility; and
- (d) where applicable, the RoCoF Ride-Through Capability for the Facility.

10. Section 2.36A amended

10.1 Clause 2.36A.1(b) is amended by inserting the word ' , repair' immediately after the word 'modify'.

11. Section 3.1A added

11.1 Insert the following new section 3.1A:

3.1A. Operating Protocol

- 3.1A.1. If AEMO reasonably believes it is necessary to support the management of Power System Security and Power System Reliability, AEMO and a Network Operator must jointly develop and maintain an Operating Protocol in accordance with this section 3.1A.
- 3.1A.2. An Operating Protocol must describe how AEMO and the relevant Network Operator will coordinate their performance of relevant Power System Security and Power System Reliability related responsibilities under these WEM Rules. An Operating Protocol must include, but is not limited to:
- (a) governance arrangements for the Operating Protocol, including the change management process for the Operating Protocol;
 - (b) descriptions of relevant Operating Zones in the SWIS and the types of information that must be shared by AEMO and the Network Operator concerning the relevant Operating Zones;
 - (c) general operational communication processes to be followed by AEMO and the Network Operator, including communication processes for applicable SWIS Operating States and for issuing and responding to directions under these WEM Rules;
 - (d) processes for the management of Islands within the SWIS;
 - (e) processes and responsibilities for the management of emergencies, including the delegation of functions by AEMO to the Network Operator in an emergency as contemplated by clause 2.1A.3 of these WEM Rules;
 - (f) general principles and processes that AEMO and the Network Operator may follow in relation to voltage control and management;
 - (g) principles and processes for load shedding and restoration;
 - (h) general principles and processes for security management and coordination;
 - (i) processes for the sharing of information between AEMO and the Network Operator to support operational planning processes and the maintenance of Power System Security and Power System Reliability;
 - (j) processes to support Network outage reviews;
 - (k) any reporting requirements to support the processes described in the Operating Protocol; and

- (l) any other matter AEMO and the Network Operator determine to be necessary for the maintenance of Power System Security and Power System Reliability.
- 3.1A.3. AEMO and a Network Operator must use reasonable endeavours to operate and provide information in accordance with the applicable Operating Protocol.
- 3.1A.4. In accordance with the communication processes specified in an applicable Operating Protocol, a Network Operator must notify and advise AEMO where it identifies threats to Power System Security or Power System Reliability outside of the Operating Zones specified in the Operating Protocol.
- 3.1A.5. Where an Operating Protocol has been jointly developed in accordance with clause 3.1A.1, AEMO must publish an agreed version of the Operating Protocol on the WEM Website as soon as reasonably practicable.
- 3.1A.6. AEMO must publish the first agreed version of the Operating Protocol applicable to Western Power's Network on the WEM Website by no later than 1 October 2022.
- 3.1A.7. In consultation with the relevant Network Operator, AEMO may redact confidential or sensitive information from an Operating Protocol published on the WEM Website.
- 3.1A.8. If AEMO and Western Power have not agreed a version of the relevant Operating Protocol by 1 October 2022, then the document titled 'Operating Protocol – AEMO and Western Power (Non-Binding)' bearing the document reference 'SO_WA_OP-6470' is the Operating Protocol for the purposes of clause 3.1A.1 and, subject to clause 3.1A.7, must be published by AEMO on the WEM Website.

Voltage Control

- 3.1A.9. AEMO, in consultation with a Network Operator, may determine a Secure Operational Voltage Envelope for each Operating Zone.
- 3.1A.10. When determining a Secure Operational Voltage Envelope under clause 3.1A.9, AEMO must consider:
 - (a) any voltage standards applicable to the Network Operator's Network under the relevant Technical Rules;
 - (b) any specific voltage requirements identified by a Network Operator; and
 - (c) the operation of Facilities and other equipment within their defined capability limits.

- 3.1A.11. To the extent reasonably practicable, a Network Operator must operate its Network within the Secure Operational Voltage Envelopes specified by AEMO. If a Network Operator cannot operate within the specified Secure Operational Voltage Envelope, it must notify AEMO and provide relevant information and documentation in accordance with the communication processes contemplated by the applicable Operating Protocol.
- 3.1A.12. AEMO must notify the relevant Network Operator of the Secure Operational Voltage Envelope for each Operating Zone (as determined by AEMO under clause 3.1A.9) in accordance with the processes described in the Operating Protocol.

