

## Electricity Industry (Wholesale Electricity Market) Regulations 2004

# Wholesale Electricity Market Amendment (Tranche 5 Amendments) Rules 2021

### Commencement

- The amending rules set out in Schedule A come into operation at 8:00 AM (WST) on the day after the day of publication of the notice of this Instrument in the *Gazette*.
- The amending rules set out in Schedule B come into operation at 8:00 AM (WST) on 1 February 2022.
- The amending rules set out in Schedule C come into operation at 8:00 AM (WST) on 1 March 2022.
- The amending rules set out in Schedule D come into operation at 8:00 AM (WST) on 12 April 2022.
- The amending rules set out in Schedule E come into operation at 8:00 AM (WST) on 1 July 2022.
- The amending rules set out in Schedule F come into operation at 8:00 AM (WST) on 1 September 2022.
- The amending rules set out in Schedule G come into operation at 8:00 AM (WST) on 1 January 2023.
- The amending rules set out in Schedule H come into operation at 8:00 AM (WST) on 1 October 2023.
- The amending rules set out in Schedule I 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 1.20 amended**

- 1.1 Section 1.20 is amended by deleting the contents of it, including the section heading, and replacing them with '[Blank]'.

### **2. Section 1.20A deleted**

- 2.1 Section 1.20A is deleted.

### **3. Section 1.33 amended**

- 3.1 Clause 1.33.1(a)(iii)(2) is amended by deleting the word 'and' after the semi-colon at the end of the clause.

- 3.2 Insert the following new clause 1.33.1(a)(v):

- v. provide the information specified under clause 4.4B.2 to each Network Operator in accordance with the relevant procedure required to be developed by AEMO under clause 1.33.1(a)(i) for AEMO to complete the activities described in that WEM Procedure; and

- 3.3 Clause 1.33.1(b)(iv) is amended by deleting the word 'and' after the semi-colon at the end of the clause.

- 3.4 Clause 1.33.1(b)(v) is amended by deleting the word 'and' after the semi-colon at the end of the clause.

- 3.5 Insert the following new clauses 1.33.1(b)(vi) and 1.33.1(b)(vii):

- vi. provide the information specified under clause 4.4B.5 to AEMO in accordance with the relevant procedure required to be developed by AEMO under clause 1.33.1(a)(i) for AEMO to complete the activities described in that WEM Procedure; and
- vii. develop RCM Limit Advice in accordance with the relevant procedure required to be developed by each Network Operator in accordance with clause 1.33.1(b)(i) for AEMO to complete the activities described in the WEM Procedure required to be developed by AEMO under clause 1.33.1(a)(i); and

### **4. Section 1.36 amended**

- 4.1 Clause 1.36.6(c) is deleted and replaced by the following:

- (c) may, with industry consultation, be amended or replaced with a revised WEM Procedure without undertaking the Procedure Change Process by the party responsible for developing the WEM Procedure until six months after the New WEM Commencement Day provided that, in determining a commencement date for the revised WEM Procedure, the party responsible for developing the WEM Procedure gives reasonable consideration of an appropriate commencement date that minimises the impact of the changes to the WEM Procedure on Rule Participants. To avoid

doubt, after 6 months from the New WEM Commencement Day, any amendment or replacement of the WEM Procedure must be made in accordance with the Procedure Change Process.

4.2 Insert the following new clause 1.36.7:

- 1.36.7. In developing, amending or replacing a WEM Procedure in accordance with this section 1.36, AEMO, a Network Operator or the Coordinator, as applicable, must:
- (a) publish a call for submissions on the proposed or revised WEM Procedure, and the due date for submissions must not be less than 15 Business Days from the date the proposed or revised WEM Procedure is published; and
  - (b) publish, together with the final WEM Procedure, a summary of the submissions received and the response of AEMO, the Network Operator or the Coordinator, as applicable, to the issues raised in those submissions.

**5. Section 1.43 amended**

5.1 Clause 1.43.6(c) is amended by:

- (a) deleting the words 'for a period of six months from the date that the relevant WEM Procedure was deemed to be the WEM Procedure under clause 1.43.6(b)' and replacing them with the words 'until six months after the New WEM Commencement Day';
- (b) deleting the words 'amended or replaced' after the words 'commencement date for the'; and
- (c) deleting the words 'To avoid doubt, after the expiry of the six month period, any amendment or replacement of the WEM Procedure must be made in accordance with the Procedure Change Process;' and replacing them with the words 'To avoid doubt, after six months from the New WEM Commencement Day, any amendment or replacement of the WEM Procedure must be made in accordance with the Procedure Change Process.'

5.2 Insert the following new clause 1.43.7:

- 1.43.7. In developing, amending or replacing a WEM Procedure in accordance with this section 1.43, AEMO, a Network Operator or the Economic Regulation Authority, as applicable, must:
- (a) publish a call for submissions on the proposed or revised WEM Procedure, and the due date for submissions must not be less than 15 Business Days from the date the proposed or revised WEM Procedure is published; and
  - (b) publish, together with the final WEM Procedure, a summary of the submissions received and the response of AEMO, the Network Operator or

the Economic Regulation Authority, as applicable, to the issues raised in those submissions.

**6. Section 1.43A added**

6.1 Insert the following new section 1.43A:

**1.43A. Specific Transitional Provisions – WEM Procedures for Particular Wholesale Electricity Market and Constrained Network Access Reform Amending Rules**

1.43A.1. In this section 1.43A:

**Specified Amending Rules:** Means the Amending Rules in the *Wholesale Electricity Market Amendment (Tranche 5 Amendments) Rules 2021* and the *Wholesale Electricity Market (Miscellaneous Amendments No. 2) Rules 2021* made by the Minister under regulation 7(5) of the WEM Regulations 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, 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 1.43A.

1.43A.2. Where the Specified Amending Rules oblige AEMO or the Coordinator to develop or document a WEM Procedure then, notwithstanding that the relevant WEM Rule has not commenced, AEMO and the Coordinator must comply with their obligations in this section 1.43A, as if the relevant WEM Rule was in force.

1.43A.3. AEMO must, without limiting clause 1.43A.6:

- (a) develop each procedure it is responsible for in accordance with the Specified Amending Rules prior to the commencement of the relevant Amending Rule in the Specified Amending Rules that requires AEMO to develop or document that procedure; and
- (b) consult with Rule Participants and other relevant stakeholders in developing the procedures it is responsible for in accordance with the Specified Amending Rules.

1.43A.4. The Coordinator must, without limiting clause 1.43A.6:

- (a) develop each procedure it is responsible for in accordance with the Specified Amending Rules prior to the commencement of the relevant Amending Rule in the Specified Amending Rules that requires the Coordinator to develop or document that procedure; and
- (b) consult with Rule Participants and other relevant stakeholders in developing the procedures it is responsible for in accordance with the Specified Amending Rules.

- 1.43A.5. Each WEM Procedure that is required to be developed under clauses 1.43A.3(a) and 1.43A.4(a):
- (a) without limiting clauses 1.43A.3(b) and 1.43A.4(b) may, but is not required to, be developed in accordance with the Procedure Change Process;
  - (b) is, from the commencement of the relevant Amending Rule in the Specified Amending Rules that requires the person to develop or document the procedure, deemed to be the relevant WEM Procedure required to be developed under the relevant clause in the Specified Amending Rules; and
  - (c) may, with industry consultation, be amended or replaced with a revised WEM Procedure without undertaking the Procedure Change Process by the party responsible for developing the WEM Procedure until six months after the New WEM Commencement Day provided that in determining a commencement date for the revised WEM Procedure, the party responsible for developing the WEM Procedure gives reasonable consideration of an appropriate commencement date that minimises the impact of the changes to the WEM Procedure on Rule Participants. To avoid doubt, after six months from the New WEM Commencement Day, any amendment or replacement of the WEM Procedure must be made in accordance with the Procedure Change Process.
- 1.43A.6. In developing, amending or replacing a WEM Procedure in accordance with this section 1.43, AEMO or the Coordinator, as applicable, must:
- (a) publish a call for submissions on the proposed or revised WEM Procedure and the due date for submissions must not be less than 15 Business Days from the date the proposed or revised WEM Procedure is published; and
  - (b) publish, together with the final WEM Procedure, a summary of the submissions received and the response of AEMO or the Coordinator, as applicable, to the issues raised in those submissions.

**7. Section 1.48A added**

7.1 Insert the following new section 1.48A:

**1.48A. Specific Transitional Provisions – Miscellaneous**

- 1.48A.1. AEMO must document the WEM Procedure referred to in clause 4.11.3A(c) by the date specified in clause 4.1.4 for the 2021 Reserve Capacity Cycle.
- 1.48A.2. Notwithstanding clause 1.33.3, AEMO and each Network Operator must comply with their obligations under section 2.27A in performing their obligations under, or in connection with, section 4.4B.

**8. Section 2.1A amended**

8.1 Insert the following new clause 2.1A.2(II):

- (II) to support the Coordinator's role, and to facilitate and implement decisions by the Coordinator and the Minister regarding the evolution and development of the Wholesale Electricity Market and the WEM Rules, and the management of Power System Security and Power System Reliability in the SWIS; and

**9. Section 2.2A amended**

9.1 Insert the following new clause 2.2A.1(bC):

- (bC) to support the Coordinator's role, and to facilitate and implement decisions by the Coordinator and the Minister regarding the evolution and development of the Wholesale Electricity Market and the WEM Rules;

**10. Section 2.9 amended**

10.1 Insert the following new clause 2.9.2F:

- 2.9.2F. The Economic Regulation Authority, the Coordinator and each Network Operator must publish any WEM Procedures they are required to document or develop under these WEM Rules on their respective websites.

**11. Section 2.22A amended**

11.1 Clause 2.22A.1 is deleted and replaced with the following:

- 2.22A.1. Subject to the requirements of this section 2.22A, AEMO may recover its costs for performing its functions under the WEM Regulations and the WEM Rules.

11.2 Clause 2.22A.2 is deleted and replaced with the following:

- 2.22A.2. For the Review Period, AEMO must seek the determination of its Allowable Revenue and Forecast Capital Expenditure from the Economic Regulation Authority for its functions, in accordance with the proposal guideline referred to in clause 2.22A.9.

11.3 Clause 2.22A.2A is deleted and replaced with the following:

- 2.22A.2A. A submission by AEMO under clause 2.22A.2 must be made and processed in accordance with the following timelines:
  - (a) by 31 October of the year prior to the start of the Review Period, AEMO must submit a proposal for its Allowable Revenue and Forecast Capital Expenditure over the Review Period to the Economic Regulation Authority;
  - (b) by 31 March of the year in which the Review Period commences, the Economic Regulation Authority must publish on its website a draft

determination of AEMO's Allowable Revenue and Forecast Capital Expenditure for the Review Period for public consultation;

- (c) by 30 April of the year in which the Review Period commences, the Economic Regulation Authority must prepare and publish on its website its final determination of AEMO's Allowable Revenue and Forecast Capital Expenditure for the Review Period together with any submission received in response to the draft determination published in accordance with clause 2.22A.2A(b); and
- (d) where the Economic Regulation Authority does not make a determination by the date in clause 2.22A.2A(c) or clause 2.22A.2B(c), the Market Fee rate and System Operation Fee rate determined in accordance with section 2.24 for the current Financial Year will continue to apply until the Economic Regulation Authority makes a determination.

11.4 Clause 2.22A.2B is amended by deleting the words 'clause 2.22A.2' and replacing them with the words 'clause 2.22A.2A'.

11.5 Clause 2.22A.3 is deleted and replaced with the following:

2.22A.3. AEMO's proposal under clause 2.22A.2A(a) or clause 2.22A.2B(a) or AEMO's application for reassessment under clause 2.22A.12 or clause 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.

11.6 Clause 2.22A.4 is deleted and replaced with the following:

2.22A.4. If AEMO appoints a Delegate, then its proposal for, or application for reassessment of, its Allowable Revenue and Forecast Capital Expenditure must separately itemise the amount payable to the Delegate.

11.7 Clause 2.22A.5 is deleted and replaced with the following:

2.22A.5. The Economic Regulation Authority must take the following into account when determining AEMO's Allowable Revenue and Forecast Capital Expenditure or an application for reassessment to the Allowable Revenue or Forecast Capital Expenditure:

- (a) the Allowable Revenue must be sufficient to cover the forward looking costs of performing AEMO's functions in accordance with the following principles:
  - i. recurring expenditure requirements and payments are recovered in the year of the expenditure; and
  - ii. capital expenditure is to be recovered through the depreciation and amortisation of the assets acquired by the capital

expenditures in a manner that is consistent with generally accepted accounting principles;

- (b) the Allowable Revenue and Forecast Capital Expenditure must include only costs which would be incurred by a prudent provider of the services provided by AEMO in performing its functions, acting efficiently, to achieve the lowest practicably sustainable cost of performing AEMO's functions, while effectively promoting the Wholesale Market Objectives;
- (c) where possible, the Economic Regulation Authority should benchmark the Allowable Revenue and Forecast Capital Expenditure against the costs of providing similar functions and/or projects in other jurisdictions;
- (d) where costs incurred by AEMO relate to both the performance of functions in connection with the WEM Rules, and the performance of AEMO's other functions, the costs must be allocated on a fair and reasonable basis between:
  - i. costs recoverable as part of AEMO's Allowable Revenue and Forecast Capital Expenditure; and
  - ii. other costs not to be recovered under the WEM Rules; and
- (e) any other matters the Economic Regulation Authority considers relevant to its determination.

11.8 Clause 2.22A.6 is deleted and replaced with the following:

2.22A.6. The Economic Regulation Authority may do any or all of the following in respect to AEMO's proposal under clause 2.22A.2A(a) or clause 2.22A.2B(a):

- (a) approve the costs of any project;
- (b) approve the costs of AEMO performing its functions;
- (c) if the Economic Regulation Authority considers that some costs do not meet the requirements of clause 2.22A.5, reject the costs fully or partially, or substitute those costs with costs the Economic Regulation Authority considers meets the requirements of clause 2.22A.5; and
- (d) recommend to AEMO that some of the costs be considered in a subsequent Review Period or in accordance with clause 2.22A.14.

11.9 Clause 2.22A.7 is deleted and replaced with the following:

2.22A.7. By 30 June each year, AEMO must publish on the WEM Website a budget for the costs AEMO will incur in performing its functions for the coming Financial Year (including, without limitation, the amount to be paid to a Delegate). AEMO must ensure that its budget is:

- (a) consistent with the Allowable Revenue and Forecast Capital Expenditure determined by the Economic Regulation Authority for the relevant Review Period and any reassessment; and
- (b) reported in accordance with the Regulatory Reporting Guidelines issued by the Economic Regulation Authority from time to time in accordance with clause 2.22A.9.

11.10 Clause 2.22A.8 is deleted and replaced with the following:

2.22A.8. By 31 October each year, AEMO must publish on the WEM Website a financial report showing AEMO's actual financial performance against its budget for the previous Financial Year (including, without limitation, the actual amount paid to a Delegate compared to the budgeted amount). The report must be in accordance with the Regulatory Reporting Guidelines issued by the Economic Regulation Authority from time to time in accordance with clause 2.22A.9.

11.11 Clause 2.22A.9 is deleted and replaced with the following:

2.22A.9. The Economic Regulation Authority must issue guidelines, following public consultation, in relation to this section 2.22A, including:

- (a) proposal guidelines, which must consider how future projects that carry a risk of not proceeding or for which the associated costs are not able to be quantified may be dealt with, and provide clarity and guidance to AEMO and Market Participants regarding the level of detail about projects, functions and costs expected in AEMO's proposal; and
- (b) regulatory reporting guidelines, which:
  - i. must contain annual reporting obligations and provide clarity and guidance to AEMO and Market Participants about the scope of reporting and how AEMO should annually report to the Economic Regulation Authority and Market Participants; and
  - ii. are aimed at providing transparency and accountability in relation to AEMO's functions and Allowable Revenue and Forecast Capital Expenditure.

11.12 Clause 2.22A.10 is deleted and replaced with the following:

2.22A.10. The Economic Regulation Authority may amend guidelines issued under clause 2.22A.9 at any time, following public consultation which allows a reasonable opportunity for relevant stakeholders to present their views.

11.13 Clause 2.22A.11 is deleted and replaced with the following:

2.22A.11. Where the revenue earned for the functions performed by AEMO via Market Fees in the previous Financial Year, is greater than or less than AEMO's expenditure for

that Financial Year, AEMO's current year's budget must take into account any difference between AEMO's Market Fees revenue and AEMO's expenditure in the previous Financial Year by:

- (a) decreasing the budgeted revenue by the amount of any revenue surplus;  
or
- (b) increasing the budgeted revenue by the amount of any revenue shortfall.

11.14 Clause 2.22A.12 is deleted and replaced with the following:

2.22A.12. Where, taking into account any adjustment under clause 2.22A.11, AEMO's budget is likely to result in revenue recovery, over the relevant Review Period, being at least the lower of 10% of the Allowable Revenue or \$10 million, greater than the Allowable Revenue determined by the Economic Regulation Authority, AEMO must apply to the Economic Regulation Authority to reassess the Allowable Revenue.

11.15 Clause 2.22A.13 is deleted and replaced with the following:

2.22A.13. AEMO must apply to the Economic Regulation Authority to determine the adjusted Forecast Capital Expenditure for the current Review Period if the capital expenditure, over the relevant Review Period, is likely to be at least the lower of 10% of the Forecast Capital Expenditure or \$10 million, greater than the Forecast Capital Expenditure determined by the Economic Regulation Authority.

11.16 Insert the following new clause 2.22A.13A:

2.22A.13A. If AEMO underspends on the Allowable Revenue and/or Forecast Capital Expenditure determined by the Economic Regulation Authority in a Review Period, then, for the next Review Period, the \$10 million threshold in clause 2.22A.13 is to be increased to the amount equal to 30 percent of the underspend plus \$10 million.

11.17 Clause 2.22A.14 is deleted and replaced with the following:

2.22A.14. AEMO may apply to the Economic Regulation Authority, at any time during a Review Period, for additional costs to be considered by the Economic Regulation Authority as part of the Allowable Revenue and Forecast Capital Expenditure for that Review Period:

- (a) for the Allowable Revenue:
  - i. costs previously rejected by the Economic Regulation Authority pursuant to clause 2.22A.6;
  - ii. new costs for new projects or new functions conferred on AEMO since AEMO's proposal for its Allowable Revenue for the current Review Period was submitted; and

- iii. costs which were not able to be estimated with reasonable confidence at the time the Allowable Revenue for the current Review Period was submitted; and
- (b) for the Forecast Capital Expenditure:
- i. costs previously rejected by the Economic Regulation Authority pursuant to clause 2.22A.5;
  - ii. new costs for new projects or new functions conferred on AEMO since AEMO's proposal for its Forecast Capital Expenditure for the current Review Period was submitted; and
  - iii. costs which were not able to be estimated with reasonable confidence at the time of the Forecast Capital Expenditure for the current Review Period was submitted.

11.18 Clause 2.22A.15 is deleted and replaced with the following:

2.22A.15. The Economic Regulation Authority may request information from AEMO in relation to the performance of its functions under this section 2.22A. AEMO must provide the information to the Economic Regulation Authority by the time specified in a request, which must be reasonable.

11.19 Insert the following new clauses 2.22A.16 and 2.22A.17:

2.22A.16. AEMO must make an application under clauses 2.22A.12 or 2.22A.14(a) by 31 March for the Economic Regulation Authority to make a determination before the commencement of the Financial Year to which it relates.

2.22A.17. The Economic Regulation Authority may amend a determination under 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 the Economic Regulation Authority:

- (a) must take the matters referred to in clause 2.22A.5 into account in determining any reassessment;
- (b) may consider as part of its amended determination any earlier determined costs where the Economic Regulation Authority reasonably considers it necessary to review those earlier determined costs as part of the reassessment;
- (c) is not required to reassess earlier determined costs in making its redetermination of the Allowable Revenue or Forecast Capital Expenditure; and
- (d) must complete such public consultation as the Economic Regulation Authority considers appropriate in the circumstances.

**11A. Section 2.24 amended**

- 11A.1 Clause 2.24.2 is amended by deleting the words 'clause 2.22A.4' and replacing them with the words 'clause 2.22A.7'.
- 11A.2 Clause 2.24.3 is amended by deleting the words 'clause 2.22A.4' and replacing them with the words 'clause 2.22A.7' in each place where they occur.

**12. Section 2.33 amended**

- 12.1 Clause 2.33.1(n) is deleted and replaced with the following:
- (n) an acknowledgement from the Rule Participant that it is aware of its obligations under these WEM Rules; and

**13. Section 3A.13 amended**

- 13.1 Insert the following new clause 3A.13.2A:
- 3A.13.2A. A Network Operator must develop and publish the initial guidelines referred to in clause 3A.13.2 by 1 July 2022.

**14. Section 4.1 amended**

- 14.1 Clause 4.1.23A is amended by deleting the words 'the Trading Week containing the last Trading Day of'.
- 14.2 Clause 4.1.23B is amended by deleting the words 'the Trading Week containing the last Trading Day of'.
- 14.3 Clause 4.1.24 is deleted and replaced with the following:
- 4.1.24. For each Trading Month, AEMO must determine and publish the Individual Reserve Capacity Requirement for each Market Participant in accordance with clause 4.28.7 by 5:00PM on the Business Day that is five Business Days prior to the Interval Meter Deadline for the relevant Trading Month.

**15. Section 4.2 amended**

- 15.1 Clause 4.2.7(c) is deleted and replaced with the following:
- (c) based on the Expressions of Interest, the additional Reserve Capacity potentially available by:
- i. Facility Technology Types, including:
    - 1. Intermittent Generating Systems;
    - 2. Non-Intermittent Generating Systems; and
    - 3. Electric Storage Resources;
  - ii. Demand Side Programmes; and

iii Small Aggregation.

**16. Section 4.10 amended**

16.1 Clause 4.10.3 is amended by deleting the words 'in accordance with clause 4.11.3B(b)'.

16.2 Clause 4.10.3A(b) is amended by deleting the words 'in clause 4.11.3B'.

**17. Section 4.11 amended**

17.1 Clause 4.11.3B is deleted and replaced with the following:

4.11.3B. The Required Level (which for an upgraded Facility is calculated for the Facility as a whole):

- (a) for Facilities assigned Certified Reserve Capacity under clause 4.11.1(a), is calculated by AEMO using the Capacity Credits assigned to the Facility and temperature dependence information submitted to AEMO under clause 4.10.1(e)(i) or provided in Standing Data (where available) and converted to a sent out basis to 41 degrees Celsius;
- (b) for Facilities assigned Certified Reserve Capacity under clause 4.11.2(b), is either:
  - i. the value, expressed in MW as a sent out value, that equals the five percent probability of exceedance of expected generation output for the Facility, submitted to AEMO in the report described in clause 4.10.3A(b); or
  - ii. the proposed alternative value, expressed in MW as a sent out value, provided in the report described in clause 4.10.3A(c), where AEMO has accepted the proposed alternative value under clause 4.11.2A; and
- (c) for Demand Side Programmes, is calculated by AEMO using the Facility's Relevant Demand minus the Capacity Credits assigned to the Facility.

17.2 Delete clause 4.11.3BA.

**18. Chapter 11 Glossary amended**

18.1 The definition for 'Allowable Revenue' is deleted and replaced with the following:

**Allowable Revenue:** Means the allowable revenue for AEMO in performing its functions set out in clause 2.1A.2 as determined by the Economic Regulation Authority in accordance with section 2.22A.

18.2 The definition for 'Declared Market Project' is deleted.

18.3 The definition for 'Forecast Capital Expenditure' is deleted and replaced with the following:

**Forecast Capital Expenditure:** With respect to AEMO, the predicted sum of capital expenditure required for a Review Period as determined by the Economic Regulation Authority in accordance with section 2.22A.

## **Schedule B**

### **1. Section 2.1A amended**

1.1 Insert the following new clauses 2.1A.2(eC), 2.1A.2(eD) and 2.1A.2(IH):

(eC) to trigger and administer the SESSM in accordance with section 3.15A;

(eD) to procure, schedule and dispatch Non-Co-optimised Essential System Services in accordance with these WEM Rules;

(IH) to contribute to, provide information and assist with, the development of the Transmission System Plan in accordance with section 4.5B;

1.2 Clause 2.1A.2(IG) is amended by deleting the word 'and' which occurs after the semi-colon.

### **2. Section 2.2C amended**

2.1 Insert the following new clauses 2.2C.1(bB), 2.2C.1(bC) and 2.2C.1(bD):

(bB) procure Non-Co-optimised Essential System Services in accordance with sections 3.11A and 3.11B;

(bC) develop and publish a Transmission System Plan in accordance with section 4.5B;

(bD) to facilitate and support the Coordinator's role under clause 2.2D.1(h), and to prepare for and enable the evolution and development of the Wholesale Electricity Market and the WEM Rules;

### **3. Section 2.2D amended**

3.1 Clause 2.2D.1(e) is amended by deleting the word '[Blank]' and replacing it with the words 'develop and publish a Whole of System Plan in accordance with section 4.5A;'

3.2 Insert the following new clauses 2.2D.1(iA) and 2.2D.1(iB):

(iA) trigger the procurement of Non-Co-optimised Essential System Services in accordance with section 3.11A;

(iB) to perform any obligations imposed on the Coordinator under section 4.5B;

### **4. Section 2.28 amended**

4.1 Clause 2.28.11A is amended by inserting the words 'or NCESS Contract' immediately after the words 'Ancillary Service Contract'.