12. Section 3.8 amended

- 12.1 Clause 3.8.5A is amended by deleting the words 'Market Rules' and replacing them with the words 'WEM Rules'.

13. Section 4.2 amended

- 13.1 Clause 4.2.1 is amended by:
- (a) deleting the words 'existing and new Market Participants' and replacing them with the words 'a person'; and
 - (b) inserting the words 'or other person, as applicable,' immediately after the words 'To avoid doubt, a Market Participant'.
- 13.2 Clause 4.2.7(cA) is deleted and replaced with the following:
- (cA) if the Facility is an Energy Producing System, the additional Reserve Capacity potentially available from each technology;

14. Section 4.8A amended

- 14.1 Clause 4.8A.1 is amended by deleting the words 'Facility or Facility upgrade' immediately after the words 'Expression of Interest in relation to a new' and replacing them with the words 'facility or facility upgrade'.
- 14.2 Clause 4.8A.1(a) is amended by:
- (a) deleting the words 'an indicative Facility Technology Type' and replacing them with the words 'one or more indicative Facility Technology Type'; and
 - (b) deleting the words 'Facility upgrade' and replacing them with the words 'facility upgrade'.
- 14.3 Clause 4.8A.1(b) is amended by:
- (a) deleting the word 'Type' and replacing it with the word 'Types'; and
 - (b) deleting the words 'Facility upgrade' and replacing them with the words 'facility upgrade'.

- 14.4 Clause 4.8A.3 is amended by:
- (a) deleting the words 'Market Participant' and replacing them with the word 'person';
 - (b) deleting the words 'Facility Technology Class' and replacing them with the words 'Facility Technology Type';and
 - (c) deleting the words 'Facility upgrade' in each place where they occur and replacing them with the words 'facility upgrade'.
- 14.5 Clause 4.8A.5(a) is amended by:
- (a) deleting the words 'an indicative Facility Technology Type' and replacing them with the words 'one or more indicative Facility Technology Type'; and
 - (b) deleting the words 'new Facility or Facility upgrade' and replacing them with the words 'new facility or facility upgrade'.
- 14.6 Clause 4.8A.5(b) is amended by:
- (a) deleting the word 'Type' and replacing it with the word 'Types'; and
 - (b) deleting the words 'new Facility or Facility upgrade' and replacing them with the words 'new facility or facility upgrade'.
- 14.7 Clause 4.8A.6 is amended by:
- (a) deleting the word 'Type' and replacing it with the word 'Types'; and
 - (b) deleting the words 'new Facility or Facility upgrade' and replacing them with the words 'new facility or facility upgrade'.
- 14.8 Clause 4.8A.7 is deleted.

15. Section 4.10 amended

- 15.1 Clause 4.10.1(bA)(iii) is deleted and replaced with the following:
- iii. where the Facility is not a Constrained Access Facility, evidence of the level of unconstrained network access associated with the Arrangement for Access or Access Proposal referred to in clause 4.10.1(bA)(i);
- 15.2 Insert the following new clause 4.10.1(l):
- (l) evidence of the extent to which the Facility will be able to receive, confirm and implement Dispatch Instructions from AEMO.

16. Section 4.11 amended

- 16.1 Clause 4.11.1(g) is deleted and replaced with the following:
- (g) in respect of a Facility that will be subject to a Network Control Service Contract, AEMO must not assign Certified Reserve Capacity in excess of:

- i. where that Facility is a Constrained Access Facility, the Constrained Access Entitlement as at the date and time specified in clause 4.1.12(b); or
- ii. otherwise, the capacity that AEMO believes that Facility can usefully contribute given its location and any network constraints that are likely to occur;

17. Section 4.13 amended

17.1 Clause 4.13.10B(a) is amended by:

- (a) deleting the word 'and' at the end of clause 4.13.10B(a)(i); and
- (b) inserting the following new clause 4.13.10B(a)(iii):
 - iii. in accordance with clause 2.29.12, whether the Facility has installed Facility Sub-Metering; and

18. Section 6.20 amended

18.1 Clause 6.20.7(a)(i) is amended by deleting the word 'AEMO's' and replacing it with the words 'the Economic Regulation Authority's'.