4.2 Clause 2.28.11B is amended by inserting the words 'or NCESS Contract' immediately after the words 'Ancillary Service Contract'.

**5. Section 2.30 amended**

5.1 Clause 2.30.5(c) is amended by inserting the words 'Dispatch Support Service Contract' immediately after the words 'Ancillary Service Contract,'.

**6. Section 3.9 amended**

6.1 Clause 3.9.9 is amended by deleting the contents of the clause and replacing them with '[Blank]'.

**7. Section 3.11 amended**

7.1 Clause 3.11.4(d) is amended by inserting the words 'and' immediately after the semi-colon.

7.2 Clause 3.11.4(e) is amended by deleting the contents of the clause and replacing them with '[Blank]'.

7.3 Clause 3.11.8A is amended by:

(a) inserting the word 'or' immediately after the words 'Load Rejection Reserve Service,';  
and

(b) deleting the words 'or Dispatch Support Service'.

7.4 Clause 3.11.8B is amended by deleting the contents of the clause and replacing them with '[Blank]'.

7.5 Clause 3.11.8C is amended by deleting the contents of the clause and replacing them with '[Blank]'.

7.6 Clause 3.11.8D is amended by deleting the contents of the clause and replacing them with '[Blank]'.

**8. Section 3.11A added**

8.1 Insert the following new section 3.11A:

**3.11A. Triggering Procurement of Non-Co-optimised Essential System Services (NCESS)**

3.11A.1. The Coordinator may only trigger procurement of a NCESS in accordance with this section 3.11A.

3.11A.2. Where a Network Operator reasonably considers that one or more of the following events has occurred or applies, the Network Operator must make a submission to request the Coordinator to determine whether or not to trigger an NCESS procurement process in accordance with section 3.11B:

- (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.

3.11A.2A. Where AEMO reasonably considers that one or more of the following events has occurred or applies, AEMO must make a submission to request the Coordinator to determine whether or not to trigger an NCESS procurement process in accordance with section 3.11B:

- (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.

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

- (a) be in writing;
- (b) be made by a date that 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 clause 3.11A.2 that is specified in the submission to enable the Coordinator to consider the factors outlined in clause 3.11A.7.

3.11A.4. The Coordinator may trigger an NCESS procurement process in accordance with section 3.11B where any one or more of the following events has occurred or applies:

- (a) the actual or forecast amount of Constrained On Quantities or Constrained Off Quantities in the Wholesale Electricity Market imposes an unreasonable level of costs on the market, when assessed against the Wholesale Market Objectives;
  - (b) the Whole of System Plan published under section 4.5A indicates alternative network investment options may exist that are reasonably likely to meet a relevant identified network need;
  - (c) the Amending Rules in a Final Rule Change Report require a new service;
  - (d) the Coordinator has received a submission from a Network Operator under clause 3.11A.2 or AEMO under clause 3.11A.2A.
- 3.11A.5. When determining under clause 3.11A.4 whether or not to trigger an NCESS procurement process in accordance with section 3.11B, the Coordinator may:
- (a) where the Coordinator has received a submission under clauses 3.11A.2 and 3.11A.2A, request any reasonable further information or analysis from AEMO or the Network Operator to supplement the submission, and AEMO or the Network Operator, as applicable, must provide the information or analysis by the time specified in the request, which must be a reasonable having regard to the nature of the information or analysis requested;
  - (b) consult with AEMO or a Network Operator; and
  - (c) undertake any reasonable studies, analysis or assessment to support her or his decision.
- 3.11A.6. The Coordinator must determine whether to trigger the procurement of an NCESS under clause 3.11A.4:
- (a) where the Coordinator has received a submission from AEMO or a Network Operator under clauses 3.11A.2 or 3.11A.2A, within 20 Business Days of the later of:
    - i. receipt of the submission; and
    - ii. receipt of any further information or analysis under clause 3.11A.5;
 or
  - (b) where the Coordinator becomes aware of any other event specified in clause 3.11A.4, within 20 Business Days of the later of:
    - i. becoming aware of the event; and
    - ii. receipt of any further information or analysis under clause 3.11A.5 relating to the event.

- 3.11A.7. The Coordinator must take the following factors into account when determining whether to trigger the procurement of an NCESS under clause 3.11A.6:
- (a) where the issue relates to Power System Security or Power System Reliability, the extent to which an NCESS will address the issue;
  - (b) the extent to which an NCESS will minimise costs in the Wholesale Electricity Market;
  - (c) the relative merits between procuring an NCESS or augmenting the network;
  - (d) the outcome of any investigation of behaviour that reduces the effectiveness of the market, including behaviour related to market power;
  - (e) whether the procurement of an NCESS is consistent with the Wholesale Market Objectives; and
  - (f) whether procurement of an NCESS will be in the long-term interests of consumers.
- 3.11A.8. Where the Coordinator determines under clause 3.11.6 to trigger an NCESS procurement process in accordance with section 3.11B, the Coordinator must publish a determination on the Coordinator's website, redacting any commercially sensitive or other confidential information, together with the following:
- (a) details of any submission received under clause 3.11A.2 or 3.11A.2A;
  - (b) reasons for triggering the procurement of an NCESS;
  - (c) any supporting studies, analysis or assessments relied on by the Coordinator in deciding to trigger the procurement of an NCESS;
  - (d) whether AEMO or a Network Operator (in which case, the name of the Network Operator is to be specified), or both of them, is to procure an NCESS and pay for the service; and
  - (e) any other matters relevant to the Coordinator's decision or procurement of an NCESS.
- 3.11A.9. AEMO or the Network Operator, or both of them, as directed under clause 3.11A.8(e), must commence an NCESS procurement process in accordance with section 3.11B.
- 3.11A.10. Where the Coordinator determines under clause 3.11A.6 not to trigger an NCESS procurement process, the Coordinator must publish a notice on the Coordinator's website, redacting any commercially sensitive or other confidential information, setting out the reasons for her or his decision.

**9. Section 3.11B added**

9.1 Insert the following new section 3.11B:

**3.11B. Procuring Non-Co-optimised Essential System Services**

## Expression of interest

- 3.11B.1. AEMO or the Network Operator, as directed under clause 3.11A.8(e), must prepare a draft NCESS Service Specification in accordance with clause 3.11B.5. In preparing the draft NCESS Service Specification, AEMO and the Network Operator must consult with each other on the draft NCESS Service Specification.
- 3.11B.2. Within 20 Business Days, or as reasonably agreed with the Coordinator, of the publication of the Coordinator's determination under clause 3.11A.8, AEMO or the Network Operator, as applicable, must advertise a call for expressions of interest by:
- (a) publishing a notice on the WEM Website, in the case of AEMO, or publishing a notice on the Network Operator's website, in the case of the Network Operator; and
  - (b) publishing a notice in a major Australian newspaper.
- 3.11B.3. AEMO or the Network Operator, as applicable, must include in each notice referred to in clause 3.11B.2:
- (a) the date and time for lodgement of expressions of interest, which must not be less than 20 Business Days after the date the last notice is published in accordance with clause 3.11B.2;
  - (b) the location on the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator, of the draft NCESS Service Specification;
  - (c) contact details for AEMO or the Network Operator, as applicable; and
  - (d) the location on the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator, of the expression of interest form referred to in clause 3.11B.3A.
- 3.11B.3A. AEMO or the Network Operator, as applicable, must develop and publish on the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator, an expression of interest form, setting out the details prospective service providers must provide in response to a call for expressions of interest, which must include whether the facility or equipment that may be able to provide the service can fully or partially meet the draft NCESS Service Specification.
- 3.11B.4. Within 10 Business Days, or as reasonably agreed with the Coordinator, of the closing date for expressions of interest under clause 3.11B.3, AEMO or the Network Operator, as applicable, must consult with the Coordinator to determine whether, based on the expressions of interest received:
- (a) the NCESS procurement process should proceed, in which case, AEMO or the Network Operator, as applicable, must prepare a final NCESS Service

Specification, which must be consistent with the draft NCESS Service Specification, and publish a call for NCESS Submissions in accordance with clause 3.11B.6;

- (b) the NCESS procurement process should proceed subject to modifications to the Service Specification, in which case, AEMO or the Network Operator, as applicable, must prepare a revised NCESS Service Specification and publish a call for NCESS Submissions in accordance with clause 3.11B.6; or
- (c) the NCESS procurement process should not proceed, in which case, AEMO or the Network Operator, as applicable, must:
  - i. publish a notice on the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator, notifying that the NCESS procurement process will not proceed and the reasons for the decision; and
  - ii. notify each person that submitted an expression of interest that procurement of the NCESS is not proceeding and the location on the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator, of the notice referred to in clause 3.11B.4(c)(i).

3.11B.5. An NCESS Service Specification must, at a minimum, include:

- (a) the service requirements;
- (b) the expected technical capability of a facility or equipment that may be able to provide the service;
- (c) where applicable, the likely network location where the service is to be provided;
- (d) the maximum quantity of the service required;
- (e) the timing and duration of the service;
- (f) any operational requirements or limitations;
- (g) the material contractual terms associated with the NCESS, including required pricing structure;
- (h) the selection criteria that may apply to the NCESS Submissions; and
- (i) any other relevant matters.

3.11B.6. In advertising a call for NCESS Submissions in accordance with clause 3.11B.4(a), AEMO or the Network Operator, as applicable, must:

- (a) publish a notice requesting NCESS Submissions:
  - i. on the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator; and

- ii. on at least one major tender portal; and
  - (b) notify Market Participants in writing.
- 3.11B.6A. AEMO or the Network Operator, as applicable, must include in each notice referred to in clause 3.11B.6:
- (a) the date and time for lodgement of NCESS Submissions, which must:
    - i. be within 20 Business Days after the date the last notice is published in accordance with clause 3.11B.6; and
    - ii. be in accordance with the form referred to in clause 3.11B.7;
  - (b) contact details for AEMO or the Network Operator, as applicable; and
  - (c) the location on the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator, of the NCESS Submission form referred to in clause 3.11B.7;
  - (d) the location on WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator, of the NCESS Service Specification referred to in clause 3.11B.5; and
  - (e) any qualifying or other eligibility criteria in respect of making an NCESS Submission in accordance with clause 3.11B.9.
- 3.11B.7. An NCESS Submission form must, at a minimum, include:
- (a) the name and type of facility or equipment, and whether it is registered or intending to register under the WEM Rules;
  - (b) the name of the Market Participant, or service provider, as applicable, in respect to the facility or equipment;
  - (c) the quantity of service the facility or equipment will provide for the NCESS;
  - (d) the timing and duration of the service availability for the NCESS;
  - (e) the location of the facility or equipment on the network;
  - (f) any operational requirements or limitations that must be respected for use of the facility or equipment for the NCESS;
  - (g) where the NCESS Submission is made in respect to a type of technology that would ordinarily be capable of being assigned Certified Reserve Capacity, the information required to be provided by the Market Participant or service provider to demonstrate that it will be able to meet the relevant requirements in clause 4.10.1 for at least the first Reserve Capacity Cycle coinciding with the period of the NCESS Contract;
  - (gA) where the NCESS Submission is made in respect to a type of technology that would not ordinarily be capable of being assigned Certified Reserve Capacity, the information required to be provided by the Market Participant or service provider to demonstrate that it is not able to meet the relevant requirements of clause 4.10.1;

- (h) whether the facility or equipment participates, or will participate, in Central Dispatch or is accredited or will be accredited under these Market Rules to provide an Essential System Service;
- (i) the proposed availability payment which must be equal to or less than the incremental fixed costs, if any, that, where applicable, are not already covered by any Capacity Credit payments, which would be incurred to make the capability available for the NCESS;
- (j) the highest price at which the facility or equipment will provide the NCESS when enabled or dispatched; and
- (k) any other payment that the facility or equipment requires to provide the NCESS.

**Participation in NCESS Procurement**

3.11B.8. An NCESS Submission must:

- (a) be made in good faith;
- (b) be made in accordance with the NCESS Submission form referred to in clause 3.11B.7 and contain any other information requested; and
- (c) include the cost information and any assumptions used to calculate the proposed NCESS payment structure.

**Selection process and signing of NCESS Contract**

3.11B.9. Within 20 Business Days, or as reasonably agreed with the Coordinator, of the closing date for NCESS Submissions, AEMO or the Network Operator, as applicable, must:

- (a) in accordance with clause 3.11B.10, select one or more NCESS Submissions which:
  - i. comply with the requirements in clause 3.11B.7;
  - ii. meet the NCESS Service Specification published in the request for NCESS Submissions; and
  - iii. in AEMO's or the Network Operator's reasonable opinion, as applicable, will result in the highest value for money for providing the NCESS; and
- (b) notify the relevant Market Participant or service provider that their NCESS Submission has been selected.

3.11B.10. Subject to clause 3.11B.12, when determining which NCESS Submissions to select under clause 3.11B.9, AEMO or the Network Operator, as applicable, must:

- (a) exclude NCESS Submissions that do not comply with the NCESS Service Specification; and
- (b) exclude NCESS Submissions for new facilities or equipment where:

- i. insufficient evidence has been provided to support NCESS delivery dates; or
  - ii. sufficient Environmental Approvals have not been granted.
- 3.11B.11. AEMO or the Network Operator, as applicable, must, when assessing highest value for money under clause 3.11B.9(a)(iii) in respect of an NCESS Submission:
  - (a) conduct cost-benefit analysis or other assessments to demonstrate how the NCESS Submission will maximise value for money; and
  - (b) take into account all costs in the Wholesale Electricity Market, including, but not limited to, costs relating to Certified Reserve Capacity in respect to the Facility or equipment the subject of the NCESS Submission.
- 3.11B.12. AEMO or the Network Operator, as applicable, may decide to not select any NCESS Submissions where AEMO or the Network Operator considers, in their absolute discretion, that none of the NCESS Submissions represent value for money. Where this occurs, AEMO or the Network Operator, as applicable, must publish the reasons for the decision the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator.
- 3.11B.13. Where a Network Operator intends to enter into an NCESS Contract that it reasonably believes may require operational coordination with AEMO in order to manage Power System Security or Power System Reliability, or that is captured in the Operating Protocol referred to in clause 3.1A.1, the Network Operator must, prior to issuing the NCESS Contract to the relevant Market Participant or service provider, consult with AEMO, and
  - (a) agree an operational process for coordination of scheduling, dispatch, enablement and monitoring of the NCESS with AEMO; and
  - (b) where AEMO requires control of the NCESS, agree the relevant requirements for control with AEMO and specify the agreed requirements in the NCESS Contract.
- 3.11B.14. Each Market Participant or service provider who is notified in accordance with clause 3.11B.9(b) that their NCESS Submission has been selected must, within 10 Business Days of receiving the executed NCESS Contract from AEMO or the Network Operator, as applicable:
  - (a) enter into an NCESS Contract with AEMO or the Network Operator, as applicable;
  - (b) where the service provider is required to be registered under these WEM Rules, make an application in accordance with these WEM Rules to become registered as a Rule Participant in the relevant class; and

- (c) where the facility or equipment that will provide the NCESS is required to be registered, make an application in accordance with these WEM Rules to register the facility or equipment in the relevant class.

3.11B.15. AEMO or the Network Operator, as applicable, must publish the following details regarding each NCESS Contract on the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator, as soon as practicable after the NCESS Contract has been signed by all parties:

- (a) the name of each Market Participant, Ancillary Service Provider or service provider, and the Facility or equipment that will provide the NCESS;
- (b) the location on the network of the facility or equipment;
- (c) the type of service the facility or equipment will provide as NCESS;
- (d) the timing and duration of the NCESS to be provided under the NCESS Contract; and
- (e) the payment structure and the amounts specified in the NCESS Contract.

#### **10. Section 3.13 amended**

10.1 The heading of section 3.13 is amended by inserting the words 'and Dispatch Support Services' immediately after the words 'Ancillary Services'.

10.2 Clause 3.13.1 is amended by:

- (a) inserting the words 'and Dispatch Support Services' immediately after the words 'Ancillary Services'; and
- (b) in clause 3.13.1(c), deleting the words 'determined in accordance with clause 3.11.8B' immediately after the words 'Dispatch Support Service';

10.3 Clause 3.13.2 is amended by inserting the words 'and Dispatch Support Services' immediately after the words 'Ancillary Services'.

10.4 Clause 3.13.3B(a) is amended by deleting the words 'and Dispatch Support Service except those provided through clause 3.11.8B'.

10.5 Clause 3.13.3C(a) is amended by deleting the words 'and Dispatch Support Service except those provided through clause 3.11.8B'.

#### **11. Section 3.14 amended**

11.1 The heading of section 3.14 is amended by deleting the heading and replacing it with 'Cost Recovery for Ancillary Services and Dispatch Support Services'.

#### **12. Section 3.18 amended**

12.1 Clause 3.18.1B(c) is amended by inserting the words 'or NCESS Contract' immediately after the words 'Ancillary Service Contract'.

12.2 Clause 3.18.2(c)(v) is amended by inserting the words 'or NCESS Contract' immediately after the words 'Ancillary Service Contract'.

**13. Section 4.4B amended**

13.1 Clause 4.4B.2(b) is amended by deleting the word 'and' immediately after the semi colon.

13.2 Clause 4.4B.2(c) is amended by deleting the full stop and replacing it with the word '; and'.

13.3 Insert the following new clause 4.4B.2(d):

(d) details of any NCESS Contracts procured by AEMO which are expected to be in service by 1 October of Year 3 of the Reserve Capacity Cycle, and is expected to impact information provided by a Network Operator under clause 4.4B.5.

13.4 Clause 4.4B.3(a)(ii)(2) is amended by deleting the full stop and replacing it with the word '; and'.

13.5 Insert the following new clause 4.4B.3(a)(ii)(3):

3. all NCESS Contracts expected to be in-service,

13.6 Clause 4.4B.4(a) is amended by inserting the words 'and Limit Advice available in relation to Non-Thermal Network Limits' immediately after the words 'RCM Limit Advice'.

13.7 Clause 4.4B.4(b) is amended by inserting the words 'or Facilities subject to an NCESS Contract' immediately after the words 'are not yet in-service'.

**14. Section 4.5B added**

14.1 Insert the following new section 4.5B:

**4.5B. Transmission System Plan**

4.5B.1. A Network Operator must develop a Transmission System Plan, and publish it on the Network Operator's website, in accordance with this section 4.5B.

4.5B.2. A Network Operator must publish a Transmission System Plan by no later than 1 October each year, in conjunction with its Network Opportunity Map.

4.5B.3. A Transmission System Plan must:

- (a) establish a plan for the efficient development of a transmission system for a planning horizon of at least 10 years;
- (b) meet the Power System Security and Power System Reliability requirements; and
- (c) be in the long-term interests of consumers.

4.5B.4. A Transmission System Plan must include:

- (a) a summary of any significant costs to the Wholesale Electricity Market that have arisen, or may potentially arise, due to the condition of the transmission network, including:
  - i. binding Network Constraints, and the estimated market costs of those binding Network Constraints; and
  - ii. the frequency and magnitude of Constrained On Quantities and Constrained Off Quantities, including for Facilities subject to Network Constraints;
- (b) a set of investment options for developing the transmission system over the relevant planning horizon, which must consider network and non-network solutions to address the matters identified under clause 4.5B.4(a);
- (c) analysis of market related data and an assessment of the costs and benefits, including to the Wholesale Electricity Market, of the investment options identified under clause 4.5B.4(b);
- (d) a recommended development path for the transmission system that would maximise net benefits and seek to minimise the long-term costs of electricity supplied to consumers; and
- (e) a high-level assessment of how the recommended development path referred to in clause 4.5B.4(d) will meet the long-term interests of consumers.

4.5B.5. In developing a Transmission System Plan a Network Operator must take into account:

- (a) the WEM Technical Standards under clause 2.8.14;
- (b) power system security and reliability standards and requirements under the WEM Rules and the Technical Rules;
- (c) any Priority Project identified in the Whole of System Plan or major augmentation that Western Power is able to progress in accordance with the Access Code;
- (d) the Network Quality and Reliability of Supply Code;
- (e) any government policy specified in the Whole of System Plan that the Coordinator considers may impact on the development of the Transmission System Plan, as may be advised by the Coordinator pursuant to the consultation process referred to in clause 4.5B.6 or specified in the Whole of System Plan published by the Coordinator under section 4.5A; and
- (f) any other matters that the Network Operator considers relevant to the Transmission System Plan.

- 4.5B.6. A Network Operator must consult with AEMO and the Coordinator on the assumptions, inputs and scenarios the Network Operator must use in developing and updating a Transmission System Plan, including:
- (a) forecasted demand growth or reduction scenarios, including from the Long Term PASA and Whole of System Plan;
  - (b) scheduled connection of new loads or generators;
  - (c) expected Network modifications, augmentations, or retirement of existing Facilities or Network assets that impact costs in the Wholesale Electricity Market;
  - (d) the Credible Contingency Events and other commonly occurring credible contingencies that may significantly impact the SWIS;
  - (e) a range of facility dispatch scenarios or credible dispatch patterns;
  - (f) data, modelling and results from the testing of scenarios in the Whole of System Plan, to the extent they are relevant as inputs to the Transmission System Plan;
  - (g) relevant information from the Short Term PASA, Medium Term PASA and Long Term PASA studies conducted by AEMO under these WEM Rules; and
  - (h) other market information that the Network Operator, AEMO or the Coordinator considers relevant to meeting the requirements for developing the Transmission System Plan in this section 4.5B.
- 4.5B.7. If, in the Network Operator's opinion, new information becomes available that should be used in place of the inputs from the Whole of System Plan specified in clause 4.5B.6(f), the Network Operator must consult with AEMO and the Coordinator on the accuracy and relevance of the new information for use in developing and updating the Transmission System Plan.
- 4.5B.8. A Network Operator may review the Transmission System Plan, or a part of it, in consultation with AEMO and the Coordinator, where there is a material change in any of the assumptions, inputs or scenarios under clause 4.5B.6 or to a WEM Technical Standard.
- 4.5B.9. Before publishing a Transmission System Plan under clause 4.5B.1, a Network Operator must:
- (a) publish a draft Transmission System Plan; and
  - (b) invite users of the Network, other Rule Participants, electricity consumers and other interested persons to make submissions on the draft Transmission System Plan by no later than a specified date (with the date to be specified by the Network Operator to be no earlier than 20 Business Days after the date on which the draft Transmission System Plan is published).

- 4.5B.10. A Network Operator must:
- (a) take into account any submissions received on the draft Transmission System Plan; and
  - (b) publish on the Network Operator's website a summary of each submission received on the draft Transmission System Plan and the Network Operator's response to it, redacting any commercially sensitive or other confidential information.
- 4.5B.11. Notwithstanding clause 4.5B.2, a Network Operator must develop and publish its first Transmission System Plan in accordance with the requirements in section 4.5B, and:
- (a) publish a draft of the Transmission System Plan by 1 October 2022; and
  - (b) publish the final Transmission System Plan by 1 February 2023.

**15. Section 4.8 amended**

15.1 Clause 4.8.3(b) is amended by deleting the full stop and replacing it with the words '; or'.

15.2 Insert the following new clause 4.8.3(c):

- (c) an application for Certified Reserve Capacity submitted under clause 4.9.1(a) for a Facility subject to an NCESS Contract.

**16. Section 4.29 amended**

16.1 Clause 4.29.3(d)(i) is amended by deleting the words '(including Capacity Credits from Facilities subject to Network Control Service Contracts)'.

**17. Chapter 5 amended**

17.1 The heading of Chapter 5 is deleted and replaced with '**Network Control Services and AEMO-procured NCESS**'.

17.2 The subheading immediately above section 5.1 is deleted.

**18. Section 5.2A amended**

18.1 Clause 5.2A.1 is amended by deleting the contents of the clause and replacing them with '[Blank]'.

18.2 Clause 5.2A.2 is deleted and replaced with the following:

- 5.2A.2. Where a Market Participant enters into a Dispatch Support Service Contract or a Network Control Service Contract for a Facility, and the Facility would ordinarily be capable of being assigned Certified Reserve Capacity, then the Market Participant must meet the requirements of clause 4.8A.3(c) where applicable, and use best endeavours to meet the requirements of clause 4.10.1., in respect of each Reserve Capacity Cycle that the Facility would be eligible to participate in over the period

for which a service will be provided under the relevant Dispatch Support Service Contract or Network Control Service Contract.

18.3 Clause 5.2A.3 is deleted and replaced with the following:

5.2A.3. Clause 5.2A.2 does not require a Market Participant to apply for Certified Reserve Capacity for a Facility for a Reserve Capacity Cycle where the Market Participant has entered into a Network Control Service Contract or Dispatch Support Service Contract in respect of the Facility after the date and time specified under clause 4.1.11 for that relevant Reserve Capacity Cycle.

**19. Section 5.3 amended**

19.1 Section 5.3 is deleted and replaced with the following:

**5.3. Variations to NCESS Contract**

5.3.1. Where a Market Participant, that has entered into an NCESS Contract in respect of a Facility, is assigned Capacity Credits for the Facility in a Reserve Capacity Cycle that coincides with the period of the NCESS Contract, then:

- (a) where the NCESS Contract was entered into with AEMO, AEMO must vary the payment terms of the NCESS Contract such that the total payment under the NCESS Contract is reduced by the value of the total amount of the expected Capacity Credit payments to be paid to the relevant Market Participant for that Reserve Capacity Cycle; or
- (b) where the NCESS Contract was entered into with a Network Operator, AEMO must provide the value of the total amount of expected Capacity Credit payments to the Network Operator, and the Network Operator must vary the payment terms of the NCESS Contract such that the total payment under the NCESS Contract is reduced by the value of the total amount of the expected Capacity Credit payments to be paid to the relevant Market Participant for that Reserve Capacity Cycle.

5.3.2. Where the NCESS Contract payment terms are varied in accordance with clause 5.3.1(a), AEMO must apply the revised payment terms in the immediate next Settlement Statement.

**20 Section 5.3A amended**

20.1 Clause 5.3A.1 is deleted and replaced with the following:

5.3A.1. When a Network Operator has entered into a Network Control Service Contract with a Market Participant or Ancillary Service Provider, the Network Operator must as soon as practicable and not less than 20 Business Days prior to a Network Control Service Contract taking effect, provide AEMO with:

- (a) the identity of the Market Participant or Ancillary Service Provider;
- (b) the identity of the Facility or equipment providing the service;

- (c) a unique identifier for the Network Control Service Contract;
- (d) the period over which the services are to be provided by the Network Control Service Contract; and
- (e) whether the Network Control Service Contract, if it relates to a Facility, requires that the Facility not be part of an aggregated Facility.

20.2 Clause 5.3A.3 is deleted and replaced with the following:

5.3A.3. When a Network Operator has entered into a Network Control Service Contract with a Market Participant or Ancillary Service Provider, the Network Operator must provide AEMO with the details of the Network Control Services Contract to enable AEMO to dispatch the services provided under it.

**21. Section 5.7 amended**

21.1 Clause 5.7.2 is amended by inserting the words 'or equipment' immediately after the words 'relevant Facility'.

**22. Section 5.9 amended**

22.1 Clause 5.9.1(b)(ii) is amended by inserting the words 'or Ancillary Service Provider' immediately after the words 'Market Participant'.

22.2 Clause 5.9.2 is amended by inserting the words 'or otherwise instructed by AEMO' immediately after the words 'quantities dispatched'.

22.3 Clause 5.9.3(d) is amended by inserting the words 'or Ancillary Service Provider' immediately after the words 'Market Participant'.

22.4 Insert the following new clause 5.9.4:

5.9.4. The information provided by AEMO to a Network Operator under clause 5.9.2 must also include, if applicable, for each relevant Facility and Trading Interval any quantity of service deployed which is not a quantity described in 5.9.3(b).

**23. Section 6.17 amended**

23.1 Clause 6.17.6D(b)(ii) is amended by inserting the words 'or Dispatch Support Services Contract' immediately after the words 'Ancillary Service Contract'.

**24. Section 6.20 amended**

24.1 Clause 6.20.14(b) is amended by inserting the words 'or Dispatch Support Services' immediately after the words 'Ancillary Services'.

**25. Section 7.6 amended**

25.1 Clause 7.6.1B(b) is amended by inserting the words 'or Dispatch Support Services Contract' immediately after the words 'Ancillary Service Contract'.

25.2 Insert the following new clause 7.6.12A:

7.6.12A. AEMO may give a direction to a Market Participant or Ancillary Service Provider in respect of equipment that is not a Facility under a Dispatch Support Service Contract in order to seek to meet the Dispatch Criteria.

**26. Section 7.7 amended**

26.1 Clause 7.7.3A(e) is amended by inserting the words 'a Dispatch Support Service Contract,' immediately after the words 'Ancillary Service Contract,'.

26.2 Clause 7.7.7A is amended by:

- (a) inserting the words 'Dispatch Support Service Contract,' immediately after the words 'Ancillary Service Contract,';
- (b) deleting the words 'Ancillary Service or Network Control Service' and replacing them with the word 'service'; and
- (c) deleting the words 'Ancillary Service Contract or Network Control Service Contract' immediately after the words 'accordance with the' and replacing them with the word 'contract'.

**27. Section 7.10 amended**

27.1 Clause 7.10.7(a)(iii) is amended by inserting the words 'Dispatch Support Service or Network Control Service Contract,' immediately after the words 'Ancillary Service Contract,'.

**28. Section 9.3 amended**

28.1 Clause 9.3.1 is amended by:

- (a) in clause 9.3.1(a), inserting the words 'Dispatch Support Service' immediately after the words 'Ancillary Service,'; and
- (b) replacing the word 'clause' with the word 'section' in each place where it occurs.

**29. Section 9.9 amended**

29.1 Clause 9.9.3A is amended by:

- (a) inserting the word 'and' after the words 'Load Rejection Reserve Service'; and
- (b) deleting the words ', Dispatch Support Services except those provided through clause 3.11.8B'.

29.2 Clause 9.9.3B is amended by:

- (a) inserting the word 'and' after the words 'Load Rejection Reserve Service'; and
- (b) deleting the words 'and Dispatch Support Services except those provided through clause 3.11.8B'.

29.3 Clause 9.9.4(a) is amended by inserting the words 'or Dispatch Support Service Contract,' immediately after the words 'Ancillary Service Contract,'.

29.4 Clause 9.9.4(b) is amended by inserting the words 'or Dispatch Support Service Contract,' immediately after the words 'Ancillary Service Contract,'.

**30. Section 9.24 amended**

30.1 Clause 9.24.3A(a)(ii) is amended by inserting the words 'or to a provider of Dispatch Support Services holding a Dispatch Support Service Contract with AEMO,' immediately after the words 'Ancillary Service Contract with AEMO'.

**31. Chapter 11 Glossary amended**

31.1 The definition for 'Ancillary Service Contract' is deleted and replaced with the following:

**Ancillary Service Contract:** A contract between AEMO and a Market Participant or Ancillary Service Provider for the provision by that Market Participant or Ancillary Service Provider of an Ancillary Service or Ancillary Services to AEMO.

31.2 The definition for 'Contracted Ancillary Service' is deleted and replaced with the following:

**Contracted Ancillary Service:** An Ancillary Service provided by a Rule Participant under an Ancillary Service Contract or a Dispatch Support Service provided by a Rule Participant under a Dispatch Support Service Contract.

31.3 The definition for 'Contracted Dispatch Support Service' is deleted and replaced with the following:

**Contracted Dispatch Support Service:** An NCESS provided by a Rule Participant under an AEMO-procured NCESS Contract.

31.4 The definition for 'Dispatch Support Service' is deleted and replaced with the following:

**Dispatch Support Service:** An AEMO-procured NCESS.

31.5 The definition for 'Network Control Service' is deleted and replaced with the following:

**Network Control Service:** A service provided under a Network Control Service Contract.

31.6 The definition for 'Network Control Service Contract' is deleted and replaced with the following:

**Network Control Service Contract:** Means, as the context requires:

- (a) a contract for the provision of a Network Control Service by a GIA Facility;
- (b) a contract for the provision of a Network Control Service by a non-GIA Facility that was entered into before 1 February 2022; or
- (c) a contract for the provision of a Network Operator-procured NCESS.

31.7 The definition for 'Operating Instruction' is amended by:

- (a) deleting the words 'Means an' and replacing them with the word 'An'; and

- (b) inserting the words 'or Dispatch Support Service Contract' immediately after the words 'Ancillary Services Contract'.

31.8 Insert the following new definitions:

**AEMO-procured NCESS Contract:** A contract between AEMO and a Market Participant or Ancillary Service Provider for the provision of an NCESS.

**Dispatch Support Service Contract:** An AEMO-procured NCESS Contract for the provision of a Dispatch Support Service.

**NCESS:** See Non-Co-optimised Essential System Service.

**NCESS Contract:** A contract procured by AEMO or a Network Operator for the provision of an NCESS.

**NCESS Service Specification:** A service specification prepared by AEMO or a Network Operator in accordance with clause 3.11B.5.

**NCESS Submission:** A submission in accordance with clause 3.11B.8.

**Network Opportunity Map:** Has the meaning given in Chapter 6A of the Access Code.

**Non-Co-optimised Essential System Service:** An Essential System Service procured under section 3.11B.

**Transmission System Plan:** A plan prepared and published by a Network Operator in respect of its Network in accordance with section 4.5B.

## **Schedule C**

### **1. Section 1.45 amended**

1.1 The section 1.45 heading is deleted and replaced with the following:

**Specific Transitional Provisions – Registration for the 2021 Reserve Capacity Cycle, the 2022 Reserve Capacity Cycle and the 2023 Reserve Capacity Cycle**

1.2 Clause 1.45.2 is amended by deleting the words 'For the 2021 Reserve Capacity Cycle and the 2022 Reserve Capacity Cycle only:' and replacing them with the words 'For the 2021 Reserve Capacity Cycle, the 2022 Reserve Capacity Cycle and the 2023 Reserve Capacity Cycle only:'.

1.3 Clause 1.45.3 is amended by deleting the words 'the 2021 Reserve Capacity Cycle and the 2022 Reserve Capacity Cycle' and replacing them with the words 'the 2021 Reserve Capacity Cycle, the 2022 Reserve Capacity Cycle and the 2023 Reserve Capacity Cycle'.

1.4 Clause 1.45.8 is amended by inserting the words 'and/or the 2023 Reserve Capacity Cycle' immediately after the words 'the 2022 Reserve Capacity Cycle'.

1.5 Clause 1.45.10 is amended by deleting the words 'For the 2021 Reserve Capacity Cycle and the 2022 Reserve Capacity Cycle:' and replacing them with the words 'For the 2021 Reserve Capacity Cycle, the 2022 Reserve Capacity Cycle and the 2023 Reserve Capacity Cycle:'

1.6 Clause 1.45.11 is amended by deleting the words 'For the 2021 Reserve Capacity Cycle and the 2022 Reserve Capacity Cycle only' and replacing them with the words 'For the 2021 Reserve Capacity Cycle, the 2022 Reserve Capacity Cycle and the 2023 Reserve Capacity Cycle only'.

## **2. Section 1.49 amended**

2.1 Insert the following new clause 1.49.7A:

1.49.7A. Where AEMO has received an application for accreditation of a Frequency Co-optimised Essential System Service under clause 2.34A.2 and has prioritised an application for a Frequency Co-optimised Essential System Service made under this section 1.49 over that application, then:

- (a) AEMO must notify the applicant that an application made under this section 1.49 has been prioritised over its application under clause 2.34A.2; and
- (b) the timeframe for AEMO to accept or reject the applicant's application under clause 2.34A.4 does not apply, and instead will be the timeframe specified by AEMO, acting reasonably, in the notice from AEMO to the applicant under clause 1.49.7A(a).

## **3. Section 2.27A amended**

3.1 Clause 2.27A.2(a) is amended by inserting the words 'Frequency Co-optimised' immediately before the words 'Essential System Services'.

## **4. Section 4.4 amended**

4.1 Clause 4.4.1(d)(v) is amended by deleting the word 'and' immediately after the semi colon.

4.2 Clause 4.4.1(d)(vi) is amended by deleting the full stop and replacing it with the words '; and'.

4.3 Insert the following new clause 4.4.1(d)(vii):

vii. whether the Facility has entered into or is expected to enter into an NCESS Contract.

## **5. Section 4.8A amended**

5.1 Clause 4.8A.3 is deleted and replaced with the following:

4.8A.3. A person that intends to apply for:

- (a) Early Certified Reserve Capacity under section 4.28C for a new facility or facility upgrade; or

- (b) Conditional Certified Reserve Capacity under clause 4.9.1(b) for a new facility;  
or
- (c) Certified Reserve Capacity under clause 4.9.1(a) for a new Facility subject to an NCESS Contract,

must, prior to submitting the application, apply to AEMO for an indicative Facility Class and one or more indicative Facility Technology Type to be assigned to the facility or facility upgrade.

## **6. Section 4.10 amended**

6.1 Insert the following new clause 4.10.1(dB):

(dB) for a Semi-Scheduled Facility or Scheduled Facility, the minimum stable loading level of the Facility expressed in MW;

6.2 Clause 4.10.1(j) is deleted and replaced with the following:

(j) evidence of whether the Facility will be subject to an NCESS Contract;

6.3 Clause 4.10.1(m) is amended by deleting the words ', part of its Facility' in each place where they occur.

## **7. Section 4.10A amended**

7.1 Clause 4.10A.2(b) is amended by deleting the word 'and' after the semi-colon at the end of the clause.

7.2 Clause 4.10A.2(c) is amended by deleting the full stop at the end of the clause and replacing it with the '; and'.

7.3 Insert the following new clause 4.10A.2(d):

(d) the Expression of Interest for the Facility specified that the Facility was expected to be nominated to be classified as a Network Augmentation Funding Facility in accordance with clause 4.4.1(d)(vi).

7.4 Clause 4.10A.5(b) is deleted and replaced with the following:

(b) the Network Operator has verified the information specified in a request by AEMO under clause 4.10A.7 in accordance with clause 4.10A.8(a); and

7.5 Clause 4.10A.9 is amended by deleting the words 'Where the Network Operator verifies the information specified in a request in accordance with clause 4.10A.8(a), AEMO must' and replacing them with the words 'Where the conditions specified in clause 4.10A.5 are met, AEMO must

## **8. Section 4.10AB added**

8.1 Insert the following new section 4.10AB:

#### **4.10AB. Determination of Constrained Access Entitlement**

- 4.10AB.1. Subject to clause 4.10AB.2, where a Market Participant provides information under clause 4.10.1(bA), or the relevant Network Operator confirms under clause 4.11.5, that a Facility is a Constrained Access Facility, AEMO must request the relevant Network Operator to determine the Constrained Access Entitlement for the Facility.
- 4.10AB.2. Where there is any inconsistency between the information provided by a Market Participant under clause 4.10.1(bA) and the confirmation provided by the Network Operator under clause 4.11.5, the requirement for AEMO to request the Network Operator to determine the Constrained Access Entitlement for the relevant Facility under clause 4.10AB.1 will be based on the confirmation provided by the Network Operator.
- 4.10AB.3. Within 10 Business Days after receiving a request from AEMO under clause 4.10AB.1 or after receiving from AEMO any information requested under clause 4.10AB.6(a), the Network Operator must determine the Constrained Access Entitlement for the relevant Facility for the relevant Capacity Year in accordance with Appendix 11.
- 4.10AB.4. The Network Operator must notify AEMO of any determination required under clause 4.10AB.3 within 2 Business Days after making the determination.
- 4.10AB.5. The Network Operator's determination under clause 4.10AB.3 must be consistent with the Wholesale Market Objectives.
- 4.10AB.6. Where the Network Operator requires information from AEMO to determine the Constrained Access Entitlement for a Constrained Access Facility:
- (a) AEMO must, where the information is reasonably available to it and within 2 Business Days of a request from the Network Operator, provide the Network Operator with any information requested by the Network Operator irrespective of the confidentiality status of that information under these WEM Rules;
  - (b) AEMO must inform the Network Operator of the confidentiality status of the information;
  - (c) the Network Operator must ensure that it maintains the confidentiality of the information in accordance with the confidentiality status informed by AEMO; and
  - (d) the Network Operator must ensure that the information is used only for the purpose for which it was provided.

#### **9. Section 4.13 amended**

- 9.1 Clause 4.13.10 is amended by inserting a full stop after the clause number so that it reads '4.13.10.'
- 9.2 Clause 4.13.10 is amended by deleting the words 'each component of'.
- 9.3 Clause 4.13.10(a)(i) is amended by deleting the words ', or component of a Facility,'.
- 9.4 Clause 4.13.10(a)(ii) is amended by deleting the words ', or component of a Facility,'.
- 9.5 Clause 4.13.10C is amended by inserting a full stop after the clause number so that it reads '4.13.10C.'
- 9.6 Clause 4.13.10C is amended by deleting the words 'a WEM Procedure' and replacing them with the words 'the relevant WEM Procedure'.
- 9.7 Clause 4.13.10C is amended by deleting the words ', or component of a Facility,' immediately after the words 'which the Facility'.

**10. Chapter 11 Glossary amended**

- 10.1 The definition for 'Constrained Access Entitlement' in Chapter 11 is amended by deleting the words 'clause 4.10A' and replacing them with the words 'section 4.10AB'.

**11. Appendix 11 amended**

- 11.1 Appendix 11 is amended by deleting the words 'clause 4.10A' and replacing them with the words 'section 4.10AB'.

- 11.2 Appendix 11 is amended by deleting Item 1 and replacing it with:

Item 1. The Network Operator must, for each relevant Constrained Access Facility, determine the Constrained Access Entitlement as either:

- 1.1 where that Facility was considered a Constrained Access Facility in any previous Reserve Capacity Cycle, the MW level of network access expected to be available to the Facility for at least 95% of the generation dispatch scenarios that could, applying the matters in items 2.3.1 and 2.6.1 of this Appendix (as applicable), occur to meet the Peak Demand on the SWIS for the relevant Capacity Year; or
- 1.2 where that Facility was not considered a Constrained Access Facility in any previous Reserve Capacity Cycle, the greater of:
  - a) the MW level of network access expected to be available to the Facility for at least 95% of the generation dispatch scenarios that could, applying the matters in items 2.3.1 and 2.6.1 of this Appendix (as applicable), occur to meet the Peak Demand on the SWIS for the relevant Capacity Year; or
  - b) where the Facility has previously been assigned Capacity Credits, the MW equivalent of the most recently assigned Capacity Credits.

11.3 Appendix 11 is amended by deleting clause 2.8(b)(ii) and replacing it with:

- ii. where the Facility, or an upgrade to the Facility, has not previously been assigned Capacity Credits—
  1. where the applicant for Certified Reserve Capacity in respect of the Facility, or an upgrade to the Facility, has nominated under clause 4.10.1(i) for the Facility, or an upgrade to the Facility, to be assessed under clause 4.11.2(b) (and AEMO has not rejected such nomination under clause 4.11.2(a)), the value determined in accordance with Appendix 9; or
  2. otherwise, the level of Certified Reserve Capacity the applicant has applied for in respect of the Facility, or an upgrade to the Facility, under clause 4.10.

#### **Schedule D**

**1. Section 4.10AB deleted**

1.1 Section 4.10AB is deleted.

#### **Schedule E**

**1. Section 4.11 amended**

1.1 Clause 4.11.1(bA) is amended by deleting the words 'is an Energy Producing System' and replacing them with the words 'contains an Energy Producing System'.

**2. Section 4.14 amended**

2.1 Clause 4.14.1C(d) is amended by deleting the words 'a Network Control Service Contract' and replacing them with 'an NCESS Contract'.

2.2 Clause 4.14.3 is amended by:

- (a) deleting the words 'must not make a submission under clause 4.14.1' and replacing them with the words 'holding Certified Reserve Capacity';
- (b) deleting the words 'a Network Control Service Contract' and replacing them with the words 'an NCESS Contract'; and
- (c) inserting the words 'must nominate all Certified Reserve Capacity under clause 4.14.1(c)' immediately after the words 'NCESS Contract'.

## **Schedule F**

### **1. Section 1.46 amended**

1.1 Insert the following new clause 1.46.1(b):

- (b) a Facility that is deemed to be an NAQ Facility (as defined in Appendix 3) under clause 1.46.1(a) is to be deemed to have a Network Access Quantity for the purposes of Step 3A(a) of Appendix 3, equal to:
  - i. for a Facility, other than a GIA Facility, the Initial Network Access Quantity determined by AEMO for the Facility under clause 4.1A.1; and
  - ii. for a GIA Facility, the Certified Reserve Capacity assigned to the Facility for the 2022 Reserve Capacity Cycle that is intended to be traded bilaterally in accordance with 4.14.1(c); and

### **2. Section 4.1A amended**

2.1 Clause 4.1A.2(a) is deleted and replaced with the following:

- (a) where the Facility, or a component of the Facility, has been assigned Certified Reserve Capacity using the methodology described in clause 4.11.2(b), the Certified Reserve Capacity assigned to the Facility for the 2022 Reserve Capacity Cycle that is intended to be traded bilaterally in accordance with 4.14.1(c); and

### **3. Section 4.15 amended**

3.1 Clause 4.15.3(a) is amended by deleting the words 'clause 4.4B.5(c)' and replacing them with the words 'clause 4.4B.3'.

3.2 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 (as described in clause 4.15.3(c));
  - (b) include Facilities with Certified Reserve Capacity for the relevant Reserve Capacity Cycle;
  - (c) ensure the sum of facility dispatch in each scenario equals peak demand (as described in clause 4.15.3(c));
  - (d) ensure a Facility is not dispatched to a level greater than the Certified Reserve Capacity for the Facility;
  - (e) subject to clause 4.15.5(d), account for any services that are required at peak demand to be provided by a Facility with Certified Reserve Capacity under an NCESS Contract; and

- (f) include any other factors specified in the WEM Procedure referred to in clause 4.15.17.

3.3 Clause 4.15.15(a) is deleted and replaced with the following:

- (a) a Facility, that is not assigned Certified Reserve Capacity using the methodology described in clause 4.11.2(b) and is assigned a quantity of Certified Reserve Capacity that is less than the Highest Network Access Quantity for the Facility for that Reserve Capacity Cycle, the Highest Network Access Quantity for the Facility is to be reduced to equal the quantity of Certified Reserve Capacity assigned to the Facility for that Reserve Capacity Cycle;

3.4 Clause 4.15.15(b) is amended by deleting the full stop at the end of the clause and replacing it with the words '; and'.

3.5 Insert the following new clause 4.15.15(c):

- (c) a Facility is not assigned Certified Reserve Capacity for the Reserve Capacity Cycle, the Highest Network Access Quantity for the Facility is to be reduced to zero.

#### **4. Section 4.20 amended**

4.1 Clause 4.20.5B is deleted and replaced with the following:

4.20.5B. The quantity of Capacity Credits assigned to a Facility f is equal to the sum of:

- (a) the Network Access Quantity determined by AEMO in accordance with section 4.15 for Facility f; and
- (b) the CC Uplift Quantity applicable to Facility f as determined and amended by AEMO in accordance with section 4.1A.

4.2 Clause 4.20.5C is deleted and replaced with the following:

4.20.5C. Where, for a Facility for a Reserve Capacity Cycle:

- (a) the Network Access Quantity determined for the Facility in accordance with section 4.15 is not greater than zero; or
- (b) a Network Access Quantity has not been determined for the Facility in accordance with section 4.15,

the Facility will not be eligible to be assigned a quantity of Capacity Credits under clause 4.20.5A(a) for that Reserve Capacity Cycle, including, to avoid doubt, a quantity equal to zero.

#### **5. Chapter 11 (Glossary) amended**

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

**GIA Facility:** A Facility that is, or will be, subject to an Arrangement for Access entered into or amended during the period, commencing 24 June 2017 and ending on the date and time specified in clause 4.1.11 as amended or extended by AEMO under clause 1.36B.6(g) for the 2022 Reserve Capacity Cycle, under which the Facility is not entitled to unconstrained access to the relevant Network for all of its capacity.

**Minimum Capacity Credits Quantity:** The minimum quantity of Capacity Credits a Market Participant requires to be assigned to a Facility or upgrade to the Facility for a Reserve Capacity Cycle for the Facility or upgrade to the Facility to participate in the Reserve Capacity Cycle.

## 6. Appendix 3 amended

6.1 The definition of X[a] in Appendix 3 is deleted.

6.2 The 'capacity requirement' of Availability Class 1 in Appendix 3 is amended to delete the words 'max(0,' and 'X[1])'.

6.3 The 'capacity requirement' of Availability Class 2 in Appendix 3 is amended to delete the words 'max(0,(' and '- X[2]) - max(0, X[1] - Q[1])'.