19. Section 9.15 amended

19.1 Clause 9.15.1 is amended by inserting the words ', the Coordinator' immediately after the words 'u indicates a member of the set comprising AEMO'.

20. Section 9.24 amended

20.1 Clause 9.24.3A(a)(i) is deleted and replaced with the following:

- i. payment of Service Fee Settlement Amounts to AEMO, the Economic Regulation Authority and the Coordinator (including as contemplated by clause 9.22.10);

21. Chapter 11 Glossary amended

21.1 Delete the definition for 'Electric Storage Resource Metering'.

21.2 Insert the following new definition for 'Facility Sub-Metering':

Facility Sub-Metering: Metering arrangements sufficient to calculate the contribution of each Separately Certified Component and associated Parasitic Loads to the Injection or Withdrawal of energy for a Facility, which may include use of Meter Data Submissions where each Separately Certified Component is not individually metered.

21.3 Insert the following new definition for 'Operating Protocol':

Operating Protocol: A protocol developed between AEMO and a Network Operator in accordance with section 3.1A.

21.4 Insert the following new definition for 'Operating Zone':

Operating Zone: A part or parts of the SWIS able to be practically monitored and incorporating elements that are likely to impact Power System Security or Power System Reliability.

21.5 Insert the following new definition for 'Secure Operational Voltage Envelope':

Secure Operational Voltage Envelope: Means the voltage limits for the secure operation of an Operating Zone as determined by AEMO under clause 3.1A.9.

22. Appendix 9 amended

22.1 The contents of Appendix 9 are deleted and replaced with the following:

This Appendix presents the methodology for determining the Relevant Levels for Facilities that have applied for certification of Reserve Capacity under clause 4.11.2(b) for a given Reserve Capacity Cycle ("Candidate Facility").

For the purposes of the Relevant Level determination in this Appendix 9:

- the full operation date of a Candidate Facility for the Reserve Capacity Cycle ("Full Operation Date") is:
 - the date provided under clause 4.10.1(c)(iii)(7) or revised in accordance with clause 4.27.11A, where at the time the application for certification of Reserve Capacity is made the Facility, or part of the Facility (as applicable) is yet to enter service; or
 - the date most recently provided for a Reserve Capacity Cycle under clause 4.10.1(k) otherwise; and
- a Candidate Facility will be considered to be:
 - a new candidate Facility, if the five year period identified in step 1(a) of this Appendix commenced before 8:00 AM on the Full Operation Date for the Facility ("New Candidate Facility"); or
 - an existing Candidate Facility ("Existing Candidate Facility"), otherwise.

AEMO must perform the following steps to determine the Relevant Level for each Candidate Facility:

Determining Existing Facility Load for Scheduled Generation

Step 1: Identify:

- (a) the five year period ending at 8:00 AM on 1 April of Capacity Year 1 of the relevant Reserve Capacity Cycle;
- (b) any 12 month period, from 1 April to 31 March, occurring during the five year period identified in step 1(a), where the 12 Trading Intervals with the

- highest Existing Facility Load for Scheduled Generation in that 12 month period have not previously been determined under this Appendix 9; and
- (c) any 12 month period, from 1 April to 31 March, occurring during the five year period identified in step 1(a), where the 12 Trading Intervals with the highest Existing Facility Load for Scheduled Generation in that 12 month period have previously been determined under this Appendix 9.
- Step 2: Determine the quantity of electricity (in MWh) sent out by each Candidate Facility using Meter Data Submissions for each of the Trading Intervals in the period identified in step 1(b).
- Step 3: For each Candidate Facility, identify any Trading Intervals in the period identified in step 1(b) where:
- (a) the Facility, other than a Facility in the Balancing Portfolio, was directed to restrict its output under a Dispatch Instruction as provided in a schedule under clause 7.13.1(c); or
- (b) the Facility, if in the Balancing Portfolio, was instructed by AEMO to deviate from its Dispatch Plan or change its commitment or output as provided in a schedule under clause 7.13.1C(d); or
- (c) was affected by a Consequential Outage as recorded by AEMO under clause 7.13.1A; or
- (d) the Facility was directed to restrict its output under an Operating Instruction issued in accordance with a Network Control Service Contract, as provided in a schedule under clause 7.13.1(cC).
- Step 4: For each Candidate Facility and Trading Interval identified in step 3(a):
- (a) identify the actual quantity as determined in step 2 if:
- i. AEMO has made a revised estimate of the maximum quantity in accordance with clause 7.7.5A(c) and the WEM Procedure specified in clause 7.7.5A; and
- ii. the revised estimate of the maximum quantity is lower than the actual quantity as determined in step 2;
- (b) identify the actual quantity as determined in step 2 if:
- i. step 4(a) does not apply; and
- ii. the estimated maximum quantity determined by AEMO under clause 7.13.1(eF) is lower than the actual quantity (as specified in