6.4 The definition of 'NAQ Facility' in Appendix 3 is amended by:

- (a) deleting the word 'or' in the first bullet point;
- (b) deleting the comma at the end of the second bullet point and replacing it with the words '; or';
- (c) inserting a third bullet point as follows:
  - o a Facility that has been assigned Certified Reserve Capacity and is subject to an NCESS Contract for the current Reserve Capacity Cycle,

6.5 Step 3A of Part A in Appendix 3 is deleted and replaced with the following:

Step 3A: Subject to the NAQ rules, using the Network Access Quantity Model determine the preliminary Network Access Quantity for each NAQ Facility and, where applicable, Indicative Network Access Quantity for each Indicative NAQ Facility, which is a value up to the minimum of:

- (a) the Network Access Quantity determined for the NAQ Facility or Indicative NAQ Facility in the Reserve Capacity Cycle immediately preceding the current Reserve Capacity Cycle, which, for an Early CRC Facility is deemed to be:
  - i. for an Early CRC Facility is deemed to be:

1. for an Early CRC Facility that is also a Network Augmentation Funding Facility, the preliminary Network Access Quantity determined for the Facility at Step 13(c)(i) in a previous Reserve Capacity Cycle; or
  2. for each other Early CRC Facility, the Indicative Network Access Quantity determined for the Facility in the Reserve Capacity Cycle immediately preceding the current Reserve Capacity Cycle; and
- ii. for an NAQ Facility subject to an NCESS Contract, that was not assigned a Network Access Quantity in the Reserve Capacity Cycle immediately preceding the current Reserve Capacity Cycle, is deemed to be the Certified Reserve Capacity for the NAQ Facility; and
- (b) the Certified Reserve Capacity for the NAQ Facility or Early Certified Reserve Capacity for the Indicative NAQ Facility,

then go to Step 3B.

6.6 Step 3B of Part A in Appendix 3 is deleted and replaced with the following:

Step 3B: Using the Network Access Quantity Model and, subject to the NAQ Rules, adjust the preliminary Network Access Quantity determined for an NAQ Facility under a prior step to a value up to the Highest Network Access Quantity for the NAQ Facility where this is greater than the preliminary Network Access Quantity determined for the NAQ Facility in a prior step and, where applicable, adjust the Indicative Network Access Quantity determined under a prior step for an Indicative NAQ Facility up to the Early Certified Reserve Capacity for the Indicative NAQ Facility,

then go to Step 3C.

6.7 Step 3C of Part A in Appendix 3 is deleted and replaced with the following:

Step 3C: Using the Network Access Quantity Model and, subject to the NAQ rules, adjust the preliminary Network Access Quantity determined for an NAQ Facility or Indicative Network Access Quantity for an Indicative NAQ Facility under a prior step to a value up to a value equal to the Certified Reserve Capacity for the NAQ Facility or Early Certified Reserve Capacity for an Indicative NAQ Facility, excluding, for the NAQ Facility, any associated Facility Upgrade, where this is greater than the preliminary Network Access Quantity determined in a prior step.

6.8 Step 3A of Part B in Appendix 3 is deleted and replaced with the following:

Step 3A: Subject to the NAQ rules, using the Network Access Quantity Model determine the preliminary Network Access Quantity for each NAQ Facility and, where applicable, Indicative Network Access Quantity for each Indicative NAQ Facility, which is a value up to the minimum of:

(a) the Network Access Quantity determined for the NAQ Facility or Indicative NAQ Facility in the Reserve Capacity Cycle immediately preceding the current Reserve Capacity Cycle, which, for an Early CRC Facility is deemed to be:

i. for an Early CRC Facility is deemed to be:

1. for an Early CRC Facility that is also a Network Augmentation Funding Facility, the preliminary Network Access Quantity determined for the Facility at Step 13(c)(i) in a previous Reserve Capacity Cycle; or

2. for each other Early CRC Facility, the Indicative Network Access Quantity determined for the Facility in the Reserve Capacity Cycle immediately preceding the current Reserve Capacity Cycle; and

ii. for an NAQ Facility subject to an NCESS Contract, that was not assigned a Network Access Quantity in the Reserve Capacity Cycle immediately preceding the current Reserve Capacity Cycle, is deemed to be the Certified Reserve Capacity for the NAQ Facility; and

(b) the Certified Reserve Capacity for the NAQ Facility or Early Certified Reserve Capacity for the Indicative NAQ Facility,

then go to Step 3B.

6.9 Step 3B of Part B in Appendix 3 is deleted and replaced with the following:

Step 3B: Using the Network Access Quantity Model and, subject to the NAQ Rules, adjust the preliminary Network Access Quantity determined for an NAQ Facility under a prior step to a value up to the Highest Network Access Quantity for the NAQ Facility where this is greater than the preliminary Network Access Quantity determined for the NAQ Facility in a prior step and, where applicable, adjust the Indicative Network Access Quantity determined under a prior step for an Indicative NAQ Facility up to the Early Certified Reserve Capacity for the Indicative NAQ Facility,

then go to Step 3C.

6.10 Step 3C of Part B in Appendix 3 is deleted and replaced with the following:

Step 3C: Using the Network Access Quantity Model and, subject to the NAQ rules, adjust the preliminary Network Access Quantity determined for an NAQ Facility or Indicative Network Access Quantity for an Indicative NAQ Facility under a prior step to a value up to a value equal to the Certified Reserve Capacity for the NAQ Facility or Early Certified Reserve Capacity for an Indicative NAQ Facility, excluding, for the NAQ Facility any associated Facility Upgrade, where this is greater than the preliminary Network Access Quantity determined in a prior step.

## **Schedule G**

### **1. Section 2.16 amended**

1.1 Clause 2.16.1 is deleted and replaced with the following:

2.16.1. AEMO is responsible for collection of, and providing access to, data in accordance with this section 2.16. AEMO must compile the data identified in the Market Surveillance Data Catalogue and provide access to that data to the Coordinator and the Economic Regulation Authority.

1.2 Clause 2.16.2A is amended by deleting the word '[Blank]' and replacing it with the following:

2.16.2A. By the New WEM Commencement Day, the Coordinator and the Economic Regulation Authority must:

- (a) 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; and
- (b) publish the combined list of data items provided to AEMO under clause 2.16.2A(a) on their respective websites.

1.3 Insert the following new clause 2.16.2B:

2.16.2B. By the New WEM Commencement Day, AEMO must provide access to all data items in the Market Surveillance Data Catalogue, including the items in the combined list of data items provided to AEMO under clause 2.16.2A(a), to the Coordinator and the Economic Regulation Authority.

1.4 Insert the following new clause 2.16.2D:

2.16.2D. The Coordinator or the Economic Regulation Authority may request access to historical versions of data items in the Market Surveillance Data Catalogue from AEMO. AEMO must provide access to historical versions of those data items to

both the Coordinator and the Economic Regulation Authority (regardless of who made the request), as soon as practicable.

1.5 Insert the following new clause 2.16.2E:

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 by:

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

1.6 Insert the following new clause 2.16.2F:

2.16.2F. On receipt of an updated combined list of data items under clause 2.16.2E(a) from the Coordinator or the Economic Regulation Authority, AEMO must update the Market Surveillance Data Catalogue, and advise both the Coordinator and the Economic Regulation Authority of the date on which access to the new data items will be available.

1.7 Delete clause 2.16.4.

1.8 Delete clause 2.16.5.

## **Schedule H**

### **1. Section 2.16 amended**

1.1 Clause 2.16.2 is deleted and replaced with the following:

2.16.2. AEMO must develop a Market Surveillance Data Catalogue, which identifies data to be compiled concerning the market.

1.2 Insert the following new clause 2.16.2C:

2.16.2C. Where AEMO does not provide access to all of the data items required to be provided to the Coordinator or the Economic Regulation Authority through the Market Surveillance Data Catalogue under clause 2.16.2B, AEMO must notify the Coordinator and the Economic Regulation Authority:

- (a) of the reasons why the data items are not available; and
- (b) when AEMO expects that the data items will be available to access in the Market Surveillance Data Catalogue.

1.3 Clause 2.16.3 is deleted and replaced with the following:

- 2.16.3. AEMO must maintain the Market Surveillance Data Catalogue, and must update it whenever it changes in accordance with clause 2.16.2E. AEMO must:
- (a) develop, maintain and provide access to a data dictionary for the data items in the Market Surveillance Data Catalogue contained in AEMO's WEM systems. The data dictionary must:
    - i. contain sufficient information to enable a reasonable person to understand and locate the data items contained in AEMO's WEM systems;
    - ii. define all data items, including a cross reference to the relevant WEM Rules under which the data is produced or exchanged;
    - iii. where applicable, provide details of any preprocessing or analysis applied to data items; and
    - iv. where applicable, provide a means of identifying any revisions of data items and the timing of any such revisions;
  - (b) maintain the accuracy and quality of all data items to which access is provided to the Coordinator and the Economic Regulation Authority in accordance with clause 2.16.2B; and
  - (c) where it becomes aware that any of the data items is incorrect or inconsistent, correct or make consistent, as applicable, the data item as soon as practicable.

## **Schedule I**

### **1. Section 1.47 added**

1.1 Insert the following new section 1.47:

#### **1.47. Specific Transitional Provisions – Registration from New WEM Commencement Day**

1.47.1. In this section 1.47:

**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.

1.47.2. With effect from the New WEM Commencement Day:

- (a) a Rule Participant registered in the Market Customer class, Market Generator class or Ancillary Service Provider class under these WEM Rules is deemed to be registered in the Market Participant class;

- (b) subject to clause 1.47.4, a Registered Facility that is registered to a Rule Participant in the Market Customer class or Market Generator class referred to in clause 1.47.2(a) is deemed to be registered under the Facility Class set out in clause 1.47.3;
- (c) subject to clause 1.47.4, a Facility registered as a single Facility under the Pre-Amended Rules, is deemed to be registered as a single Facility under the Post-Amended Rules; and
- (d) subject to clause 1.47.4, a Facility registered as an aggregated Facility under the Pre-Amended Rules, is deemed to be registered as an Aggregated Facility under the Post-Amended Rules.

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.

Facility Class as at the last Trading Interval immediately preceding the New WEM Commencement Day	Facility Class from the New WEM Commencement Day
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
Interruptible Load	Interruptible Load
Demand Side Programme	Demand Side Programme

1.47.4. For the purposes of clauses 1.47.2(b), 1.47.2(c) and 1.47.2(d), where any of the following conditions apply to a Registered Facility, the Market Participant for that Registered Facility must apply to AEMO to seek an assessment for an applicable Facility Class in accordance with the timeframe and processes specified in the WEM Procedure under clause 1.47.12:

- (a) the Registered Facility's System Size is anticipated to increase or decrease; and
- (b) the Market Participant considers that registration in a different Facility Class for that Registered Facility is more appropriate than the Facility Class deemed by clause 1.47.3.

- 1.47.5. AEMO must assess any application it receives under clause 1.47.4, in accordance with the WEM Procedure specified in clause 1.47.9.
- 1.47.6. When conducting an assessment under clause 1.47.5, where AEMO considers that the existing Facility Class assigned to that Registered Facility is no longer appropriate or another Facility Class is more appropriate, AEMO must assign that Registered Facility another Facility Class which must be a Facility Class specified in clause 2.29.1A.
- 1.47.7. A Market Participant intending to register a facility prior to the New WEM Commencement Day with an intended effective registration date on or after the New WEM Commencement Day, must apply to AEMO for a Facility Class assessment in accordance with the timeframe specified in the WEM Procedure referred to in clause 1.47.12.
- 1.47.8. A Market Participant applying to:
- (a) register a facility as an Aggregated Facility; or
  - (b) disaggregate an Aggregated Facility,
- prior to the New WEM Commencement Day with an intended effective date on or after the New WEM Commencement Day, must apply to AEMO for a Facility Class assessment in accordance with clause 1.47.7, and the timeframe specified in the WEM Procedure referred to in clause 1.47.9.
- 1.47.9. AEMO must assess an application it receives under clauses 1.47.7 or 1.47.8 and assign a Facility Class in accordance with the WEM Procedure referred to in clause 1.47.12.
- 1.47.10. AEMO may consult with, and request additional information or clarifications from, relevant Market Participants prior to making its determination under this section 1.47.
- 1.47.11. AEMO's determination of a Facility Class under this section 1.47 is final.
- 1.47.12. Before the New WEM Commencement Day, AEMO must develop a WEM Procedure specifying:
- (a) the information to be provided to AEMO, and the processes and timeframes a Market Participant must adhere to, when applying to AEMO for an assessment under clauses 1.47.4, 1.47.7 or 1.47.8;
  - (b) the process and timeframes AEMO must adhere to when conducting an assessment and assigning a Facility Class to a facility in respect of an application made under clauses 1.47.4, 1.47.7 or 1.47.8, which must take into account the Facility Technology Types comprising a facility; and
  - (c) the process and timeframes AEMO and Market Participants must adhere to with respect to consultations and requests under clause 1.47.10; and

(d) any other matters that AEMO considers are relevant to this section 1.47.

## 2. Section 1.48 added

2.1 Insert the following new section 1.48:

### 1.48. Specific Transitional Provisions – Intermittent Loads

1.48.1. In this section 1.48:

**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.

1.48.2. Notwithstanding clause 2.30B.1, a Non-Dispatchable Load or part of a Non-Dispatchable Load that was treated by AEMO as an Intermittent Load on the day before the New WEM Commencement Day is deemed to have met the requirements of clause 2.30B.2 for the relevant Non-Dispatchable Load or part of the Non-Dispatchable Load to be treated as an Intermittent Load from the New WEM Commencement Day.

1.48.3. An Energy Producing System that supplies an Intermittent Load referred to in clause 1.48.2 and was not registered as a Facility under the Pre-Amended Rules, will be deemed to be exempted from the requirement to register under clause 2.29.4 of the Post-Amended Rules.

1.48.4. For the avoidance of doubt, the purpose of clauses 1.48.2 and 1.48.3 is to clarify the status of Intermittent Loads under the Pre-Amended Rules on the New WEM Commencement Day and the clauses do not in any way constitute a perpetual exemption from complying with the obligations and requirements in section 2.30B of the Post-Amended Rules.

1.48.5. The Market Participant for an Intermittent Load referred to in clause 1.48.2 must provide the data specified in clauses 2.30B.3 to AEMO at least three months before the New WEM Commencement Day.

1.48.6. Notwithstanding clause 1.48.2, a Market Participant for a Facility containing an Intermittent Load must, where clause 2.30B.8E applies, register the Facility or apply for an exemption as required by clause 2.30B.8E.

1.48.7. Where a Market Participant registers a Facility containing an Intermittent Load referred to in clause 1.48.2 in accordance with clause 2.30B.8E, the Market Participant may elect to register the Facility as either:

(a) a Non-Scheduled Facility even where its System Size or Nominated Export Quantity would otherwise require it to register as a Semi-Scheduled or Scheduled Facility; or

- (b) a Semi-Scheduled Facility even where AEMO's controllability assessment would otherwise require it to register as a Scheduled Facility.

**3. Section 1.54A added**

3.1 Insert the following new section 1.54A:

**1.54A. Specific Transitional Provisions – Standing Data**

1.54A.1. Where a Rule Participant is required to provide new Standing Data or modify current Standing Data in respect to a Facility pursuant to the Tranches 2 and 3 Amending Rules (as defined in clause 1.43.1) or any other Amending Rules made by the Minister under regulation 7(5) of the WEM Regulations by a notice published in the Government Gazette prior to the New WEM Commencement Day, the Rule Participant must do so in accordance with the processes and by the times specified by AEMO under clause 1.54A.2.

1.54A.2. Not less than four months before the New WEM Commencement Day, AEMO must publish on the WEM Website:

- (a) the Standing Data required to be provided to AEMO for a Facility in relation to the Post-Amended Rules (as defined in clause 1.47.1); and
- (b) the form and manner in which the Standing Data referred to in clause 1.54A.2(a) is to be provided to AEMO.

**4. Section 2.22A amended**

4.1 Clause 2.22A.2A(d) is amended by deleting the words 'the Market Fee rate and System Operation Fee rate' and replacing them with the words 'Market Participant Market Fee rate'.

**5. Section 2.24 amended**

5.1 Clause 2.24.1(b) is deleted and replaced with the following:

- (b) Application Fees in accordance with section 2.33 and clauses 2.31.2, 4.9.3(c), 4.26.2CC and 4.28.9B; and

5.2 Clause 2.24.1(c) is deleted and replaced with the following:

- (c) a Reassessment Fee in accordance with clause 4.11.11.

**6. Section 2.27 amended**

6.1 Clause 2.27.1(a) is deleted and replaced with the following:

- (a) each connection point in their Networks at which any of the following is connected:
  - i. a Scheduled Facility;
  - iA. a Semi-Scheduled Facility;
  - ii. a Non-Scheduled Facility; or

- iii. [Blank]
- iv. [Blank]
- v. a Non-Dispatchable Load equipped with an interval meter; and

6.2 Clause 2.27.5(d) is deleted and replaced with the following:

- (d) a specific Loss Factor must be calculated for each:
  - i. Scheduled Facility;
  - iA. Semi-Scheduled Facility;
  - ii. Non-Scheduled Facility; and
  - iii. [Blank]
  - iv. [Blank]
  - v. Non-Dispatchable Load above 7000 kVA peak consumption;

6.3 Insert the following new clause 2.27.5A:

2.27.5A. For each Demand Side Programme and Interruptible Load, AEMO must use a Loss Factor of 1.

## 7. Section 2.28 amended

7.1 Clause 2.28.1(c) is amended by deleting the semi-colon and replacing it with a full stop.

7.2 Clause 2.28.3A is amended by deleting the word 'facilities' and replacing it with the word 'Facilities'.

7.3 Clause 2.28.3A(e) is deleted and replaced with the following:

- (e) include as part of the data provided to AEMO under this clause 2.28.3A:
  - i. all data provided to the Network Operator that is used for the purpose of modelling in relation to the SWIS by Market Participants, other generators, customers and storage providers, other Network Operators and any other source;
  - ii. all data relating to actual, committed or proposed modifications to the SWIS that the Network Operator reasonably considers are relevant to modelling in relation to the SWIS; and
  - iii. data relating to any Facility with a System Size which is less than 10 MW and is likely to be subject to constraints that may affect Power System Security and Power System Reliability.

7.4 Clause 2.28.3B is amended by deleting the word 'facility' in each place where it occurs and replacing it with the word 'Facility'.

- 7.5 Clause 2.28.3B(a) is amended by inserting the word 'either' immediately after the words 'applicable data'.
- 7.6 Clause 2.28.3B(a) is amended by inserting the words 'or as part of a Registered Generator Performance Standard' immediately after the words 'under clause 2.28.3A'.
- 7.7 Clause 2.28.3B(c) is amended by inserting the words 'where that Facility is not required to comply with the requirements under clause 3A.2.2,' immediately before the words 'request that the Network Operator'.
- 7.8 Clause 2.28.3B(d) is amended by inserting the words 'until either the Market Participant is compliant with clause 3A.2.2 or' immediately after the words 'or in a particular manner,'.
- 7.9 Clause 2.28.3B(d) is amended by deleting the word 'that' immediately after the words 'Network Operator has submitted'.
- 7.10 Clause 2.28.3B(d) is amended by inserting the word 'an' immediately before the words 'associated model validation report'.
- 7.11 Clause 2.28.3B(d) is amended by inserting the words 'under clause 2.28.3B(c),' immediately after the words 'associated model validation report'.
- 7.12 Clause 2.28.6 is amended by inserting the words 'a Facility containing' immediately after the word 'operates'.
- 7.13 Clause 2.28.7 is deleted and replaced with the following:
- 2.28.7. A person that owns, controls or operates a Facility containing an Energy Producing System with a System Size of less than 10 MW, but which equals or exceeds 5 MW, and is electrically connected to a transmission system or distribution system which forms part of the South West Interconnected System, or is electrically connected to that system, must apply to AEMO:
- (a) for registration as a Rule Participant in the Market Participant class; or
  - (b) for an exemption from the requirement to register as a Rule Participant in the Market Participant Class.
- 7.14 Insert the following new clause:
- 2.28.7A. AEMO must grant an exemption from the requirement to register as a Rule Participant in the Market Participant class for an application received under clause 2.28.7 unless AEMO determines, in accordance with the WEM Procedures specified in clauses 2.28.21 and 2.29.4N, that the Facility must be registered for the purposes of Power System Security and Power System Reliability, in which case, the relevant applicant under clause 2.28.7 must register as a Rule Participant in the Market Participant class and register the Facility in accordance with section 2.29.

7.15 Clause 2.28.8 is deleted and replaced with the following:

2.28.8. Subject to clauses 2.28.8A and 2.28.8B, a person who intends to own, control or operate a Facility with a System Size that is less than 5 MW and is or will be electrically connected to a transmission system or distribution system which forms part of the South West Interconnected System, or is electrically connected to that system is exempt from the requirement to register as a Rule Participant in the Market Participant class.

7.16 Insert the following new clause 2.28.8A:

2.28.8A. A person who intends to own, control or operate a Facility with a System Size that is less than 5 MW and is or will be electrically connected to the South West Interconnected System may register as a Market Participant.

7.17 Insert the following new clause 2.28.8B:

2.28.8B. Clause 2.28.8 does not apply where:

- (a) the Facility is required to be registered in a Facility Class in accordance with section 2.29; or
- (b) AEMO determines, in accordance with the WEM Procedure specified in clause 2.29.4N, that the Facility must be registered for the purposes of Power System Security and Power System Reliability.

7.18 Clause 2.28.9 is deleted and replaced with the following:

2.28.9. Where AEMO:

- (a) does not grant an exemption in respect of an application made under clause 2.28.7; or
- (b) determines that a Facility must be registered in accordance with clause 2.28.8B,

the person who owns, controls or operates the Facility must register as a Rule Participant in the Market Participant class.

7.19 Insert the following new clauses 2.28.9A, 2.28.9B, 2.28.9BA and 2.28.9C:

2.28.9A. Where a person who owns, controls or operates a Facility is exempt, under clause 2.29.4B or clause 2.29.4C, from the requirement to register the Facility and the person intends to make modifications to its Facility, which are likely to increase the System Size of the Facility or do not relate to routine maintenance or replacement of equipment, the person must notify AEMO as soon as practicable and provide details of the proposed modifications.

- 2.28.9B. Where AEMO receives a notification under clause 2.28.9A, AEMO must reassess the exemption in accordance with the exemption criteria and timeframes set out in the WEM Procedure referred to in clause 2.29.4N and AEMO must either:
- (a) confirm the exemption remains valid; or
  - (b) revoke the exemption,
- and notify the person who owns, controls or operates the Facility of the outcome.
- 2.28.9BA. Where AEMO revokes an exemption under clause 2.28.9B(b), the person who owns, controls or operates the relevant Facility must:
- (a) register as a Rule Participant in the Market Participant class; and
  - (b) register its Facility in the relevant Facility Class in accordance with section 2.29.
- 2.28.9C. AEMO may, at any time, revoke an exemption granted pursuant to clause 2.28.7A or clause 2.29.4B, if AEMO considers that the relevant Facility no longer meets the exemption criteria for the relevant exemption set out in the WEM Procedures referred to in clauses 2.28.21 and 2.29.4N.
- 7.20 Clause 2.28.13 is deleted and replaced with the following:
- 2.28.13. Subject to clauses 2.28.16 and 4.24.4, a person not covered by clauses 2.28.2 to 2.28.11 but who sells or purchases electricity or provides another electricity related service under these WEM Rules to or from AEMO, including, without limitation, a person who intends to provide or provides an Essential System Service, must register as a Rule Participant in the Market Participant class.
- 7.21 Clause 2.28.16 is amended by inserting the numerals '2.28.7' immediately after the numerals '2.28.6'.
- 7.22 Clause 2.28.16A(d) is deleted and replaced with the following:
- (d) The Applicant may revoke the appointment of the Intermediary by:
    - i. where the Applicant wishes to appoint a replacement Intermediary, giving notice of the revocation of the appointment of the current Intermediary to AEMO and, prior to giving such notice to AEMO:
      - 1. providing the notices referred to in clauses 2.28.16A(a)(i) and 2.28.16A(a)(ii) to AEMO; and
      - 2. obtaining AEMO's consent to be exempted from registration in accordance with clause 2.28.16; or
    - ii. where clause 2.28.16A(d)(i) does not apply:
      - 1. registering as a Rule Participant in the Market Participant class prior to revoking the appointment of the Intermediary; and

2. giving notice of the revocation of the appointment of the Intermediary to AEMO.

7.23 Clause 2.28.16A(e) is deleted and replaced with the following:

- (e) At 8:00 AM, 2 Business Days after AEMO receives notice of the revocation of the appointment of an Intermediary in accordance with clauses 2.28.16A(d)(i) or 2.28.16A(d)(ii), the Intermediary will cease to be considered the Applicant's Intermediary for the purposes of these WEM Rules and the Applicant will not be liable under clause 2.28.16A(b)(v) for any acts, omissions, statements, representations or notices of the Intermediary occurring after that time.