a Meter Data Submission covering the Facility and the Trading Interval); and

- (c) if steps 4(a) and (b) do not apply:
 - i. identify the revised estimate of the maximum quantity determined by AEMO in accordance with the WEM Procedure specified in clause 7.7.5A; or
 - ii. if there is no revised estimate, identify the estimate determined by AEMO under clause 7.13.1(eF).

Step 5: For each Candidate Facility and Trading Interval identified in step 3(b) use:

- (a) the estimate recorded by AEMO under clause 7.13.1C(e); and
- (b) the quantity determined for the Facility and Trading Interval in step 2, to estimate the quantity of energy (in MWh) that would have been sent out by the Facility had it not complied with AEMO's instruction to change its commitment or output during the Trading Interval.

Step 6: For each Candidate Facility and Trading Interval identified in step 3(c) use:

- (a) the schedule of Consequential Outages determined by AEMO under clause 7.13.1A;
- (b) the quantity determined for the Facility and Trading Interval in step 2; and
- (c) the information recorded by AEMO under clause 7.13.1C(a), to estimate the quantity of energy (in MWh) that would have been sent out by the Facility had it not been affected by the notified Consequential Outage during the Trading Interval.

Step 6A: For each Candidate Facility and Trading Interval identified in step 3(d) use:

- (a) the schedule of Operating Instructions determined by AEMO under clause 7.13.1(cC);
- (b) the quantity determined for the Facility and Trading Interval in step 2; and
- (c) the information recorded by AEMO under clause 7.13.1C(a), to estimate the quantity of energy (in MWh) that would have been sent out by the Facility had it not been subject to an Operating Instruction during the Trading Interval.

Step 7: Determine for each Trading Interval in each 12 month period identified in step 1(b) the Existing Facility Load for Scheduled Generation (in MWh) as:

$(\text{Total_Generation} + \text{DSP_Reduction} + \text{Interruptible_Reduction} + \text{Involuntary_Reduction}) - \text{CF_Generation}$

where

Total_Generation is the total sent out generation of all Facilities, as determined from Meter Data Submissions;

DSP_Reduction is the total quantity of Deemed DSM Dispatch for all Demand Side Programmes for that Trading Interval;

Interruptible_Reduction is the total quantity by which all Interruptible Loads reduced their consumption in accordance with the terms of an Ancillary Service Contract, as recorded by AEMO under clause 7.13.1C(c);

Involuntary_Reduction is the total quantity of energy not served due to involuntary load shedding (manual and automatic), as recorded by AEMO under clause 7.13.1C(b); and

CF_Generation is the total sent out generation of all Candidate Facilities, as determined in step 2 or estimated in steps 4, 5, 6 or 6A as applicable.

Step 8: Determine for each 12 month period identified in step 1(b) the 12 Trading Intervals, occurring on separate Trading Days, with the highest Existing Facility Load for Scheduled Generation.

Step 9: Identify, for each 12 month period identified in step 1(c), the following:

- (a) the Existing Facility Load for Scheduled Generation previously determined under this Appendix 9 for each Trading Interval in the 12 month period;
- (b) subject to step 9A, the sent out generation (in MWh) for each Candidate Facility and for each Trading Interval in that 12 month period, where that sent out generation was used to determine the CF_Generation (which is one of the variables used to determine the Existing Facility Load for Scheduled Generation in step 7) for that Trading Interval; and
- (c) the 12 Trading Intervals occurring on separate Trading Days that were previously determined to have the highest Existing Facility Load for Scheduled Generation in the 12 month period.

Step 9A: For the purposes of step 9(b), if:

- (a) AEMO has determined a revised estimate of the maximum quantity in accordance with the WEM Procedure specified in clause 7.7.5A;
- (b) the revised estimate relates to a Candidate Facility and a Trading Interval in a 12 month period identified in step 1(c); and

- (c) AEMO determined the sent out generation for that Candidate Facility and for that Trading Interval in accordance with step 4 before it revised the estimate,

then AEMO must redetermine the sent out generation for that Candidate Facility and that Trading Interval in accordance with step 4.

Determining New Facility Load for Scheduled Generation

Step 10: For each New Candidate Facility determine, for each Trading Interval in the period identified in step 1(a) that falls before 8:00 AM on the Full Operation Date for the Facility, an estimate of the quantity of energy (in MWh) that would have been sent out by the Facility in the Trading Interval, if it had been in operation with the configuration proposed under clause 4.10.1(dA) in the relevant application for certification of Reserve Capacity. The estimates must reflect the estimates in the expert report provided for the Facility under clause 4.10.3, unless AEMO reasonably considers the estimates in the expert report to be inaccurate.

Step11: For each New Candidate Facility determine, for each Trading Interval in the period identified in step 1(a), the New Facility Load for Scheduled Generation (in MWh) as:

- (a) if the Trading Interval falls before 8:00 AM on the Full Operation Date for the Facility:

$$\text{EFLSG} + \text{Actual_CF_Generation} - \text{Estimated_CF_Generation}$$

where

EFLSG is the Existing Facility Load for Scheduled Generation for the Trading Interval, determined in step 7 or identified in step 9(a) as applicable;

Actual_CF_Generation is the sent out generation of the New Candidate Facility for the Trading Interval, as identified in step 9(b), determined in step 2 or estimated in steps 4, 5,6 or 6A as applicable; and

Estimated_CF_Generation is the quantity determined for the New Candidate Facility and the Trading Interval in step 10;

or

- (b) the Existing Facility Load for Scheduled Generation for the Trading Interval, otherwise.

Step 12: For each New Candidate Facility determine, for each 12 month period identified in step 1(a), the 12 Trading Intervals, occurring on separate Trading Days, with the highest New Facility Load for Scheduled Generation.

Determining the Facility Average Performance Level

Step 13: For each Existing Candidate Facility, determine the 60 quantities comprising:

- (a) the MWh quantities determined in step 2 or estimated in steps 4, 5, 6 or 6A as applicable for each of the Trading Intervals determined in step 8, multiplied by 2 to convert to units of MW; and
- (b) the MWh quantities determined in step 9(b) for each of the Trading Intervals identified in step 9(c), multiplied by 2 to convert to units of MW.

Step 14: For each New Candidate Facility, determine the 60 quantities comprising:

- (a) the MWh quantities identified in step 9(b), determined in step 2 or estimated in steps 4, 5, 6 or 6A as applicable for each of the Trading Intervals identified in step 12 that fall after 8:00 AM on the Full Operation Date for the Facility, multiplied by 2 to convert to units of MW; and
- (b) the MWh quantities determined in step 10 for each of the Trading Intervals identified in step 12 that fall before 8:00 AM on the Full Operation Date of the Facility, multiplied by 2 to convert to units of MW.

Step 15: Determine the average performance level (in MW) for each Candidate Facility f ("Facility Average Performance Level") as the mean of the 60 quantities determined for Facility f in step 13 or step 14 as applicable.

Determine the Facility Adjustment Factor

Step 16: Determine the variance (in MW) for each Candidate Facility f ("Facility Variance") as the variance of the MW quantities determined for Facility f in step 13 or step 14 as applicable.

Step 17: Determine the facility adjustment factor (in MW) for each Candidate Facility f ("Facility Adjustment Factor") in accordance with the following formula:

$$\text{Facility Adjustment Factor} = \min(G \times \text{Facility Variance (f)}, \text{Facility Average Performance Level (f)} / 3 + K \times \text{Facility Variance (f)})$$

Where

$$G = K + U / \text{Facility Average Performance Level (f)}$$

K is determined in accordance with the following table:

Reserve Capacity Cycle	Capacity Year	K value
2012	2014/15	0.001
2013	2015/16	0.002
2014	2016/17	0.003
2015 onwards	From 2017/18 onwards	To be determined by the Economic Regulation Authority in accordance with clause 4.11.3C.