7.24 Clause 2.28.16A(g) is deleted and replaced with the following:

- (g) AEMO may permit the Applicant to designate the Intermediary as the Applicant's Intermediary with respect to one or more Facilities which the Applicant owns, operates or controls.

7.25 Insert the following new clause 2.28.16C:

2.28.16C. Where AEMO is reasonably satisfied the requirements of clause 2.30B.8B have been met, AEMO must exempt a person who owns, controls or operates a Facility containing an Intermittent Load from the requirement to register as a Rule Participant.

7.26 Clause 2.28.19 is amended by deleting the words 'A Rule Participant must' and replacing them with the words 'Any person intending to register as a Rule Participant or who is registered as a Rule Participant must'.

7.27 Insert the following new clauses 2.28.20 and 2.28.21:

2.28.20. AEMO must document the following in a WEM Procedure:

- (a) information that a Network Operator must provide to AEMO, for each of its Networks, including:
  - i. positive, negative and zero sequence network impedances for the network elements;
  - ii. information on the network topology;
  - iii. information on transmission circuit limits;
  - iv. information on security constraints;
  - v. overload ratings, including details of how long overload ratings can be maintained; and
  - vi. the short circuit capability of facility equipment;
- (b) the processes to be followed by a Network Operator to enable AEMO to access the information specified in clause 2.28.20(a);

- (c) technical and communication criteria that a Network Operator must meet with respect to AEMO's ability to access the information specified in clause 2.28.20(a); and
- (d) the processes to be followed by AEMO when accessing the information specified in clause 2.28.20(a).

2.28.21. AEMO must document the following in a WEM Procedure:

- (a) the criteria AEMO will use to determine whether or not to exempt persons from Rule Participant registration requirements in sections 2.28 and 2.30B, which must include assessment criteria for AEMO to ensure that granting an exemption from the requirement to register does not adversely affect Power System Security or Power System Reliability;
- (b) the processes to be followed by a Market Participant in applying for an exemption in respect of Rule Participant registration under sections 2.28 and 2.30B; and
- (c) the processes to be followed and criteria to be applied by AEMO in assessing, determining or revoking an exemption in respect of Rule Participant registration under sections 2.28 and 2.30B.

## **8. Section 2.29 amended**

8.1 Clause 2.29.1 is deleted and replaced with the following:

2.29.1. The Facility Technology Types are:

- (a) a distribution system;
- (b) a transmission system;
- (c) an Intermittent Generating System;
- (d) a Non-Intermittent Generating System;
- (e) an Electric Storage Resource; and
- (f) a Load.

8.2 Insert the following new clauses 2.29.1B and 2.29.1C:

2.29.1B. The following are Facilities for the purposes of these WEM Rules:

- (a) a transmission system;
- (b) a distribution system;
- (c) all Facility Technology Types that are connected behind a single network connection point or electrically connected behind two or more shared network connection points;
- (d) one or more Facilities described in clause 2.29.1B(c), aggregated under section 2.30 at an Electrical Location;
- (e) a Small Aggregation;

- (f) a Demand Side Programme; or
- (g) an Interruptible Load.

2.29.1C. AEMO's determination of a Facility Class under this section 2.29 is final.

8.3 Clause 2.29.2 is amended by deleting the word 'facility' and replacing it with the word 'Facilities'.

8.4 Insert the following new clause 2.29.2A:

2.29.2A. Notwithstanding clause 2.29.2, AEMO may allow registration of a Demand Side Programme and Interruptible Load at a common set of network connection points provided that:

- (a) the Demand Side Programme and the Interruptible Load are registered to the same Market Participant; or
- (b) the Market Participant for the Demand Side Programme and the Interruptible Load each provide evidence that their Facility is capable of meeting the obligations under clause 7.4.10.

8.5 Clause 2.29.3 is amended by deleting the numerals '2.29.9' and replacing them with the numerals '2.29.4M'.

8.6 Clause 2.29.4 is deleted and replaced with the following:

2.29.4. Subject to clauses 2.29.4M and 2.30B.8D, a person who owns, controls or operates a Facility containing an Energy Producing System with a System Size that equals or exceeds 10 MW and is electrically connected to a transmission system or distribution system which forms part of the South West Interconnected System, or is electrically connected to that system, must register the Facility as a Semi-Scheduled Facility or a Scheduled Facility.

8.7 Insert the following new clauses 2.29.4A to 2.29.4N:

2.29.4A. A person that owns, controls or operates a Facility containing an Energy Producing System with a System Size of less than 10 MW, but which equals or exceeds 5 MW, and is electrically connected to a transmission system or distribution system which forms part of the South West Interconnected System, or is electrically connected to that system, must apply to AEMO for an exemption from the requirement to register the Facility in a Facility Class where the person is not intending to register the Facility in a Facility Class.

2.29.4B. Where AEMO receives an application under clause 2.29.4A, AEMO must grant an exemption from the requirement to register the Facility in a Facility Class unless AEMO determines, in accordance with the WEM Procedure specified in clause 2.28.21, that the Facility must be registered in a Facility Class for the purposes of Power System Security and Power System Reliability.

- 2.29.4C. Subject to clause 2.29.4E, a person who intends to own, control or operate a Facility with a System Size that is less than 5 MW and is or will be electrically connected to a transmission system or distribution system which forms part of the South West Interconnected System, or is electrically connected to that system, is exempted from the requirement to register the Facility in a Facility Class.
- 2.29.4D. Clause 2.29.4C does not apply where AEMO determines, in accordance with the WEM Procedure specified in clause 2.28.21, that a Facility, containing an Energy Producing System, must be registered in a Facility Class for the purposes of Power System Security and Power System Reliability.
- 2.29.4E. A person who intends to own, control or operate a Facility with a System Size that is less than 5 MW, and is or will be electrically connected to the South West Interconnected System may apply to AEMO to register the Facility in a Facility Class.
- 2.29.4F. Where AEMO:
- (a) does not grant an exemption in respect to an application made under clause 2.29.4A; or
  - (b) determines that the Facility must be registered in accordance with clause 2.29.4D,
- the person who owns, controls or operates the Facility must register the Facility in a Facility Class.
- 2.29.4G. A person that owns, operates or controls a Facility with a System Size that is less than 10 MW may request the Facility to be registered as a Non-Scheduled Facility, a Scheduled Facility or a Semi-Scheduled Facility.
- 2.29.4H. AEMO must grant a request by a person that owns, operates or controls a Facility containing an Energy Producing System with a System Size less than 10 MW to register the Facility as a Non-Scheduled Facility, unless AEMO determines the Facility must be controllable for the purposes of Power System Security and Power System Reliability in accordance with the WEM Procedure referred to in clause 2.29.4N.
- 2.29.4I. If AEMO determines that a Facility containing an Energy Producing System must be controllable for the purposes of Power System Security and Power System Reliability, in accordance with the WEM Procedure pursuant to 2.29.4N or if a person requests to register their Facility as a Scheduled Facility or a Semi-Scheduled Facility under clause 2.29.4G, then AEMO must register the relevant Facility as either a Scheduled Facility or a Semi-Scheduled Facility in accordance with clause 2.29.4K and the WEM Procedure referred to in clause 2.29.4N.
- 2.29.4J. AEMO must not register a Facility with a System Size greater than or equal to 10 MW as a Non-Scheduled Facility.

- 2.29.4K. In determining whether a Facility should be registered as a Scheduled Facility or a Semi-Scheduled Facility, AEMO must take into account the extent to which the relevant Facility is controllable as follows:
- (a) a Scheduled Facility must be able to respond to a Dispatch Target from AEMO such that it can maintain its Injection or Withdrawal within its Tolerance Range for a specified period;
  - (b) a Semi-Scheduled Facility must be able to reduce the value of its Injection or increase the value of its Withdrawal to comply with a Dispatch Cap issued by AEMO.
- 2.29.4L. Where AEMO reasonably considers that further information is required to enable it to make a determination under clause 2.29.4K, AEMO may request the information from the relevant Market Participant and the Market Participant must provide the information to AEMO by the time specified in the request, which must not be less than 15 Business Days of receipt of AEMO's request. AEMO may extend the time specified in a request if it considers it is reasonably necessary to do so.
- 2.29.4M. AEMO may determine that a person is exempted from the requirement to register a Facility in accordance with this section 2.29. An exemption may be given subject to any conditions that AEMO considers appropriate.
- 2.29.4N. AEMO must document in a WEM Procedure:
- (a) the process AEMO will follow to assess a Facility's controllability where that assessment must take into account:
    - i. the controllability requirements specified for a Scheduled Facility and a Semi-Scheduled Facility in clause 2.29.4K;
    - ii. how reliably a Facility can follow Dispatch Instructions within its Tolerance Range; and
    - iii. any other information provided by a Market Participant, in response to a request by AEMO or otherwise, that supports the assessment of the Facility's controllability;
  - (b) the criteria AEMO will use to determine whether or not to exempt a Facility from Facility registration requirements in this section 2.29, which must include assessment criteria for AEMO to ensure that granting an exemption from the requirement to register does not adversely affect Power System Security or Power System Reliability;
  - (c) the processes to be followed by a Market Participant in applying for an exemption from the requirement to register a Facility under this section 2.29; and
  - (d) the processes to be followed and criteria to be applied by AEMO in assessing, determining or revoking an exemption in respect of Facility registration under this section 2.29 and section 2.30B; and

- (e) the processes to be followed in relation to applications for Intermittent Loads under section 2.30B.

8.8 Insert the following new heading immediately above clause 2.29.5:

**Non-Dispatchable Loads and the association and disassociation with Demand Side Programmes and Interruptible Loads**

8.9 Insert the following new clause 2.29.5AA:

2.29.5AA. A Market Participant that owns, controls or operates a Facility containing a Load may register the Facility as a Scheduled Facility if AEMO determines that the Facility meets the controllability requirements outlined in the WEM Procedure specified in clause 2.29.4N.

8.10 Clause 2.29.5B is deleted and replaced with the following:

2.29.5B. A Market Participant may apply to AEMO to associate a Non-Dispatchable Load with a Demand Side Programme or an Interruptible Load. The Market Participant must provide the following information to AEMO in support of the application:

- (a) if applicable, evidence satisfactory to AEMO that the Market Participant owns the Non-Dispatchable Load or has entered into a contract with the person who owns, operates or controls the Non-Dispatchable Load to provide curtailment on request by the Market Participant;
- (b) the network connection point of the Non-Dispatchable Load;
- (bA) the Transmission Node Identifier for the Non-Dispatchable Load;
- (c) the expected Minimum Consumption of the Non-Dispatchable Load in units of MW;
- (d) if the Market Participant requesting the association owns, controls or operates the relevant Non-Dispatchable Load, then the start date and end date of the Non-Dispatchable Load association proposed by the Market Participant; and
- (e) if the Market Participant requesting the association has entered into a contract with a person who owns, controls or operates the relevant Non-Dispatchable Load, then the contract start date and contract end date.

8.11 Insert the following new clause 2.29.5CA:

2.29.5CA. Where an applicant receives a request for information from AEMO under clause 2.29.5C and does not provide the information to AEMO within 20 Business Days from the date of AEMO's request, the applicant will be deemed to have withdrawn the application.

8.12 Clause 2.29.5E is deleted and replaced with the following:

- 2.29.5E. AEMO must accept an application submitted under clause 2.29.5B unless:
- (a) AEMO considers that the evidence provided by the Market Participant under clauses 2.29.5B and 2.29.5C is not satisfactory;
  - (b) the relevant Non-Dispatchable Load is not equipped with interval metering;
  - (c) [Blank]
  - (d) for an application relating to a Demand Side Programme, the relevant Non-Dispatchable Load is registered as an Intermittent Load for any part of the proposed Association Period;
  - (e) subject to clause 2.29.2A, the relevant Non-Dispatchable Load is already associated with a Demand Side Programme or an Interruptible Load registered to a different Market Participant for any part of the proposed Association Period;
  - (f) during the same Capacity Year, the relevant Non-Dispatchable Load was an Associated Load of another Demand Side Programme and, while it was so associated:
    - i. the other Demand Side Programme passed a Reserve Capacity Test or a Verification Test; or
    - ii. any part of DSM Reserve Capacity Security associated with the other Demand Side Programme was returned or relinquished under:
      - 1. clause 4.13A.19 by operation of clause 4.13A.18; or
      - 2. clause 4.13A.24; or
  - (g) the Transmission Node Identifier for the relevant Non-Dispatchable Load does not match the single Transmission Node Identifier for the Demand Side Programme.

8.13 Clause 2.29.5F is deleted and replaced with the following:

- 2.29.5F. If AEMO accepts an application in accordance with clause 2.29.5D then AEMO must include in its notification to the applicant:
- (a) the date and time from which the relevant Non-Dispatchable Load will be associated with the Demand Side Programme or Interruptible Load, as applicable, as defined under clause 2.29.5G(a); and
  - (b) the date and time from which the relevant Non-Dispatchable Load will cease to be associated with the Demand Side Programme or Interruptible Load, as applicable, as defined under clause 2.29.5G(b).

8.14 Clause 2.29.5G is deleted and replaced with the following:

- 2.29.5G If AEMO accepts an application submitted under clause 2.29.5B then AEMO must associate the relevant Non-Dispatchable Load (“**Associated Load**”) with the

Demand Side Programme or Interruptible Load, as applicable, for the period (“**Association Period**”) between:

- (a) the start date, which is the latest of:
  - i. if the Market Participant making the application owns, controls or operates the relevant Non-Dispatchable Load, the start of the Trading Day commencing on the start date provided under clause 2.29.5B(d); or
  - ii. if the Market Participant making the application has entered into contract with the person who owns, controls or operates the relevant Non-Dispatchable Load, the contract start date provided under clause 2.29.5B(e); or
  - iii. the start of the Trading Day following the day that AEMO notifies the applicant of its decision under clause 2.29.5D to accept the application submitted under clause 2.29.5B; and
- (b) the end date is:
  - i. if the Market Participant making the application owns, controls or operates the relevant Non-Dispatchable Load, the end of the Trading Day for the end date provided under clause 2.29.5B(d); or
  - ii. if the Market Participant making the application has entered into a contract with the person who owns, controls or operates the relevant Non-Dispatchable Load, the end of the Trading Day for the contract end date provided under clause 2.29.5B(e).

8.15 Clause 2.29.5H is deleted and replaced with the following:

2.29.5H. If AEMO rejects an application submitted under clause 2.29.5B, then AEMO must include in its notification to the applicant under clause 2.29.5D the reasons for the rejection of the application. A Market Participant whose application is rejected may reapply to associate a Non-Dispatchable Load with a Demand Side Programme or Interruptible Load, as applicable, under clause 2.29.5B.

8.16 Clause 2.29.5I is deleted and replaced with the following:

2.29.5I. A Market Participant with an Associated Load may apply to AEMO to:

- (a) cancel the association of the relevant Non-Dispatchable Load with the Demand Side Programme or Interruptible Load, as applicable; or
- (b) reduce the Association Period of the Associated Load.

8.17 Clause 2.29.5K is deleted and replaced with the following:

2.29.5K. AEMO must determine whether to accept or reject an application submitted under clause 2.29.5I and notify the applicant of its decision within two Business Days of the receipt of the application. AEMO must accept the application unless the

proposed change would affect the association of the relevant Non-Dispatchable Load with the Demand Side Programme or Interruptible Load, as applicable, during any period before the Trading Day commencing on the third Business Day after the receipt of the application.

8.18 Clause 2.29.5L is deleted and replaced with the following:

2.29.5L. If AEMO accepts an application submitted under clause 2.29.5I then it must either:

- (a) cancel the association of the relevant Non-Dispatchable Load with the Demand Side Programme or Interruptible Load, as applicable; or
- (b) reduce the Association Period of the Associated Load,  
as requested in the application.

8.19 Clause 2.29.5LB is amended by inserting the words 'or Interruptible Load' immediately after the words 'Demand Side Programme'.

8.20 Insert the following new clause 2.29.5N:

2.29.5N. AEMO must document in a WEM Procedure:

- (a) the process to be followed by a Market Participant and the information to be provided to AEMO for an application to associate, disassociate or reduce the Association Period of a Non-Dispatchable Load with a Demand Side Programme or an Interruptible Load under clauses 2.29.5B and 2.29.5I; and
- (b) the process to be followed by AEMO in respect to accepting or rejecting an application to associate, disassociate or reduce the Association Period of a Non-Dispatchable Load with a Demand Side Programme or an Interruptible Load under clauses 2.29.5B and 2.29.5I.

8.21 Clause 2.29.6 is deleted and replaced with the following:

2.29.6. A Market Participant must submit an application in accordance with clause 2.33.8 for a Facility Class reassessment on becoming aware that:

- (a) the System Size of its Non-Scheduled Facility is or will be greater than 10 MW; or
- (b) the Facility Class that the Facility is registered in does not reflect the Facility's controllability.

8.22 Clause 2.29.7 is deleted and replaced with the following:

2.29.7. AEMO must process a Facility Class reassessment application it receives in accordance with section 2.31.

8.23 Insert the following new clause 2.29.7A:

2.29.7A. AEMO may from time to time conduct a review to assess whether a Registered Facility continues to meet the obligations under these WEM Rules and WEM Procedures for the Facility Class in which it is registered.

8.24 Clause 2.29.8 is deleted and replaced with the following:

2.29.8. Where AEMO considers that a Facility no longer meets the requirements of the Facility Class it is registered in, AEMO may register the Facility in a different Facility Class.

8.25 Clause 2.29.9 is deleted and replaced with the following:

2.29.9. AEMO must document in a WEM Procedure:

- (a) the processes AEMO will use to:
  - i. determine whether a Facility should be assigned to a different Facility Class; and
  - ii. assign a Facility to a different Facility Class; and
- (b) the processes a Market Participant must follow where:
  - i. the Market Participant provides information to AEMO under clause 2.29.6; or
  - ii. AEMO notifies the Market Participant of its intention to assess whether the Facility continues to meet the requirements of the Facility Class in which it is registered.

8.26 Clauses 2.29.10 and 2.29.11 are amended by deleting the contents of them and replacing them with '[Blank]'.

## **9. Section 2.30 amended**

9.1 Clause 2.30.1 is deleted and replaced with the following:

2.30.1. A Rule Participant, or an applicant for rule participation, may apply to AEMO to allow the registration of an Aggregated Facility.

9.2 Clause 2.30.2 is amended by deleting the contents of it and replacing them with '[Blank]'.

9.3 Clause 2.30.5 is deleted and replaced with the following:

2.30.5. AEMO must only allow the aggregation of Facilities pursuant to an application under clause 2.30.1 if, in its opinion, the proposed Aggregated Facility meets the following criteria:

- (a) the proposed Aggregated Facility will not adversely impact on AEMO's ability to ensure Power System Security and Power System Reliability are maintained;

- (b) the Market Participant for the proposed Aggregated Facility provides Standing Data for:
  - i. each individual Facility that would be required to be provided if each Facility was registered separately; and
  - ii. the Aggregated Facility as a whole;
- (c) adequate control and monitoring equipment exists for the proposed Aggregated Facility; and
- (d) the Facilities within the proposed Aggregated Facility are at the same Electrical Location;
- (e) [Blank]
- (f) the Facility Monthly Reserve Capacity Price applicable to each of the Facilities within the proposed Aggregated Facility is the same, and is expected to remain the same, from and including the current Reserve Capacity Cycle;
- (g) either:
  - i. the System Size of the proposed Aggregated Facility as determined by AEMO will not affect the quantity of Frequency Co-optimised Essential Services required to be dispatched; or
  - ii. the Facility Contingency associated with the proposed Aggregated Facility affects each individual Facility in the proposed aggregation simultaneously;
- (h) if the proposed Aggregated Facility intends to provide Frequency Co-optimised Essential System Services, the capability to simultaneously provide energy and Frequency Co-optimised Essential Services from the individual Facilities in the proposed aggregation can be adequately derived for the proposed Aggregated Facility; and
- (i) the Aggregated Facility will be registered as a Scheduled Facility, Semi-Scheduled Facility or a Non-Scheduled Facility.

9.4 Insert the following new clauses 2.30.5A, 2.30.5B, 2.30.5C and 2.30.5D:

2.30.5A. If a single Credible Contingency Event other than a Network Contingency would result in the disconnection of two or more Facilities, then the Market Participant responsible for each of the Facilities must apply to AEMO to aggregate the relevant Facilities into an Aggregated Facility.

2.30.5B. If two or more Facilities are electrically connected behind multiple connection points, such that one or more of those Facilities could Inject into or Withdraw from the Network at more than one of the network connection points, and one or more of the Facilities is registered or AEMO has received an application to register one or more of the Facilities, then AEMO must aggregate the relevant Facilities into an Aggregated Facility.

- 2.30.5C. Subject to clause 2.30.5D, if a Facility containing an Energy Producing System with a System Size that equals or exceeds 10 MW has a Parasitic Load which is located at a network connection point other than the network connection point at which the Energy Producing System is located, then AEMO may require the Market Participant for the relevant Facilities to apply to aggregate the Facilities into an Aggregated Facility under clause 2.30.1.
- 2.30.5D. Where AEMO considers that clauses 2.30.5A, 2.30.5B or 2.30.5C apply to an application for registration of a Facility under section 2.29, AEMO must notify the relevant Market Participant of the requirement to register the Facilities as an Aggregated Facility.
- 9.5 Clauses 2.30.6 and 2.30.7 are deleted and replaced with the following:
- 2.30.6. If the individual Facilities forming part of an Aggregated Facility have their own meters, and there is no single meter for the entire Aggregated Facility, then the settlement meter data for the Aggregated Facility must be the sum of the meter readings for its component Facilities for the purposes of clause 9.5.1. is taken to be treated as a single Facility for the purpose of these WEM Rules.
- 2.30.7. If AEMO approves the aggregation of Facilities then, that Aggregated Facility must be registered as a single Facility for the purpose of these WEM Rules, and the aggregation will take effect from the date of that registration.
- 9.6 Clause 2.30.7A is deleted.
- 9.7 Clause 2.30.8 is deleted and replaced with the following:
- 2.30.8. Where AEMO considers that a change in one or more of the criteria in clause 2.30.5 means that an Aggregated facility should no longer be aggregated, AEMO must notify the relevant Rule Participant of:
- (a) its decision and the reasons for its decision; and
  - (b) the date on which the Aggregated Facility will be considered to have been disaggregated.
- 9.8 Insert the following new clause 2.30.8A:
- 2.30.8A. Where AEMO has notified a Market Participant under clause 2.30.8 that an Aggregated Facility should no longer be aggregated, AEMO may reassess the Facility Class in which each individual Facility is registered in accordance with clause 2.29.9.
- 9.9 Clause 2.30.9 is deleted and replaced with the following:
- 2.30.9. Where a Rule Participant no longer wishes to operate a Facility as an Aggregated Facility from a specified date, the Rule Participant may apply to AEMO to

disaggregate the Facilities from that specified date in accordance with the WEM Procedure referred to in clause 2.31.25 and section 2.33.

9.10 Clause 2.30.10 is deleted and replaced with the following:

2.30.10. Where an Aggregated Facility is disaggregated in accordance with clauses 2.30.8 or 2.30.9:

- (a) the relevant Rule Participant must ensure each disaggregated Facility is registered in accordance with the process outlined in section 2.31, as a separate Facility for the purpose of these WEM Rules from the date specified by AEMO or the Rule Participant, as applicable; and
- (b) AEMO may require the Rule Participant to provide Standing Data relevant to each disaggregated Facility.

**10. Section 2.30B amended**

10.1 Clause 2.30B.2 is deleted and replaced with the following:

2.30B.2. For a Load or part of a Load to be eligible to be an Intermittent Load AEMO must be satisfied that the following conditions are met:

- (a) an Energy Producing System must have the following characteristics:
  - i. it can typically supply the maximum quantity of energy consumed by that Load to be treated as Intermittent Load without requiring energy to be withdrawn from a Network; and
  - ii. the output of which is netted off consumption of the Load by the meter measuring consumption of the Load, or which is always or at times electrically connected to the Load behind two or more shared network connection points;
- (b) the Intermittent Load shall reasonably be expected to have net consumption of energy (based on Metered Schedules calculated in accordance with the methodology prescribed in clauses 2.30B.10 or 2.30B.11) for not more than 4320 Trading Intervals in any Capacity Year, excluding Trading Intervals in which the Facility containing the Load is delivering a service under an NCESS Contract;
- (c) the Market Participant for the Facility containing the Load must have an agreement in place with a Network Operator to allow energy to be supplied to the Load from a Network;
- (d) [Blank]
- (e) the Facility containing the Load is not expected (based on applications accepted by AEMO under clause 2.29.5D and any amendments accepted by AEMO under clause 2.29.5K) to be associated with any Demand Side Programme for any period following the registration of the Load or part of the Load as an Intermittent Load; and

- (f) the Facility containing the Load is connected to the transmission network registered by the Network Operator referred to in clause 2.30B.2(c).

10.2 Clause 2.30B.3 is deleted and replaced with the following:

2.30B.3. The Market Participant for a Load or part of a Load to be treated as an Intermittent Load must, in addition to any Standing Data for the Facility containing the Load, provide, and ensure remains accurate, the following data in regard to the Facility:

- (a) the maximum capacity in MW, excluding capacity for which Capacity Credits are held, that the Energy Producing System referred to in clause 2.30B.2(a) can be guaranteed to have available to supply Intermittent Load, when it is operated normally at an ambient temperature of 41 degrees Celsius;
- (b) where the Load is and continues to be deemed to be an Intermittent Load under clause 1.48.2:
  - i. the anticipated reduction, measured in MW, in the maximum capacity described in clause 2.30B.3(a) when the ambient temperature is 45 degrees Celsius;
  - ii. at the option of the Market Participant, the method to be used to measure the ambient temperature at the site of the Energy Producing System referred to in clause 2.30B.2(a) for the purpose of determining Intermittent Load Refunds, where the method specified may be either:
    - 1. a publicly available daily maximum temperature at a location representative of the conditions at the site of the Energy Producing System as reported daily by a meteorological service; or
    - 2. a daily maximum temperature measured at the site of the Energy Producing System by the SCADA system operated by AEMO or the relevant Network Operator (as applicable),

where no method is specified, a temperature of 41 degrees Celsius will be assumed; and

- (c) details of primary and any alternative fuels, including details and evidence of both firm and non-firm fuel supplies and the factors that determine restrictions on fuel availability that could prevent the Energy Producing System referred to in clause 2.30B.2(a) from operating at its full capacity;
- (d) a single line diagram which includes details of the Loads and Energy Producing Systems contained within the Facility and any other information AEMO requires to determine whether the Load meets the conditions specified in clause 2.30B.2;
- (e) the Nominated Excess Capacity;

- (f) the Declared Sent Out Capacity and any other information AEMO requires to determine the System Size of the Facility;
- (g) at the option of the Market Participant, information regarding protection schemes at the Facility, including whether the Facility is configured to automatically adjust load or generation where a Contingency Event, or an event behind the relevant connection point, affects the Energy Producing System, and evidence to support that configuration as required in the WEM Procedure referred to in clause 2.28.21;
- (h) the instantaneous output or consumption of the Energy Producing System referred to in clause 2.30B.2(a) measured in accordance with the WEM Procedure referred to in clause 2.36A.5, with separate measurements for each separate electricity producing unit in the Energy Producing System;
- (i) the maximum level of Intermittent Load for the Facility referred to in Appendix 1(f)(vii); and
- (j) the Contract Maximum Demand associated with the Facility.

10.3 Clause 2.30B.4 is amended by deleting the contents of it and replacing them with '[Blank]'.

10.4 Clause 2.30B.5 is deleted and replaced with the following:

2.30B.5. A Market Participant may apply for a Load or part of a Load to be treated as an Intermittent Load where the Market Participant has submitted or changed Standing Data for the Facility in accordance with clause 2.34.2B(b) and:

- (a) the Load is part of a Non-Dispatchable Load; or
- (b) the Load is part of a Registered Facility.

The application must include the information in clause 2.30B.3, except for clause 2.30B.3(h).

10.5 Clause 2.30B.6 is deleted and replaced with the following:

2.30B.6. AEMO must accept an application for a Load or part of a Load to be treated as an Intermittent Load if the requirements of clause 2.30B.2 are satisfied.

10.6 Clause 2.30B.6A is deleted.

10.7 Clause 2.30B.7 is amended by deleting the word 'Month' and replacing it with the word 'Week'.

10.8 Clause 2.30B.8 is deleted and replaced with the following:

2.30B.8. Subject to clause 2.30B.8A, where a Market Participant seeks to increase the absolute value of the quantities provided under clauses 2.30B.3(i) or 2.30B.3(j) by more than 10 MW from the quantities in effect for that Intermittent Load on the New WEM Commencement Day, the Market Participant must make a new application

under clause 2.30B.5 for the Load to be treated as an Intermittent Load, and clause 1.48.2 will no longer apply to the Load.

10.9 Insert the following new clauses 2.30B.8A to 2.30B.8F (inclusive):

2.30B.8A. Where AEMO determines that an increase in the absolute value of the quantities provided under clauses 2.30B.3(i) or 2.30B.3(j) is necessary to implement the terms of a NCESS Contract, clause 2.30B.8 does not apply to the Intermittent Load.

2.30B.8B. A person who owns, controls or operates a Facility containing an Intermittent Load may apply to AEMO to be exempted from the requirement to register as a Rule Participant in the Market Participant class in accordance with clause 2.28.16C, where:

- (a) the person has submitted an application for another Market Participant to act as their Intermediary in accordance with clause 2.28.16A(a); and
- (b) where the consumption or generation from the metered meter or meters measuring the relevant Facility containing the Intermittent Load is registered to the Intermediary for the purposes of clause 8.3.1.

2.30B.8C. Without limiting AEMO's rights to revoke an exemption under clause 2.28.16, AEMO may revoke an exemption to register that was based on the conditions specified in clause 2.28.16C where AEMO considers that any of the conditions specified in clause 2.30B.8B are no longer satisfied.

2.30B.8D. Notwithstanding clause 2.29.4, where AEMO has accepted an application under clause 2.30B.6 for a Facility with a Nominated Excess Capacity of less than 10 MW, AEMO must determine (under clause 2.29.4M) that the person who owns, controls or operates the Facility is exempted from the requirement to register the Facility.

2.30B.8E. Where a Facility containing an Intermittent Load has a Nominated Excess Capacity greater than or equal to 10 MW, the relevant Market Participant must register the Facility in accordance with section 2.29, or apply to be exempted from the requirement to register.

2.30B.8EA. Where a Market Participant registers a Facility in accordance with clause 2.30B.8E, AEMO must assess the application in respect of the export capability of the Facility only, regardless of the System Size of the Energy Producing System referred to in clause 2.30B.2(a).

2.30B.8F. Where the Injection of a Facility containing an Intermittent Load exceeds the Nominated Excess Capacity in more than 120 Dispatch Intervals in any 12-month period, the Market Participant must update the Nominated Excess Capacity provided under clause 2.30B.3(e) to reflect the maximum Injection.

10.10 Clause 2.30B.9 is deleted and replaced with the following:

2.30B.9. For the purpose of defining Metered Schedules, each Facility containing an Intermittent Load is represented by the following components:

- (a) where the Intermittent Load is part of a Registered Facility, a Registered Facility component;
- (b) where the Load was deemed to be an Intermittent Load under clause 1.48.2, an Intermittent Load component; and
- (c) a remaining Load component, which may be Temperature Dependent or Non-Temperature Dependent.

10.11 Clause 2.30B.10 is deleted and replaced with the following:

2.30B.10. Where the Load was deemed to be an Intermittent Load under clause 1.48.2, for the purpose of defining Metered Schedules associated with the interval meter measuring the Facility containing the Intermittent Load, the following methodology is to apply:

- (a) Define for each Trading Interval:
  - i. NMQ to be the net metered energy measured by the meter where a positive amount indicates supply and a negative amount indicates consumption;
  - ii. NS to be the net supply (supply as a positive value plus consumption as a negative value) measured by the Intermittent Load meter which corresponds to supply and consumption, excluding consumption by Intermittent Loads, by Market Participants, and by Market Participant Facilities which are separately metered for the purpose of settlement under these WEM Rules. This may have a positive or negative value;
  - iii. NL to be the maximum possible consumption behind that meter due to consumption which is not Intermittent Load but which is measured only by the meter which also measures the Intermittent Load. This has a negative value;
  - iv. [Blank];
  - v. if the Load is part of a Registered Facility, MSG to be the greater of zero and the maximum energy output from the Registered Facility in excess of that required to supply the Intermittent Load based on Standing Data and measured only by the Intermittent Load meter. This has a positive value;
  - vi. AMQ to be the adjusted meter quantity which equals  $NMQ - NS$ ;
- (b) if the Load is not part of a Registered Facility then:
  - i. if AMQ is less than or equal to NL then:

1. for the purpose of defining its Metered Schedule the metered quantity associated with the Intermittent Load is AMQ minus NL;
  2. for the purpose of defining its Metered Schedule the metered quantity associated with non-Intermittent Loads only measured by the Intermittent Load meter is NL;
- ii. if AMQ is greater than NL but less than zero then:
1. for the purpose of defining its Metered Schedule the metered quantity associated with the Intermittent Load is zero;
  2. for the purpose of defining its Metered Schedule the metered quantity associated with non-Intermittent Loads only measured by the Intermittent Load meter is AMQ;
- iii. if AMQ is greater than or equal to zero then:
1. for the purpose of defining its Metered Schedule the metered quantity associated with the Intermittent Load is AMQ;
  2. for the purpose of defining its Metered Schedule the metered quantity associated with non-Intermittent Loads only measured by the Intermittent Load meter is zero;
- (c) if the Load is part of a Registered Facility then:
- i. if AMQ is less than or equal to NL then:
1. for the purpose of defining its Metered Schedule the metered quantity associated with the Intermittent Load is AMQ minus NL;
  2. for the purpose of defining its Metered Schedule the metered quantity associated with non-Intermittent Loads measured only by the meter that also measures the Intermittent Load is NL;
  3. for the purpose of defining its Metered Schedule the metered quantity associated with the Registered Facility measured only by the meter that also measures the Intermittent Load is zero;
- ii. if AMQ is greater than NL but less than or equal to zero then:
1. for the purpose of defining its Metered Schedule the metered quantity associated with the Intermittent Load is zero;
  2. for the purpose of defining its Metered Schedule the metered quantity associated with non-Intermittent Loads measured only by the meter that also measures the Intermittent Load is AMQ;

3. for the purpose of defining its Metered Schedule the metered quantity associated with the Registered Facility measured only by the meter that also measures the Intermittent Load is zero;
- iii. if AMQ is greater than zero but less than or equal to MSG then:
1. for the purpose of defining its Metered Schedule the metered quantity associated with the Intermittent Load is zero;
  2. for the purpose of defining its Metered Schedule the metered quantity associated with non-Intermittent Loads measured only by the meter that also measures the Intermittent Load is zero;
  3. for the purpose of defining its Metered Schedule the metered quantity associated with the Registered Facility measured only by the meter that also measures the Intermittent Load is AMQ;
- iv. if AMQ is greater than MSG then:
1. for the purpose of defining its Metered Schedule the metered quantity associated with the Intermittent Load is AMQ minus MSG;
  2. for the purpose of defining its Metered Schedule the metered quantity associated with non-Intermittent Loads measured only by the meter that also measures the Intermittent Load is zero;
  3. for the purpose of defining its Metered Schedule the metered quantity associated with the Registered Facility measured only by the meter that also measures the Intermittent Load is MSG.

10.12 Clause 2.30B.11 is deleted and replaced with the following:

2.30B.11 Where an application for a Load or part of a Load to be treated as an Intermittent Load was accepted by AEMO under clause 2.30B.6 on or after the New WEM Commencement Day, for the purpose of defining Metered Schedules associated with the interval meter measuring the Facility containing the Intermittent Load, the following methodology is to apply:

- (a) define for each Trading Interval:
  - i. NMQ to be the net metered energy measured by the meter in Meter Data Submissions where a positive amount indicates supply and a negative amount indicates consumption;
  - ii. NS to be the net supply (supply as a positive value plus consumption as a negative value) measured by the Intermittent

Load meter which corresponds to supply and consumption, excluding consumption by Intermittent Loads, by Market Participants, and by Market Participant Facilities which are separately metered in Meter Data Submissions for the purpose of settlement under these WEM Rules. This may have a positive or negative value;

- iii. AMQ to be the adjusted meter quantity which equals NMQ less NS;
- (b) where the Intermittent Load is part of a Registered Facility:
- i. where AMQ is positive, indicating supply:
    - 1. the Metered Schedule for the Registered Facility is AMQ; and
    - 2. the Metered Schedule for the Non-Dispatchable Load is zero; or
  - ii. where AMQ is negative, indicating consumption:
    - 1. the Metered Schedule for the Registered Facility is zero; and
    - 2. the Metered Schedule for the Non-Dispatchable Load is AMQ; or
- (c) where the Intermittent Load is not part of a Registered Facility, the Metered Schedule for the Non-Dispatchable Load is AMQ.

10.13 Delete clauses 2.30B.12 and 2.30B.13.

**11. Section 2.30C amended**

11.1 Clause 2.30C.1 is deleted and replaced with the following:

2.30C.1. Subject to sections 1.47, 1.48, 1.49 and 1.54A, AEMO must not require that an applicant for Rule Participant registration or Facility registration provide information on any application form, or evidence to support that application form, pertaining to registration if the applicable WEM Rules requiring that information to be provided have not commenced.

**12. Section 2.31 amended**

12.1 Clause 2.31.1 is deleted and replaced with the following:

2.31.1. AEMO must maintain the following forms on the WEM Website:

- (a) Rule Participant registration form;
- (b) Rule Participant de-registration form;
- (c) Facility registration form;
- (d) Facility de-registration form;

- (e) Facility transfer form;
- (f) Facility aggregation form;
- (g) Facility disaggregation form; and
- (h) Facility Class reassessment form.

12.2 Clause 2.31.2 is deleted and replaced with the following:

2.31.2. A person intending to submit an application described in clause 2.31.1 must provide the information specified in section 2.33, as applicable, and any applicable Application Fees to AEMO.

12.3 Clause 2.31.4A is deleted and replaced with the following:

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.

12.4 Clause 2.31.5 is deleted and replaced with the following:

2.31.5. AEMO may consult with the relevant Network Operators with respect to applications for registration, de-registration, transfer or Facility Class reassessment of Facilities containing Energy Producing Systems or Loads.

12.5 Clause 2.31.6 is deleted and replaced with the following:

2.31.6. In the case of an application for Facility registration, AEMO must notify an applicant within 15 Business Days from the date of notification of receipt of:

- (a) the dates on which any tests required by these WEM Rules or a WEM Procedure, that must be conducted in order for AEMO to accept or reject an application for Facility registration, prior to a facility registration may be held;
- (b) the date by when results of tests referred to in clause 2.31.6(a) 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).

12.6 Clause 2.31.7 is amended by inserting the words 'or a WEM Procedure,' immediately after the words 'WEM Rules'.

12.7 Clause 2.31.8 is amended by deleting the word 'facility' and replacing it with the word 'Facility'.

12.8 Clause 2.31.9 is amended by inserting the words 'or a WEM Procedure' immediately after the words 'WEM Rules'.

12.9 Clause 2.31.10 is deleted and replaced with the following:

- 2.31.10. AEMO must determine whether to accept or reject the application and notify an applicant accordingly:
- (a) by the date specified in accordance with clause 2.31.6(c) in the case of an application for Facility registration; and
  - (b) within 20 Business Days after the date of notification of receipt for all other applications.

12.10 Clause 2.31.11 is deleted and replaced with the following:

- 2.31.11. Where AEMO has accepted the application the notification under clause 2.31.10 must include:
- (a) in the case of an application to register as a Rule Participant the date and time that registration is to take effect where the date is to be the later of the earliest date by which AEMO can facilitate the registration and the date specified in accordance with clause 2.33.1(k);
  - (b) in the case of an application to de-register as a Rule Participant:
    - i. where the Rule Participant is a Market Participant, the date and time on which the Rule Participant must cease trading as a Market Participant, being the start of the Trading Day beginning on the date specified in accordance with clause 2.33.2(d); and
    - ii. a statement that de-registration as a Rule Participant will not take effect until the requirements of clause 2.31.16 are satisfied;
  - (c) in the case of an application to register a Facility, the date and time that registration is to take effect where the date is to be the later of the earliest date by which AEMO can facilitate the registration and the date specified in accordance with clause 2.33.3(c)(xviii);
  - (d) in the case of an application to de-register a Facility, the date and time that de-registration is to take effect where the date is to be the later of the earliest date by which AEMO can facilitate the de-registration and the date specified in accordance with clause 2.33.4(d);
  - (e) in the case of an application to transfer a Facility, the date and time that transfer is to take effect where the date is to be the later of the earliest date by which AEMO can facilitate the transfer and the date specified in accordance with clause 2.33.5(e)(iii);
  - (f) in the case of an application to aggregate two or more Facilities, the date and time the aggregation is to take effect, where the date is to be the later of the earliest date by which AEMO can facilitate the aggregation and the date specified in accordance with clause 2.33.6(d);
  - (g) in the case of an application to disaggregate two or more Facilities, the date and time that is to take effect, where the date is to be the later of the

earliest date by which AEMO can facilitate the disaggregation and the date specified in accordance with clause 2.33.7(d); and

- (h) in the case of an application for Facility Class reassessment, the date and time that the Facility Class change is to take effect, where the date is to be the later of the earliest day by which AEMO can facilitate the Facility Class change and the date specified in accordance with clause 2.33.8(c).

12.11 Clause 2.31.13 is deleted and replaced with the following:

2.31.13. AEMO may only reject an application if:

- (a) subject to clause 2.30C.1, the application form, when read together with any information received after a request under clause 2.31.4 is incomplete or provides insufficient detail;
- (b) subject to clause 2.30C.1, required supporting evidence is insufficient or not provided;
- (c) the required Application Fee is not paid;
- (d) AEMO is not satisfied that the applicant can comply with the requirements for participation in the Wholesale Electricity Market or registration;
- (e) in the case of an application to register as a Rule Participant where the person has previously been de-registered as a Rule Participant following an order from the Electricity Review Board or de-registered by AEMO under clause 2.32.7E(b), AEMO is not satisfied that person has remedied the reason for or underlying cause of the prior de-registration;
- (f) in the case of an application to de-register as a Market Participant, the applicant has not arranged to de-register its Registered Facilities or transfer those Registered Facilities to another Rule Participant prior to the proposed date of de-registration as a Market Participant;
- (g) [Blank]
- (h) in the case of an application to de-register as a Network Operator, the applicant has not arranged to de-register its Registered Facilities that are Networks or transfer those Registered Facilities to another Rule Participant prior to the proposed date of de-registration as a Network Operator;
- (i) the applicant fails to conduct tests in accordance with clause 2.31.6, fails the tests, or fails to provide adequate information about the tests;
- (j) in the case of an application to register a Facility:
  - i. the relevant Metering Data Agent informs AEMO that the Facility or the interval meter for the Facility is not registered in its Meter Registry or that the Meter Registry information is not consistent with the information in the application to register the Facility;

- ii. the controllability assessment undertaken by AEMO in accordance with clause 2.29.4N determines that the Facility is not able to meet the controllability requirements for the requested Facility Class; or
  - iii. the Facility is not able to meet the requirements for the requested Facility Class;
- (k) in the case of an application to de-register a Facility, the Market Participant holds Capacity Credits for the Facility;
  - (l) in the case of an application to transfer a Facility, the transfer of the Facility would result in the number of Capacity Credits allocated for a Trading Day by the Market Participant transferring the Facility exceeding the number of Capacity Credits held for that Trading Day for the Facility by the Market Participant that are able to be traded bilaterally under the WEM Rules;
  - (m) in the case of an application for a Facility aggregation, AEMO considers the aggregation will not meet the criteria in clause 2.30.5;
  - (n) in the case of an application for a Facility disaggregation, the Facility meets the criteria in clause 2.30.5(g)(ii); or
  - (o) in the case of an application for a Facility Class reassessment:
    - i. if the controllability assessment undertaken by AEMO in accordance with clause 2.29.4N determines that the Facility is not able to meet the controllability requirements for the requested Facility Class; and
    - ii. if the Facility is not able to meet the requirements applicable for the requested Facility Class.

12.12 Clause 2.31.14 is deleted and replaced with the following:

2.31.14. A person who has an application to become a Rule Participant approved, is to become a Rule Participant in the approved class from the date and time specified in accordance with clause 2.31.11(a).

12.13 Clause 2.31.15 is deleted and replaced with the following:

2.31.15. A person who has an application to deregister as a Rule Participant accepted by AEMO must cease trading as a Market Participant by the date and time specified in clause 2.31.11(b)(i).

12.14 Clause 2.31.16 is amended by deleting the words 'de-registration from a Rule Participant class has been accepted by AEMO, participation in the Rule Participant' and replacing them with the words 'de-registration as a Rule Participant has been accepted by AEMO, participation in the relevant Rule Participant'.

12.15 Clauses 2.31.17, 2.31.18 and 2.31.19 are amended by deleting the word 'facility' and replacing it with the word 'Facility' in each place where it occurs.

12.16 Clauses 2.31.21 to 2.31.24 (inclusive) are deleted and replaced with the following:

- 2.31.21. If AEMO approves a Facility aggregation application then the Facility will be aggregated and registered as a single Facility from the date and time specified and in accordance with clause 2.31.11(f).
- 2.31.22. If AEMO approves a Facility disaggregation application then the Facility will be disaggregated and registered as the constituent Facilities from the date and time specified in accordance with clause 2.31.11(g).
- 2.31.23. If AEMO determines that a Facility should be registered in a different Facility Class, then the Facility Class change will be effective from the date determined by AEMO and notified to the Market Participant in accordance with the WEM Procedure referred to in clause 2.31.25.
- 2.31.24. AEMO must maintain a register of:
  - (a) Rule Participants; and
  - (b) Registered Facilities.

12.17 Insert the following new clauses 2.31.25 to 2.31.27:

- 2.31.25. AEMO must document the following processes that AEMO and other Rule Participants, as applicable, must follow in a WEM Procedure:
  - (a) Rule Participant registration;
  - (b) Facility registration, de-registration, aggregation and disaggregation;
  - (c) Facility Class reassessment; and
  - (d) Facility transfers.
- 2.31.26. Applicants must follow the processes in the WEM Procedure referred to in clause 2.31.25 applicable to the Rule Participant class, Facility Class and type of application.
- 2.31.27. AEMO must facilitate participation in a Rule Participant class or Facility Class by an approved applicant as soon as practicable.

### **13. Section 2.32 amended**

13.1 Clause 2.32.2 is deleted and replaced with the following:

- 2.32.2. Where AEMO has issued a Suspension Notice pursuant to a notification by the Economic Regulation Authority in accordance with clause 2.32.1 that a Rule Participant be suspended, AEMO must publish a notice on the WEM Website and issue a Market Advisory specifying that the Rule Participant has been suspended from the Wholesale Electricity Market and provide details of the suspension, including the reason for the suspension and the date the suspension took effect.

13.2 Insert the following new clause 2.32.2A:

2.32.2A. If a Suspension Notice is withdrawn, AEMO must promptly publish a notice on the WEM Website and issue a Market Advisory specifying that the Suspension Notice has been withdrawn.

13.3 Clause 2.32.5(a) is amended by deleting the words 'clause 9.23' and replacing them with the words 'section 9.19'.

13.4 Clause 2.32.7 is amended by inserting the words 'or to' immediately after the words 'registered by'.

13.5 Clause 2.32.7A is amended by deleting the word '2.28.1(c)' and replacing it with the word '2.28.2(b)'.

13.6 Insert the following new clause 2.32.7AA:

2.32.7AA. A Rule Participant that is registered in a class outlined in clauses 2.28.1(a) or 2.28.1(b) must notify AEMO as soon as it becomes aware that it no longer meets all of the criteria specified in clause 2.28.19.

13.7 Clause 2.32.7B is deleted and replaced with the following:

2.32.7B. If:

- (a) the Economic Regulation Authority becomes aware that a Rule Participant registered in the classes outlined in clauses 2.28.1(a) or 2.28.1(b) no longer meets all of the criteria specified in clause 2.28.19, it must notify AEMO; or
- (b) AEMO becomes aware that a Rule Participant registered in the classes outlined in clauses 2.28.1(a) or 2.28.1(b) no longer meets all of the criteria specified in clause 2.28.19 (whether as a result of being informed by the Economic Regulation Authority pursuant to clause 2.32.7B(a) or otherwise),

then, subject to clause 2.32.7BB(b), AEMO must issue a Registration Correction Notice to that Rule Participant.

13.8 Insert the following new clauses 2.32.7BA and 2.32.7BB:

2.32.7BA. If AEMO becomes aware that a Rule Participant has become an externally-administered body corporate (as defined in the Corporations Act), or is under a similar form of administration under any laws applicable to it in any jurisdiction, then AEMO must, as applicable:

- (a) where AEMO intends to issue a Suspension Notice, issue the Suspension Notice to the externally-administered body corporate and the External

Administrator, which may include directions that would have given in a notice to the relevant Rule Participant pursuant to clause 2.32.1; or

- (b) where AEMO intends to issue a Registration Correction Notice, issue the Registration Correction Notice to the externally-administered body corporate and the External Administrator, specifying details that it would have specified in a notice to the relevant Rule Participant pursuant to clause 2.32.7C; or
- (c) notify the Economic Regulation Authority that the Rule Participant is an externally-administered body corporate or has had an External Administrator appointed, and that AEMO is not required to, as applicable:
  - i. issue a Suspension Notice to the Rule Participant pursuant to clause 2.32.1; or
  - ii. issue a Registration Correction Notice to the Rule Participant pursuant to clause 2.32.7B(b).