U is determined in accordance with the following table:

Reserve Capacity Cycle	Capacity Year	U
2012	2014/15	0.211
2013	2015/16	0.422
2014	2016/17	0.635
2015 onwards	From 2017/18 onwards	To be determined by the Economic Regulation Authority in accordance with clause 4.11.3C.

Determining the Relevant Level for a Facility

Step 18: Determine the Relevant Level for each Candidate Facility f (in MW) in accordance with the following formula:

$$\text{Relevant Level (f)} = \max(0, \text{Facility Average Performance Level (f)} - \text{Facility Adjustment Factor (f)})$$

Publication of information

Step 19: Publish on the WEM Website by 1 June of Year 1 of the relevant Reserve Capacity Cycle on a provisional basis:

- (a) a forecast of the Trading Intervals that may be identified in step 8; and
- (b) a forecast of the Existing Facility Load for Scheduled Generation quantities that may be determined in step 7.

Step 20: Publish on the WEM Website within three Business Days after the date specified in clause 4.1.11 (as modified or extended) for the relevant Reserve Capacity Cycle:

- (a) the Trading Intervals identified in step 8; and
- (b) the Existing Facility Load for Scheduled Generation quantities determined in step 7.

Schedule B

1. Section 4.8A amended

1.1 Insert the following new clause 4.8A.7:

4.8A.7. AEMO must document the following in a WEM Procedure:

- (a) the processes to be followed by AEMO in determining and assigning an indicative Facility Class and an indicative Facility Technology Type to a new facility or facility upgrade under this section 4.8A or an unregistered facility under clause 1.45.9;
- (b) the processes to be followed by AEMO in determining and assigning an RCM Facility Class (as defined in clause 1.45.1) and Facility Technology Type to a Registered Facility under section 1.45;
- (c) the information required to be provided in support of an application under clause 4.8A.3;
- (d) the processes to be followed by an applicant in relation to making an application under clauses 1.45.4, 1.45.8 or 4.8A.3; and
- (e) any other matters AEMO considers relevant.

Schedule C

1. Section 2.34A amended

1.1 Insert the following new clauses 2.34A.12I and 2.34A.12J:

Cost-recovery for RoCoF Control Service based on a Facility's RoCoF Ride-Through Capability

2.34A.12I. AEMO must determine a RoCoF Ride-Through Cost Recovery Limit in accordance with the WEM Procedure specified in clause 2.34A.13. In determining the RoCoF Ride-Through Cost Recovery Limit, AEMO must:

- (a) not set the value higher than the RoCoF Upper Limit;
- (b) set the limit to a precision of 0.1 Hz over 500 milliseconds; and
- (c) subject to clause 2.34A.12I(a), set the limit above the RoCoF Safe Limit by at least 0.25 Hz over 500 milliseconds.

2.34A.12J. Where the RoCoF Ride-Through Capability accredited to a Facility under clause 2.34A.12C, or deemed to be accredited to a Facility under clause 2.34A.12H, is equal to or lower than the RoCoF Ride-Through Cost Recovery Limit, the Facility is deemed to be a RoCoF Causer for the purposes of Appendix 2B.

1.2 Insert the following new clause 2.34A.13:

WEM Procedure

2.34A.13. AEMO must document in a WEM Procedure the processes to be followed by AEMO, Market Participants and Network Operators in respect of the accreditation of a Facility under this section 2.34A or section 1.49. The WEM Procedure must include:

- (a) in respect to the provision of a Frequency Co-Optimised Essential System Service:
 - i. the format of information which Market Participants must submit;
 - ii. the performance parameters and requirements which must be satisfied in order for a Facility to be accredited to provide a particular Frequency Co-optimised Essential System Service (for example, minimum quantity, maximum response time, control facilities, measurement facilities);
 - iii. the manner and form of control system or communication arrangements required for the provision, and monitoring, of each Frequency Co-optimised Essential System Service;
 - iv. the Maximum Contingency Reserve Block Size and the method used to determine the Maximum Contingency Reserve Block Size;
 - v. the format and nature of data to be provided as evidence of performance after each Contingency Event;
 - vi. how AEMO will monitor and verify Facility performance against the Frequency Co-optimised Essential System Service Accreditation Parameters for the Facility including modelling and testing requirements;
 - vii. how AEMO will determine a Facility Speed Factor for the Facility (so that it is possible for a Market Participant to estimate the Facility Speed Factor likely to be applied to its Facility);
 - viii. the process for a Market Participant to seek to amend the Frequency Co-optimised Essential System Service Accreditation Parameters for a Facility;
 - ix. the process AEMO will follow in considering whether to amend the Frequency Co-optimised Essential System Service Accreditation Parameters for a Facility, including examples of changes to Facility performance that would lead to an adjustment of the Frequency Co-optimised Essential System Service Accreditation Parameters;