2.32.7BB. If AEMO becomes aware that a Rule Participant has been wound up or dissolved (as defined in the Corporations Act), AEMO:

- (a) is not required to issue a Suspension Notice to the Rule Participant pursuant to clause 2.32.1;
- (b) is not required to issue a Registration Correction Notice to the Rule Participant pursuant to clause 2.32.7B(b);
- (c) must de-register the Rule Participant and all of the Facilities registered by or to the Rule Participant on a date and time nominated by AEMO;
- (d) must, as soon as practicable, notify the Economic Regulation Authority that the Rule Participant has been wound up or dissolved; and
- (e) must, as soon as practicable, publish a notice on the WEM Website and issue a Market Advisory specifying that the Rule Participant will cease, or has ceased, to be registered from the date and time nominated by AEMO.

#### **14. Section 2.33 amended**

14.1 The section 2.33 heading is deleted and replaced with the following:

### **2.33. The Registration Application Forms**

14.2 Clause 2.33.1 is deleted and replaced with the following:

2.33.1. AEMO must prescribe a Rule Participant registration application form that requires an applicant to provide the following:

- (a) the relevant non-refundable Application Fee;
- (b) whether the applicant is already a Rule Participant;
- (c) contact details for the applicant;

- (d) invoicing details for the applicant;
- (e) tax information from the applicant required by law;
- (f) the class of Rule Participant to which the application relates;
- (g) if the applicant is seeking an exemption from the requirement to register as a Rule Participant;
- (h) if the application relates to the sale of electricity to Contestable Customers by an applicant for the Market Participant class:
  - i. evidence that the applicant holds an Arrangement for Access for the purpose of taking power from the electricity grid; and
  - ii. the information described in Appendix 1(f);
- (i) confirmation of the implementation of any processes or systems required by these WEM Rules for the Rule Participant class to which the application relates;
- (j) information on any Facility registration applications that will follow successful Rule Participant registration or are required as a condition of Rule Participant registration;
- (k) a proposed date for becoming a Rule Participant;
- (l) information required for AEMO to determine the applicant's required Credit Limit;
- (m) such other information AEMO requires to process the application;
- (n) an acknowledgement from the Rule Participant that it is aware of its obligations under these WEM Rules; and
- (o) a statement that the information provided is accurate.

14.3 Clause 2.33.2 is deleted and replaced with the following:

2.33.2. AEMO must prescribe a Rule Participant de-registration application form that requires an applicant to provide the following:

- (a) the relevant non-refundable Application Fee;
- (b) the identity of the Rule Participant;
- (c) the class of Rule Participant to which the application relates;
- (d) a proposed date for ceasing operation in the Rule Participant class covered by the application, where that date must be not earlier than 10 Business Days after the date of application;
- (e) such other information AEMO requires to process the application; and
- (f) a statement that the information provided is accurate.

14.4 Clause 2.33.3 is deleted and replaced with the following:

- 2.33.3. AEMO must prescribe a Facility registration application form that requires an applicant to provide the following:
- (a) the relevant non-refundable Application Fee where this Application Fee may differ for different Facility Classes;
  - (b) the identity of the person making the application, where that person must be a Rule Participant or be in the process of applying to be registered as a Rule Participant;
  - (c) for each Facility to be registered:
    - i. the name of the Facility;
    - ii. the owner of the Facility;
    - iii. if the applicant is seeking an exemption from the requirement to register a Facility;
    - iv. the proposed Facility Class and each Facility Technology Type for the Facility;
    - v. the location of the Facility;
    - vi. if the Facility is to be aggregated with one or more other Facilities in accordance with section 2.30 and details of any proposed aggregation;
    - vii. if the Facility is a Small Aggregation;
    - viii. the type of Facility as defined under clause 2.29.1B;
    - ix. a single line diagram for the Facility, including the location of transformers, switches, operation and interval meters (which are to be maintained in the Meter Registry);
    - x. the point on the network at which the Facility can connect;
    - xi. the network nodes at which the Facility can connect;
    - xii. contact details for the Facility;
    - xiii. if the Facility is yet to commence operation:
      - 1. a proposed date for commencing commissioning the Facility; and
      - 2. a commissioning plan for the Facility.
    - xiv. evidence that an Arrangement for Access is in place, if necessary;
    - xv. details of operational control over that the Facility;
    - xvi. applicable Standing Data as required by Appendix 1;
    - xvii. information on the communication systems that exist for operational control of the Facility; and
    - xviii. a date for commencement of operation; and

- (d) such other information AEMO requires to process the application; and
- (e) a statement that the information provided is accurate.

14.5 Clause 2.33.4 is deleted and replaced with the following:

- 2.33.4. AEMO must prescribe a Facility de-registration application form that requires an applicant to provide the following:
- (a) the relevant non-refundable Application Fee;
  - (b) the name of the Registered Facility to which the application relates;
  - (c) information as to whether the Registered Facility is being:
    - i. decommissioned; or
    - ii. moth-balled or placed in reserve shut-down, in which case information on the time required to return the Registered Facility to service is to be provided;
  - (d) a proposed date on which the Registered Facility is to cease to be registered in the name of that Rule Participant where that date must be:
    - i. not earlier than six months after the date of application if the Facility will cease operation; or
    - ii. the date the application is accepted in the event that the Facility has been rendered permanently inoperable; or
    - iii. not earlier than one month after the date of application if the Facility is a Demand Side Programme; and
  - (e) such other information AEMO requires to process the application; and
  - (f) a statement that the information provided is accurate.

14.6 Clause 2.33.5 is deleted and replaced with the following:

- 2.33.5. AEMO must prescribe a Facility transfer application form that requires an applicant to provide the following:
- (a) the relevant non-refundable Application Fee;
  - (b) the identity of the person making the application, where that person must be a Rule Participant or be in the process of applying to be registered as a Rule Participant;
  - (c) the name of the Rule Participant in respect of which the Facility is currently registered;
  - (d) evidence that the Rule Participant identified in clause 2.33.5(c) consents to the transfer;
  - (e) for each Facility to be transferred:
    - i. the name of the Facility;

- ii. the owner of the Facility;
  - iii. a proposed date for the transfer to take effect;
  - iv. evidence that any required Arrangement for Access is in place; and
  - v. details of operational control over the Facility; and
- (f) evidence to AEMO's satisfaction that the person making the application has assumed the Reserve Capacity Obligations associated with the Facility;
  - (g) such other information AEMO requires to process the application; and
  - (h) a statement that the information provided is accurate.

14.7 Insert the following new clauses 2.33.6, 2.33.7 and 2.33.8:

- 2.33.6. AEMO must prescribe a Facility aggregation application form that requires an applicant to provide the following:
  - (a) the relevant non-refundable Application Fee;
  - (b) the names of the Facilities to which the application relates;
  - (c) evidence to AEMO's satisfaction that the conditions of clause 2.31.10(a) can be met;
  - (d) a proposed date on which the aggregation is to take effect;
  - (e) such other information AEMO requires to process the application; and
  - (f) a statement that the information provided is accurate.
- 2.33.7. AEMO must prescribe a Facility disaggregation application form that requires an applicant to provide the following:
  - (a) the relevant non-refundable Application Fee;
  - (b) the names of the Registered Facilities to which the application relates;
  - (c) evidence satisfactory to AEMO that the requirement in clause 2.30.10(a) that each disaggregated Facility is to be registered as a separate facility can be met;
  - (d) a proposed date on which the disaggregation is to take effect;
  - (e) such other information AEMO requires to process the application; and
  - (f) a statement that the information provided is accurate.
- 2.33.8. AEMO must prescribe a Facility Class reassessment application form that requires an applicant to provide the following:
  - (a) the relevant non-refundable Application Fee;
  - (b) the name of the Registered Facility to which the application relates;

- (c) the proposed Facility Class, which must be either Scheduled Facility, Semi-Scheduled Facility or Non-Scheduled Facility, and a proposed date on which the reassessment is to take effect;
- (d) evidence to AEMO's satisfaction that the conditions of clause 2.29.7 are met;
- (e) information required by AEMO to reassess the Facility Class;
- (f) such other information AEMO requires to process the application; and
- (g) a statement that the information provided is accurate.

**15. Section 2.34 amended**

15.1 Clause 2.34.2B is deleted and replaced with the following:

2.34.2B. A Rule Participant may submit a proposed change to the following Standing Data at any time:

- (a) [Blank]
- (b) whether a Load not currently treated as an Intermittent Load is to be treated as an Intermittent Load, provided that the Rule Participant is confident that the Load satisfies the requirements of clause 2.30B.2; and
- (c) whether a Load currently treated as an Intermittent Load is to cease to be treated as an Intermittent Load.

15.2 Clause 2.34.3 is amended by deleting the words 'sections 6.2A, 6.3C or 6.11A' and replacing them with the words 'sections 6.2A or 6.3C'.

15.3 Clause 2.34.4 is deleted and replaced with the following:

2.34.4. Notwithstanding clauses 2.34.2 and 2.34.3, a Rule Participant is not required to notify AEMO of changes to Standing Data where the changes reflect a temporary change in the capacity or capability of a Registered Facility resulting from either a Planned Outage, proposed Planned Outage or Forced Outage.

15.4 Clause 2.34.7 is deleted and replaced with the following:

2.34.7. AEMO may reject a change:

- (a) in any Standing Data if it considers that an inadequate explanation, including test results, was provided to justify the change in Standing Data; or
- (b) where the Standing Data, including Standing Data relating to the accreditation of a Facility to provide a Frequency Co-optimised Essential System Service in accordance with section 2.34A, is required to:
  - i. be modified in accordance with processes in these WEM Rules other than the processes in this section 2.34; or

- ii. firstly be approved by AEMO through processes in these WEM Rules other than the processes set out in this section 2.34, and AEMO has not given its approval to the change in Standing Data in accordance with those other processes.

15.5 Clauses 2.34.7A, 2.34.7B and 2.34.7C are deleted.

15.6 Clause 2.34.8 is amended by deleting the words 'sections 6.2A, 6.3C or 6.11A' and replacing them with the words 'sections 6.2A or 6.3C'.

15.7 Clause 2.34.11 is deleted and replaced with the following:

2.34.11. AEMO may require that a Rule Participant, or a person that is exempt from the requirement to register as a Rule Participant, provide updated Standing Data for any of its Facilities if AEMO considers the information provided by the Rule Participant or the exempt person to be inaccurate or no longer accurate.

15.8 Clause 2.34.12 is deleted and replaced with the following:

2.34.12. AEMO may use Standing Data to assess whether a Market Participant continues to meet its obligations under these WEM Rules and the WEM Procedures.

15.9 Insert the following new clauses 2.34.12A and 2.34.12B:

2.34.12A. AEMO may use Standing Data to assess whether a Registered Facility continues to meet its obligations under these WEM Rules, including the requirements of the Facility Class it is registered in.

2.34.12B. Where a person is exempted from the requirement to register a Facility pursuant to clauses 2.29.4B or 2.29.4C, AEMO may request information regarding the Facility from that person to assess whether the exemption should be revoked and the information must be provided to AEMO by the time specified in the request.

15.10 Clause 2.34.14(b) is deleted and replaced with the following:

(b) from 8:00 AM on the later of:

- i. the date proposed by the Rule Participant; or
- ii. the date two days following the end of the Trading Day on which AEMO accepted the revised Standing Data; and

## **16. Section 2.34A amended**

16.1 Clause 2.34A.14 is deleted and replaced with the following:

2.34A.14. AEMO must publish, and keep up to date, the following information on the WEM Website:

- (a) for each Facility accredited to provide a Frequency Co-optimised Essential System Service:
  - i. the identity of the Facility;
  - ii. 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;
  - iii. where applicable, the Facility Speed Factor for the Facility; and
- (b) for each Facility, including a transmission system or distribution system, for which AEMO has determined a RoCoF Ride-Through Capability value:
  - i. the identity of the Facility; and
  - ii. the RoCoF Ride-Through Capability for the Facility.

**16A. Section 3.9 amended**

16A.1 Clause 3.9.9 is deleted and replaced with the following:

3.9.9. Non-Co-optimised Essential System Service ("NCESS") is an Essential System Service that is procured in accordance with section 3.11B.

**17. Section 3.11A amended**

17.1 Section 3.11A is deleted and replaced with the following:

**3.11A. Triggering Procurement of Non-Co-optimised Essential System Services (NCESS)**

3.11A.1. The Coordinator may only trigger procurement of a NCESS in accordance with this section 3.11A.

3.11A.2. 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:

- (a) if the forecasted or actual magnitude and frequency of Energy Uplift Payments in the WEM increases to an uneconomic level (assuming locational and situational market power is being controlled under the relevant processes), this indicates a locational constraint in the network and a case may be made to procure locational services to relieve the network constraint;

- (b) frequent AEMO Intervention Events 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;
  - (c) 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;
  - (d) 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; or
  - (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.
- 3.11A.2A. The Coordinator, in consultation with AEMO and a Network Operator, must develop, and publish on the WEM Website, a guideline providing further details regarding the events described in clause 3.11A.2.
- 3.11A.3. A submission by a Network Operator or AEMO under clause 3.11A.2 must:
- (a) be in writing;
  - (b) be made by a date that 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 clause 3.11A.2 that is specified in the submission to enable the Coordinator to consider the factors outlined in clause 3.11A.7.
- 3.11A.4. The Coordinator may trigger an NCESS procurement process in accordance with section 3.11B where any one or more of the following events has occurred or applies:
- (a) the forecast or actual amount of Energy Uplift Payments resulting from one or more binding Constraints imposes an unreasonable level of costs on the market, when assessed against the Wholesale Market Objectives;
  - (b) the Market Clearing Price for any of the Frequency Co-optimised Essential System Services is unreasonable for a sustained period when assessed against the Wholesale Market Objectives;
  - (c) the Whole of System Plan published under section 4.5A indicates alternative network investment options may exist that are reasonably likely to meet a relevant identified network need;

- (d) the Amending Rules in a Final Rule Change Report require a new service; or
  - (e) the Coordinator has received a submission from a Network Operator or AEMO pursuant to clause 3.11A.2.
- 3.11A.5. When determining under clause 3.11A.4 whether or not to trigger an NCESS procurement process in accordance with section 3.11B, the Coordinator may:
- (a) where the Coordinator has received a submission under clause 3.11A.3, request any reasonable further information or analysis from AEMO or the Network Operator to supplement the submission, and AEMO or the Network Operator, as applicable, must provide the information or analysis by the time specified in the request, which must be a reasonable having regard to the nature of the information or analysis requested;
  - (b) consult with AEMO or a Network Operator; and
  - (c) undertake any reasonable studies, analysis or assessment to support her or his decision.
- 3.11A.6. The Coordinator must determine whether to trigger the procurement of an NCESS under clause 3.11A.4:
- (a) where the Coordinator has received a submission from AEMO or a Network Operator under clause 3.11A.2, within 20 Business Days of the later of:
    - i. receipt of the submission; and
    - ii. receipt of any further information or analysis under clause 3.11A.5;
 or
  - (b) where the Coordinator becomes aware of any other event specified in clause 3.11A.4, within 20 Business Days of the later of:
    - i. becoming aware of the event; and
    - ii. receipt of any further information or analysis under clause 3.11A.5 relating to the event.
- 3.11A.7. The Coordinator must take the following factors into account when determining whether to trigger the procurement of an NCESS under clause 3.11A.4:
- (a) where the issue relates to Power System Security or Power System Reliability, the extent to which an NCESS will address the issue;
  - (b) the extent to which an NCESS will minimise costs in the Wholesale Electricity Market;
  - (c) the relative merits between procuring an NCESS or augmenting the network;
  - (d) whether it is suspected that there is a potential exercise of market power;

- (e) whether the procurement of an NCESS is consistent with the Wholesale Market Objectives; and
  - (f) whether procurement of an NCESS will be in the long-term interests of consumers.
- 3.11A.8. Where the Coordinator determines under clause 3.11.4 to trigger an NCESS procurement process in accordance with section 3.11B, the Coordinator must publish a determination on the Coordinator's website, redacting any commercially sensitive or other confidential information, together with the following:
- (a) details of any submission received under clause 3.11A.2;
  - (b) reasons for triggering the procurement of an NCESS;
  - (c) any supporting studies, analysis or assessments relied on by the Coordinator in deciding to trigger the procurement of an NCESS;
  - (d) whether AEMO or a Network Operator (in which case, the name of the Network Operator is to be specified), or both of them, is to procure an NCESS and pay for the service; and
  - (e) any other matters relevant to the Coordinator's decision or procurement of an NCESS.
- 3.11A.9. AEMO or the Network Operator, or both of them, as directed under clause 3.11A.8(e), must commence an NCESS procurement process in accordance with section 3.11B.
- 3.11A.10. Where the Coordinator determines under clause 3.11A.4 not to trigger an NCESS procurement process, the Coordinator must publish a notice on the Coordinator's website, redacting any commercially sensitive or other confidential information, setting out the reasons for her or his decision.

**18. Section 3.11B amended**

18.1 Section 3.11B is deleted and replaced with the following:

**3.11B. Procuring Non-Co-optimised Essential System Services**

**Expression of interest**

- 3.11B.1. AEMO or the Network Operator, as directed under clause 3.11A.8(e), must prepare a draft NCESS Service Specification in accordance with clause 3.11B.5. In preparing the draft NCESS Service Specification, AEMO and the Network Operator must consult with each other on the draft NCESS Service Specification.
- 3.11B.2. Within 20 Business Days, or as reasonably agreed with the Coordinator, of the publication of the Coordinator's determination under clause 3.11A.8, AEMO or the Network Operator, as applicable, must advertise a call for expressions of interest by:

- (a) publishing a notice on the WEM Website, in the case of AEMO, or publishing a notice on the Network Operator's website, in the case of the Network Operator; and
  - (b) publishing a notice in a major Australian newspaper.
- 3.11B.3. AEMO or the Network Operator, as applicable, must include in each notice referred to in clause 3.11B.2:
- (a) the date and time for lodgement of expressions of interest, which must not be less than 20 Business Days after the date the last notice is published in accordance with clause 3.11B.2;
  - (b) the location on the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator, of the draft NCESS Service Specification;
  - (c) contact details for AEMO or the Network Operator, as applicable; and
  - (d) the location on the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator, of the expression of interest form referred to in clause 3.11B.3A.
- 3.11B.3A. AEMO or the Network Operator, as applicable, must develop and publish on the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator, an expression of interest form, setting out the details prospective service providers must provide in response to a call for expressions of interest, which must include whether the facility or equipment that may be able to provide the service can fully or partially meet the draft NCESS Service Specification.
- 3.11B.4. Within 10 Business Days, or as reasonably agreed with the Coordinator, of the closing date for expressions of interest under clause 3.11B.3, AEMO or the Network Operator, as applicable, must consult with the Coordinator to determine whether, based on the expressions of interest received:
- (a) the NCESS procurement process should proceed, in which case, AEMO or the Network Operator, as applicable, must prepare a final NCESS Service Specification, which must be consistent with the draft NCESS Service Specification, and publish a call for NCESS Submissions in accordance with clause 3.11B.6;
  - (b) the NCESS procurement process should proceed subject to modifications to the Service Specification, in which case, AEMO or the Network Operator, as applicable, must prepare a revised NCESS Service Specification and publish a call for NCESS Submissions in accordance with clause 3.11B.6; or
  - (c) the NCESS procurement process should not proceed, in which case, AEMO or the Network Operator, as applicable, must:

- i. publish a notice on the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator, notifying that the NCESS procurement process will not proceed and the reasons for the decision; and
- ii. notify each person that submitted an expression of interest that procurement of the NCESS is not proceeding and the location on the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator, of the notice referred to in clause 3.11B.4(c)(i).

3.11B.5. An NCESS Service Specification must, at a minimum, include:

- (a) the service requirements;
- (b) the expected technical capability of a facility or equipment that may be able to provide the service;
- (c) where applicable, the likely network location where the service is to be provided;
- (d) the maximum quantity of the service required;
- (e) the timing and duration of the service;
- (f) any operational requirements or limitations;
- (g) the material contractual terms associated with the NCESS, including required pricing structure;
- (h) the selection criteria that may apply to the NCESS Submissions; and
- (i) any other relevant matters.

3.11B.6. In advertising a call for NCESS Submissions in accordance with clause 3.11B.4(a), AEMO or the Network Operator, as applicable, must:

- (a) publish a notice requesting NCESS Submissions:
  - i. on the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator; and
  - ii. on at least one major tender portal; and
- (b) notify Market Participants in writing.

3.11B.6A. AEMO or the Network Operator, as applicable, must include in each notice referred to in clause 3.11B.6:

- (a) the date and time for lodgement of NCESS Submissions, which must:
  - i. not be less than 20 Business Days after the date the last notice is published in accordance with clause 3.11B.6; and
  - ii. be in accordance with the form referred to in clause 3.11B.7;

- (b) contact details for AEMO or the Network Operator, as applicable; and
- (c) the location on the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator, of the NCESS Submission form referred to in clause 3.11B.7;
- (d) the location on WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator, of the NCESS Service Specification referred to in clause 3.11B.5; and
- (e) any qualifying criteria in respect of making an NCESS Submission in accordance with clause 3.11B.8.

3.11B.7. An NCESS Submission form must, at a minimum, include:

- (a) the name and type of facility or equipment, and whether it is registered or intending to register under the WEM Rules;
- (b) the name of the Market Participant, or service provider, as applicable, in respect to the facility or equipment;
- (c) the quantity of service the facility or equipment will provide for the NCESS;
- (d) the timing and duration of the service availability for the NCESS;
- (e) the location of the facility or equipment on the network;
- (f) any operational requirements or limitations that must be respected for use of the facility or equipment for the NCESS;
- (g) where the NCESS Submission is made in respect to a type of technology that would ordinarily be capable of being assigned Certified Reserve Capacity, the information required to be provided by the Market Participant or service provider to demonstrate that it will be able to meet the relevant requirements in clause 4.10.1 for at least the first Reserve Capacity Cycle coinciding with the period of the NCESS Contract;
- (gA) where the NCESS Submission is made in respect to a type of technology that would not ordinarily be capable of being assigned Certified Reserve Capacity, the information required to be provided by the Market Participant or service provider to demonstrate that it is not able to meet the relevant requirements of clause 4.10.1;
- (h) whether the facility or equipment participates, or will participate, in Central Dispatch or is accredited or will be accredited under these Market Rules to provide an Essential System Service;
- (i) the fixed costs for that facility or equipment applicable for the period of the NCESS Contract, including any Capacity Credit payments expected or received;
- (j) the highest price at which the facility or equipment will provide the NCESS when enabled or dispatched; and

- (k) any other payment that the facility or equipment requires to provide the NCESS.

#### **Participation in NCESS Procurement**

3.11B.8. An NCESS Submission must:

- (a) be made in good faith;
- (b) be made in accordance with the NCESS Submission form referred to in clause 3.11B.7 and contain any other information requested; and
- (c) include the cost information and any assumptions used to calculate the proposed NCESS payment structure.

#### **Selection process and signing of NCESS Contract**

3.11B.9. Within 20 Business Days, or as reasonably agreed with the Coordinator, of the closing date for NCESS Submissions, AEMO or the Network Operator, as applicable, must:

- (a) in accordance with clause 3.11B.10, select one or more NCESS Submissions which:
  - i. comply with the requirements in clause 3.11B.7;
  - ii. meet the NCESS Service Specification published in the request for NCESS Submissions; and
  - iii. in AEMO's or the Network Operator's reasonable opinion, as applicable, will result in the highest value for money for providing the NCESS; and
- (b) notify the relevant Market Participant or service provider that their NCESS Submission has been selected.

3.11B.10. Subject to clause 3.11B.12, when determining which NCESS Submissions to select under clause 3.11B.9, AEMO or the Network Operator, as applicable, must:

- (a) exclude NCESS Submissions that do not comply with the NCESS Service Specification; and
- (b) exclude NCESS Submissions for new facilities or equipment where:
  - i. insufficient evidence has been provided to support NCESS delivery dates; or
  - ii. sufficient Environmental Approvals have not been granted.