- x. the processes to be followed by AEMO and Market Participants for any tests and re-tests of a Facility for the accreditation of a Facility to provide a Frequency Co-optimised Essential System Service;
 - xi. timeframes for notification requirements and provision of information including updating any Standing Data or information in such other place as determined by AEMO and specified in the WEM Procedure; and
 - xii. any other processes or requirements relating to the accreditation of a Facility to provide a Frequency Co-optimised Essential System Service that AEMO considers are reasonably required to enable it to perform its functions under this section 2.34A;
- (b) in respect to RoCoF Ride-Through Capability:
- i. the type and form of supporting information which AEMO may request from Market Participants and Network Operators;
 - ii. the processes AEMO must follow and the matters AEMO must take into account in determining whether to deem a Facility's RoCoF Ride-Through Capability as being equal to the RoCoF Safe Limit under clause 2.34A.12H;
 - iii. the processes to be followed by Market Participants and Network Operators that wish to apply for the accreditation of RoCoF Ride-Through Capability for its Facility to be determined or re-determined by AEMO;
 - iv. the processes to be followed by AEMO to determine or re-determine the accredited RoCoF Ride-Through Capability for a Facility;
 - v. the processes to be followed by AEMO in considering whether to re-determine the RoCoF Ride-Through Capability accredited to a Facility, which may include examples of changes to a Facility's performance that would lead to an adjustment of the RoCoF Ride-Through Capability accredited to the Facility;
 - vi. the processes to be followed by AEMO, Market Participants and Network Operators for any tests and re-tests of a Facility for the accreditation, or re-accreditation, of RoCoF Ride-Through Capability for a Facility; and
 - vii. the timeframes, which must be reasonable, for notification requirements and provision of information, including updating any

Standing Data or information in such other place as determined by AEMO and specified in the WEM Procedure; and

- (c) the processes to be followed by AEMO, including a consultation process with Market Participants and Network Operators, in determining or re-determining the RoCoF Ride-Through Cost Recovery Limit.

2. Section 7.13A added

- 2.1 Insert the following new section 7.13A:

7.13A. Determination and Publication of RoCoF Upper Limit

7.13A.1. AEMO must determine and publish on the WEM Website the RoCoF Upper Limit at least annually.

- 2.2 Insert the new heading '**Determination and Publication of RoCoF Upper Limit**' immediately before new section 7.13A.

3. Chapter 11 Glossary amended

- 3.1 Insert the following new definition for 'RoCoF Ride-Through Cost Recovery Limit':

RoCoF Ride-Through Cost Recovery Limit: Means the limit set by AEMO under clause 2.34A.12I that is used to determine the set of RoCoF Causers that must pay for the RoCoF Control Service under Appendix 2B.

- 3.2 Insert the following new definition for 'RoCoF Upper Limit':

RoCoF Upper Limit: Means the maximum RoCoF expected on the SWIS if Contingency Reserve was solely used to maintain SWIS frequency after a Contingency Event.

Schedule D

1. Section 4.20 amended

- 1.1 Clause 4.20.5B is deleted and replaced with the following:

4.20.5B. The quantity of Capacity Credits assigned to each Market Participant's Facilities is determined as follows:

- (a) if the Facility is subject to a Network Control Service Contract – the same quantity as the quantity of Certified Reserve Capacity assigned to that Facility under clause 4.9.9(a); and
- (b) if the Market Participant specified a non-zero amount for the Facility under clause 4.14.1(c) then the quantity of Capacity Credits is the quantity specified by AEMO for the Facility under clause 4.14.9.

- 1.2 Clause 4.20.5C is amended by deleting the contents of it and replacing them with '[Blank]'.

2. Appendix 3 amended

2.1 The Appendix 3 heading 'Appendix 3: Reserve Capacity Auction and Trade Methodology' is amended by deleting the words 'Reserve Capacity Auction and'.

2.2 Appendix 3 is amended by deleting the first paragraph appearing immediately after the heading 'Appendix 3: Reserve Capacity Auction and Trade Methodology' and replacing it with the following:

This appendix describes a single algorithm. Part A is used to prevent AEMO accepting bilateral trades (as defined in clause 4.14.2) that have insufficient availability to usefully address the Reserve Capacity Requirement.

2.3 Appendix 3 is amended by deleting the contents of 'Part B. Reserve Capacity Auction' including the heading 'Part B. Reserve Capacity Auction'.

Schedule E

1. Section 4.10 amended

1.1 Clause 4.10.1(bA)(iii) is deleted and replaced with the following:

iii. except where the Facility is a Demand Side Programme, the Declared Sent Out Capacity for the Facility at the relevant connection point;

1.2 Clause 4.10.1(l) is amended by deleting the full stop at the end of the clause and replacing it with '; and'.

2. Section 4.11 amended

2.1 Clause 4.11.1(g) is amended by deleting the contents of it and replacing them with '[Blank]'.

3. Section 4.25 amended

3.1 Clause 4.25.2(e)(i)(1) is amended by deleting the words 'Electric Storage Resource Metering' and replacing them with the words 'Facility Sub-Metering'.

3.2 Clause 4.25.2(e)(i)(2) is amended by deleting the words 'meter data recorded by Electric Storage Resource Metering' after the words 'determined from' and replacing them with the words 'Meter Data Submissions and Facility Sub-Metering'.

3.3 Clauses 4.25.2(f)(i), 4.25.4(e), 4.25.6(d)(i) and 4.25.6(e) are amended by deleting the words 'meter data recorded by Electric Storage Resource Metering' after the words 'determined from' and replacing them with the words 'Meter Data Submissions and Facility Sub-Metering'.

3.4 Clauses 4.25.2A, 4.25.2C and 4.25.4(d) are amended by deleting the words 'Electric Storage Resource Metering' in each place where they occur and replacing them with the words 'Facility Sub-Metering'.

3.5 Clause 4.25.2C(b) is amended by inserting the word 'Resource' immediately after the words 'containing an Electric Storage'.

- 3.6 Clause 4.25.4(d)(i) is amended by deleting the words 'as determined from meter data recorded by Electric Storage Resource Metering, provided to AEMO under clause 4.25.2C'.
- 3.7 Clause 4.25.6(d)(ii) is amended by deleting the words 'Electric Storage Resource Metering' after the words 'Meter Data Submissions and' and replacing them with the words 'Facility Sub-Metering provided to AEMO under clause 4.25.2C'.
- 4. Section 7.5 amended**
- 4.1 Clause 7.5.14 is deleted and replaced with the following:
- 7.5.14. AEMO must determine and publish on the WEM Website the RoCoF Upper Limit at least annually.
- 5. Section 7.13A deleted**
- 5.1 Section 7.13A is deleted.
- 6. Section 9.18 amended**
- 6.1 Insert the following new clause 9.18.12:
- 9.18.12. Notwithstanding this section 9.18, AEMO is not required to render an Invoice to a Network Operator where the net amount to be paid to or by AEMO is zero.
- 7. Section 9.20 amended**
- 7.1 Clause 9.20.4(a)(i) is deleted and replaced with the following:
- i. payment of Service Fee Settlement Amounts to AEMO, the Economic Regulation Authority and the Coordinator (including as contemplated by clause 9.18.10);
- 8. Chapter 11 Glossary amended**
- 8.1 Insert the following new definition for 'RoCoF Causer':
- RoCoF Causer:** Means the set of Rule Participants identified in accordance with Appendix 2B that must pay for the RoCoF Control Service.
- 9. Appendix 2B amended**
- 9.1 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 Facilities registered to Network Operators which are RoCoF Causers under clause 2.34A.12J in Trading Interval t ;
- (b) Injection Causer(t): the set of Registered Facilities which inject energy into the SWIS, 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 Registered Facilities which comprise only Scheduled Loads;
and
- ii. all Non-Dispatchable Loads associated with or served by a Market Participant (including Synergy's Notional Wholesale Meter where Synergy is the Market Participant),

which consume energy from the SWIS, which have non-zero Metered Schedules in Trading Interval t and which are RoCoF Causers under clause 2.34A.12J in Trading Interval t .