3.11B.11. AEMO or the Network Operator, as applicable, must, when assessing highest value for money under clause 3.11B.9(a)(iii) in respect of an NCESS Submission:

- (a) conduct cost-benefit analysis or other assessments to demonstrate how the NCESS Submission will maximise value for money; and

- (b) take into account all costs in the Wholesale Electricity Market, including, but not limited to, costs relating to Certified Reserve Capacity in respect to the Facility or equipment the subject of the NCESS Submission.
- 3.11B.12. AEMO or the Network Operator, as applicable, may decide to not select any NCESS Submissions where AEMO or the Network Operator considers, in their absolute discretion, that none of the NCESS Submissions represent value for money. Where this occurs, AEMO or the Network Operator, as applicable, must publish the reasons for the decision on the WEM Website, in the case of AEMO, or on the Network Operator's website, in the case of the Network Operator.
- 3.11B.13. Where a Network Operator intends to enter into an NCESS Contract that it reasonably believes may require operational coordination with AEMO in order to manage Power System Security or Power System Reliability, or that is captured in the Operating Protocol referred to in clause 3.1A.1, the Network Operator must, prior to issuing the NCESS Contract to the relevant Market Participant or service provider, consult with AEMO, and
  - (a) agree an operational process for coordination of scheduling, dispatch, enablement and monitoring of the NCESS with AEMO; and
  - (b) where AEMO requires control of the NCESS, agree the relevant requirements for control with AEMO and specify the agreed requirements in the NCESS Contract.
- 3.11B.14. Each Market Participant or service provider who is notified in accordance with clause 3.11B.9(b) that their NCESS Submission has been selected must, within 10 Business Days of receiving the executed NCESS Contract from AEMO or the Network Operator, as applicable:
  - (a) enter into an NCESS Contract with AEMO or the Network Operator, as applicable;
  - (b) where the service provider is required to be registered under these WEM Rules, make an application in accordance with these WEM Rules to become registered as a Rule Participant in the relevant class; and
  - (c) where the facility or equipment that will provide the NCESS is required to be registered under these WEM Rules, make an application in accordance with these WEM Rules to register the facility or equipment in the relevant Facility Class.
- 3.11B.15. AEMO or the Network Operator, as applicable, must publish the following details regarding each NCESS Contract on the WEM Website, in the case of AEMO, or the Network Operator's website, in the case of the Network Operator, as soon as practicable after the NCESS Contract has been signed by all parties:
  - (a) the name of each Market Participant or service provider and the Facility or equipment that will provide the NCESS;

- (b) the location on the network of the facility or equipment;
- (c) the type of service the facility or equipment will provide as NCESS;
- (d) the timing and duration of the NCESS to be provided under the NCESS Contract; and
- (e) the payment structure and the amounts specified in the NCESS Contract.

**19. Section 3.18 amended**

19.1 Clause 3.18.3(a)(iii) is amended by:

- (a) deleting the words 'a Non-Co-optimised Essential System Service contract,' and replacing them with the words 'an NCESS Contract or'; and
- (b) deleting the words 'or Network Control Service Contract'.

19.2 Clause 3.18.3(d) is amended by inserting the word 'and' after the semi-colon at the end of the clause.

19.3 Clause 3.18.3(e) is amended by deleting the contents of it and replacing them with '[Blank]'.

19.4 Clause 3.18.4(e) is deleted and replaced with the following:

- (e) information requirements for processes relating to Outages, including, but not limited to:
  - i. minimum information requirements for an Outage Plan; and
  - ii. any other supporting information that may be used by AEMO to evaluate or assess an Outage Plan;

**20. Section 3.18A amended**

20.1 Clause 3.18A.3 is deleted and replaced with the following:

3.18A.3. The Equipment List must include:

- (a) any part of a transmission system that could limit the output of an Energy Producing System that AEMO has included on the Equipment List, however described by AEMO;
- (b) all Scheduled Facilities holding Capacity Credits;
- (c) all Semi-Scheduled Facilities holding Capacity Credits with a Standing Data nameplate capacity that equals or exceeds 10 MW and all Semi-Scheduled Facilities containing an Electric Storage Resource;
- (d) all Energy Producing Systems serving an Intermittent Load under clause 2.30B.2(a) with a System Size that equals or exceeds 10 MW;
- (e) all Registered Facilities accredited under section 2.34A to provide an Essential System Service, or subject to an NCESS Contract; and

- (f) any other equipment that AEMO determines must be subject to Outage scheduling to maintain Power System Security and Power System Reliability, which may include secondary network equipment, or communication and control systems, however described by AEMO.

20.2. Clause 3.18A.8 is deleted and replaced with the following:

3.18A.8. The Self-scheduling Outage Facility List must include:

- (a) any Scheduled Facility, Semi-Scheduled Facility, Non-Scheduled Facility, and any Energy Producing System serving an Intermittent Load and to which clause 2.30B.2(a) relates, that is not an Equipment List Facility; and
- (b) any other equipment that AEMO determines must submit Outage Plans to AEMO to maintain Power System Security and Power System Reliability however described by AEMO, which may include secondary equipment.

**21. Section 3.21 amended**

21.1 Clause 3.21.8A is amended by deleting the words 'Refund Payable'.

21.2 Clause 3.21.10 is amended by deleting the words 'clause 4.26.1F' and replacing them with the words 'clause 4.26.1J'.

**22. Section 3.22 amended**

22.1 Clause 3.22.2 is amended by inserting the words 'for an Equipment List Facility' immediately after the words 'notification of a Forced Outage'.

**23. Section 3A.1 amended**

23.1 Insert the following new clause 3A.1.4:

3A.1.4. Where the person who owns, controls, or operates a Facility containing an unregistered Energy Producing System supplying an Intermittent Load, that is and continues to be deemed to be an Intermittent Load under clause 1.48.2, is exempted from the requirement in clause 2.30B.8 to make a new application under clause 2.30B.5 for the Load to be treated as an Intermittent Load based on clause 2.30B.8A, the person's Intermediary is responsible for that Transmission Connected Generating System.

**24. Section 4.1 amended**

24.1 Clause 4.1.23A is amended by inserting the words 'the Trading Week containing the last Trading Day of' immediately after the words 'Interval Meter Deadline for'.

24.2 Clause 4.1.23B is amended by inserting the words 'the Trading Week containing the last Trading Day of' immediately after the words 'Interval Meter Deadline for'.

24.3 Clause 4.1.24 is deleted and replaced with the following:

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

**25. Section 4.5B amended**

- 25.1 Section 4.5B is deleted and replaced with the following:

**4.5B. Transmission System Plan**

- 4.5B.1. A Network Operator must develop a Transmission System Plan, and publish it on the Network Operator's website, in accordance with this section 4.5B.
- 4.5B.2. A Network Operator must publish a Transmission System Plan by no later than 1 October each year, in conjunction with its Network Opportunity Map.
- 4.5B.3. A Transmission System Plan must:
- (a) establish a plan for the efficient development of a transmission system for a planning horizon of at least 10 years;
  - (b) meet the Power System Security and Power System Reliability requirements; and
  - (c) be in the long-term interests of consumers.
- 4.5B.4. A Transmission System Plan must include:
- (a) a summary of any significant costs to the Wholesale Electricity Market that have arisen, or may potentially arise, due to the condition of the transmission network, including:
    - i. binding Network Constraints, and the estimated market costs of those binding Network Constraints; and
    - ii. the frequency and magnitude of Energy Uplift Payments, including for Facilities subject to Network Constraints;
  - (b) a set of investment options for developing the transmission system over the relevant planning horizon, which must consider network and non-network solutions to address the matters identified under clause 4.5B.4(a);
  - (c) analysis of market related data and an assessment of the costs and benefits, including to the Wholesale Electricity Market, of the investment options identified under clause 4.5B.4(b);
  - (d) a recommended development path for the transmission system that would maximise net benefits and seek to minimise the long-term costs of electricity supplied to consumers; and

- (e) a high-level assessment of how the recommended development path referred to in clause 4.5B.4(d) will meet the long-term interests of consumers.

4.5B.5. In developing a Transmission System Plan a Network Operator must take into account:

- (a) the WEM Technical Standards under clause 2.8.14;
- (b) power system security and reliability standards and requirements under the WEM Rules and the Technical Rules;
- (c) any Priority Project identified in the Whole of System Plan or major augmentation that Western Power is able to progress in accordance with the Access Code;
- (d) the Network Quality and Reliability of Supply Code;
- (e) any government policy specified in the Whole of System Plan that the Coordinator considers may impact on the development of the Transmission System Plan, as may be advised by the Coordinator pursuant to the consultation process referred to in clause 4.5B.6 or specified in the Whole of System Plan published by the Coordinator under section 4.5A; and
- (f) any other matters that the Network Operator considers relevant to the Transmission System Plan.

4.5B.6. A Network Operator must consult with AEMO and the Coordinator on the assumptions, inputs and scenarios the Network Operator must use in developing and updating a Transmission System Plan, including:

- (a) forecasted demand growth or reduction scenarios, including from the Long Term PASA and Whole of System Plan;
- (b) scheduled connection of new loads or generators;
- (c) expected Network modifications, augmentations, or retirement of existing Facilities or Network assets that impact costs in the Wholesale Electricity Market;
- (d) the Credible Contingency Events and other commonly occurring credible contingencies that may significantly impact the SWIS;
- (e) a range of facility dispatch scenarios or credible dispatch patterns;
- (f) data, modelling and results from the testing of scenarios in the Whole of System Plan, to the extent they are relevant as inputs to the Transmission System Plan;
- (g) relevant information from the Short Term PASA, Medium Term PASA and Long Term PASA studies conducted by AEMO under these WEM Rules; and

- (h) other market information that the Network Operator, AEMO or the Coordinator considers relevant to meeting the requirements for developing the Transmission System Plan in this section 4.5B.
- 4.5B.7. If, in the Network Operator's opinion, new information becomes available that should be used in place of the inputs from the Whole of System Plan specified in clause 4.5B.6(f), the Network Operator must consult with AEMO and the Coordinator on the accuracy and relevance of the new information for use in developing and updating the Transmission System Plan.
- 4.5B.8. A Network Operator may review the Transmission System Plan, or a part of it, in consultation with AEMO and the Coordinator, where there is a material change in any of the assumptions, inputs or scenarios under clause 4.5B.6 or to a WEM Technical Standard.
- 4.5B.9. Before publishing a Transmission System Plan under clause 4.5B.1, a Network Operator must:
  - (a) publish a draft Transmission System Plan;
  - (b) invite users of the Network, other Rule Participants, electricity consumers and other interested persons to make submissions on the draft Transmission System Plan by no later than a specified date (with the date to be specified by the Network Operator to be no earlier than 20 Business Days after the date on which the draft Transmission System Plan is published).
- 4.5B.10. A Network Operator must:
  - (a) take into account any submissions received on the draft Transmission System Plan; and
  - (b) publish on the Network Operator's website a summary of each submission received on the draft Transmission System Plan and the Network Operator's response to it, redacting any commercially sensitive or other confidential information.

**25A. Section 4.10 amended**

25A.1 Clause 4.10.1(e)(ii) is amended by:

- (a) deleting the words 'Intermittent Loads, embedded and Parasitic'; and
- (b) deleting the word '41°C' and replacing it with the words '41 degrees Celsius'.

25A.2 Clause 4.10.1(fA) is amended by inserting the words 'and Loads' immediately after the words 'for a Scheduled Facility comprising only an Electric Storage Resource'.

25A.3 Clause 4.10.1(fA)(ii) is amended by:

- (a) deleting the words 'embedded and Parasitic'; and

(b) deleting the word '41°C' and replacing it with the words '41 degrees Celsius'.

25A.4 Clause 4.10.1(fA)(iii) is amended by:

(a) deleting the word 'Parasitic'; and

(b) deleting the word '41°C' and replacing it with the words '41 degrees Celsius'.

25A.5 Clause 4.10.1(fB)(ii) is amended by:

(a) deleting the words 'embedded and Parasitic'; and

(b) deleting the word '41°C' and replacing it with the words '41 degrees Celsius'.

25A.6 Clause 4.10.1(fB)(iii) is amended by:

(a) deleting the word 'Parasitic'; and

(b) deleting the word '41°C' and replacing it with the words '41 degrees Celsius'.

25A.7 Clause 4.10.1(fC)(ii) is amended by:

(a) deleting the words 'embedded and Parasitic'; and

(b) deleting the word '41°C' and replacing it with the words '41 degrees Celsius'.

25A.8 Clause 4.10.1(fC)(iii) is amended by:

(a) deleting the word 'Parasitic'; and

(b) deleting the word '41°C' and replacing it with the words '41 degrees Celsius'.

## **26. Section 4.11 amended**

26.1 Clause 4.11.1(a) is amended by deleting the words 'Intermittent Loads, embedded loads and Parasitic'.

26.2 Clause 4.11.3 is amended by deleting the words 'embedded loads and Parasitic'.

26.3 Clause 4.11.3B is deleted and replaced with the following:

4.11.3B. The Required Level for a Scheduled Facility or Semi-Scheduled Facility is the sum of each Separately Certified Component determined under clause 4.11.3BA, unless that sum exceeds the Facility's Declared Sent Out Capacity then the Required Level will be the Declared Sent Out Capacity of the Facility.

26.4 Insert new clause 4.11.3BA:

4.11.3BA. The Required Level for a Separately Certified Component of a Scheduled Facility or Semi-Scheduled Facility is:

- (a) for a Non-Intermittent Generating System assigned Certified Reserve Capacity under clause 4.11.1(a), calculated by AEMO using the Capacity Credits associated with the Non-Intermittent Generating System and temperature dependence information submitted to AEMO under clause

4.10.1(e)(i) or provided in Standing Data (where available) and converted to a sent out basis to 41 degrees Celsius;

(b) for an Intermittent Generating System assigned Certified Reserve Capacity under clause 4.11.2(b), either:

- i. the value, expressed in MW as a sent out value, that equals the five percent probability of exceedance of expected generation output for the component of the Facility that is an Intermittent Generating System, submitted to AEMO in the report described in clause 4.10.3A(b);or
- ii. the proposed alternative value for the component of the Facility that is an Intermittent Generating System, expressed in MW as a sent out value, provided in the report described in clause 4.10.3A(c), where AEMO has accepted the proposed alternative value under clause 4.11.2A,

and adjusted for Capacity Credits associated with the Intermittent Generating System;

(c) for an Electric Storage Resource assigned Certified Reserve Capacity under clause 4.11.3 calculated by AEMO using the Capacity Credits associated with the Electric Storage Resource and temperature dependence information submitted to AEMO under clauses 4.10.1(fA), 4.10.1(fB) or 4.10.1(fC) or provided in Standing Data (where available) and converted to a sent out basis to 41 degrees Celsius.

26.5 Insert the following new clauses 4.11.3BB, 4.11.3BC and 4.11.3BD:

4.11.3BB. The Required Level for a Demand Side Programme is calculated by AEMO using the Relevant Demand for the Facility minus the Capacity Credits assigned to the Facility.

4.11.3BC. Except where clause 4.11.3BD applies to the Facility, the Required Level for a Non-Scheduled Facility assigned Certified Reserve Capacity under clause 4.11.2(b) is either:

- (a) the value, expressed in MW as a sent out value, that equals the five percent probability of exceedance of expected generation output for the Facility, specified in the report described in clause 4.10.3A(b);or
- (b) the proposed alternative value for the Facility, expressed in MW as a sent out value, specified in the report described in clause 4.10.3A(c), where AEMO must use the proposed alternative value in accordance with clause 4.11.2A,

and adjusted for Capacity Credits assigned to the Facility.

4.11.3BD. The Required Level for a Non-Scheduled Facility, assigned Certified Reserve Capacity under 4.11.1(bD), is calculated by AEMO using the Capacity Credits assigned to the Facility and temperature dependence information submitted to AEMO under clauses 4.10.1(fD) or provided in Standing Data (where available) and converted to a sent out basis to 41 degrees Celsius.

26.6 Clause 4.11.3C is amended by deleting the words 'For each three year period, beginning with the period commencing on 1 January 2015' and replacing them with the words 'For each five year period, beginning with the period commencing on 1 January 2025'.

26.7 Clause 4.11.12 is deleted and replaced with the following:

4.11.12. AEMO must not assign Certified Reserve Capacity to a Scheduled Facility, Semi-Scheduled Facility or Demand Side Programme unless AEMO is satisfied the Facility is likely to be able to receive, confirm, and implement Dispatch Instructions from AEMO in accordance with the WEM Procedures referred to in clauses 2.35.4 and 7.6.18.

## **27. Section 4.12 amended**

27.1 Clause 4.12.1 is deleted and replaced with the following:

- (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.

27.2 Clause 4.12.1A is deleted.

27.3 Clause 4.12.2(a) is amended by deleting the words 'sections 3.18, 3.19, 3.20 and 3.21' and replacing them with the words 'sections 3.18 to 3.21'.

27.4 Clause 4.12.2(b) is amended by deleting the words 'and inspections'.

27.5 Clause 4.12.3 (and the accompanying footnote) is deleted and replaced with the following clause (and the accompanying footnote):

4.12.3. If a Facility assigned Capacity Credits is not a Registered Facility for any time period during which Reserve Capacity Obligations apply for the Facility, then the Market Participant which holds the Capacity Credits assigned to the Facility will be

deemed to have failed to satisfy the Reserve Capacity Obligations for the Facility during that time period.<sup>2</sup>

<sup>2</sup> See clause 4.26.1 in relation to the refund payable where a Market Participant holding Capacity Credits associated with a Facility fails to comply with the Reserve Capacity Obligations for the Facility.

27.6 Clause 4.12.4 is deleted and replaced with the following:

- 4.12.4. AEMO must determine the Reserve Capacity Obligation Quantity for each Registered Facility which is a Scheduled Facility, Semi-Scheduled Facility, Non-Scheduled Facility or Demand Side Programme for each Dispatch Interval as follows:
- (a) the Reserve Capacity Obligation Quantity for a Registered Facility is equal to zero for each Dispatch Interval in which no Capacity Credits are assigned to the Registered Facility;
  - (b) the Reserve Capacity Obligation Quantity for a Non-Scheduled Facility is equal to zero for each Dispatch Interval;
  - (c) the Reserve Capacity Obligation Quantity for a Demand Side Programme:
    - i. for a Dispatch Interval that falls within a period specified for the Demand Side Programme under clause 4.10.1(f)(vi), is equal to the number of Capacity Credits assigned to the Demand Side Programme for the Dispatch Interval, except where clauses 4.12.4(c)(iii) or 4.12.4(c)(iv) apply;
    - ii. for a Dispatch Interval that falls outside the periods specified for the Demand Side Programme under clause 4.10.1(f)(vi), is equal to zero;
    - iii. will equal zero for the remainder of a Capacity Year once the capacity of the Demand Side Programme has been dispatched under clause 7.6.16 for the number of hours per Capacity Year that is specified for the Demand Side Programme under clause 4.10.1(f)(ii); and
    - iv. will equal zero for the remainder of a Trading Day once the capacity of the Demand Side Programme has been dispatched under clause 7.6.16 for the number of hours per Trading Day that is specified for the Demand Side Programme under clause 4.10.1(f)(iii); and
  - (d) the Reserve Capacity Obligation Quantity for a Scheduled Facility or Semi-Scheduled Facility which is assigned Capacity Credits for a Dispatch Interval is equal to the sum of the Reserve Capacity Obligation Quantities

determined under clause 4.12.5 for each Separately Certified Component of the Registered Facility for the relevant Dispatch Interval.

27.7 Clause 4.12.4A is deleted.

27.8 Clause 4.12.5 is deleted and replaced with the following:

4.12.5. AEMO must determine the Reserve Capacity Obligation Quantity for each Separately Certified Component of a Registered Facility which is a Scheduled Facility or Semi-Scheduled Facility, for each Dispatch Interval for which the Separately Certified Component is assigned Capacity Credits, as follows:

- (a) the Reserve Capacity Obligation Quantity for an Intermittent Generating System is equal to zero for each Dispatch Interval;
- (b) subject to the exceptions specified in clauses 4.12.5(d) and 4.12.5(e), the Reserve Capacity Obligation Quantity for a Non-Intermittent Generating System:
  - i. for a Dispatch Interval during a Trading Day where the maximum daily temperature at the site of the Non-Intermittent Generating System does not exceed 41 degrees Celsius, is equal to the number of Capacity Credits assigned to the Non-Intermittent Generating System for the Dispatch Interval; and
  - ii. for a Dispatch Interval during a Trading Day where the maximum daily temperature at the site of the Non-Intermittent Generating System exceeds 41 degrees Celsius, is equal to:

$$CC \times MSOC45 / MSOC41$$

where:

1. CC is the number of Capacity Credits assigned to the Non-Intermittent Generating System for the Dispatch Interval;
2. MSOC45 is 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 45 degrees Celsius, as specified in Standing Data; and
3. MSOC41 is 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 41 degrees Celsius, as specified in Standing Data;

(c) subject to the exceptions specified in clauses 4.12.5(d), 4.12.5(f) and 4.12.5(g), the Reserve Capacity Obligation Quantity for an Electric Storage Resource:

- i. for a Dispatch Interval which does not fall within an Electric Storage Resource Obligation Interval, is equal to zero;
- ii. for a Dispatch Interval which falls within an Electric Storage Resource Obligation Interval, during a Trading Day where the maximum daily temperature at the site of the Electric Storage Resource does not exceed 41 degrees Celsius, is equal to the number of Capacity Credits assigned to the Electric Storage Resource for the Dispatch Interval; and
- iii. for a Dispatch Interval which falls within an Electric Storage Resource Obligation Interval, during a Trading Day where the maximum daily temperature at the site of the Electric Storage Resource exceeds 41 degrees Celsius, is equal to:

$$CC \times MSOC45 / MSOC41$$

where:

1. CC is the number of Capacity Credits assigned to the Electric Storage Resource for the Dispatch Interval;
2. MSOC45 is 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 45 degrees Celsius, as specified in Standing Data; and
3. MSOC41 is 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 41 degrees Celsius, as specified in Standing Data;

(d) where a Registered Facility which is a Scheduled Facility or Semi-Scheduled Facility is subject to Commissioning Test Plan approved by AEMO in a Dispatch Interval, the Reserve Capacity Obligation Quantity for each Separately Certified Component of the Registered Facility is equal

to zero for the Dispatch Interval and clauses 4.12.5(e) and 4.12.5(f) do not apply;

- (e) subject to clause 4.12.5(d), where a Separately Certified Component which is a Non-Intermittent Generating System is subject to a Planned Outage in a Dispatch Interval, the Reserve Capacity Obligation Quantity of the Separately Certified Component for the Dispatch Interval is reduced from the value determined under clause 4.12.5(b) by the Capacity Adjusted Planned Outage Quantity determined for the Separately Certified Component under clause 3.21.8;
- (f) subject to clauses 4.12.5(d) and 4.12.5(g), where a Separately Certified Component which is an Electric Storage Resource is subject to a Planned Outage in a Dispatch Interval, the Reserve Capacity Obligation Quantity of the Separately Certified Component for the Dispatch Interval is reduced from the value determined under clause 4.12.5(c) by the Capacity Adjusted Planned Outage Quantity determined for the Separately Certified Component under clause 3.21.8; and
- (g) where:
  - i. AEMO issues a direction under clause 7.7.5 in respect of a Registered Facility containing a Separately Certified Component which is an Electric Storage Resource; and
  - ii. the direction requires the Registered Facility to operate at a level higher than its Reserve Capacity Obligation Quantity in the Dispatch Interval to which the direction relates,

the Reserve Capacity Obligation Quantity for the Electric Storage Resource is reduced to zero for all Dispatch Intervals subsequent to the Dispatch Interval in which the direction is issued in the relevant Trading Day and clause 4.12.5(f) does not apply for those Dispatch Intervals.

27.9 Clause 4.12.6 is deleted and replaced with the following:

4.12.6. The Reserve Capacity Obligation Quantity for a Registered Facility  $f$  for a Trading Interval  $t$  is equal to:

$$RCOQ(f, t) = \frac{\sum_{DI \in t} RCOQ(f, DI)}{6}$$

where:

- (a)  $DI \in t$  denotes all Dispatch Intervals  $DI$  in Trading Interval  $t$ ; and
- (b)  $RCOQ(f, DI)$  is the Reserve Capacity Obligation Quantity determined for Registered Facility  $f$  for Dispatch Interval  $DI$  under clause 4.12.4.

27.10 Clause 4.12.7 is deleted.

**28. Section 4.23A amended**

28.1 Clause 4.23A.3 is deleted and replaced with the following:

4.23A.3. If at any time a Market Participant holds Capacity Credits with respect to a facility (the “**primary facility**”) that must be registered as more than one Registered Facility, either as a result of Facility aggregation not being approved by AEMO or being revoked, then AEMO may re-allocate the Certified Reserve Capacity, Capacity Credits and Network Access Quantity of the primary facility between the primary facility and the Registered Facilities subject to the conditions that:

- (a) the Registered Facilities were documented in the original application for Certified Reserve Capacity:
  - i. as contributing to the capacity covered by those Capacity Credits; and
  - ii. were represented in the same way in the Constraint Equations or Constraint Sets that were used to determine the total Network Access Quantity for the Registered Facilities;
- (b) AEMO must not allocate more Certified Reserve Capacity, Network Access Quantity or Capacity Credits to a Registered Facility than that Registered Facility can provide based on information provided in the original application for Certified Reserve Capacity for the primary facility;
- (c) after the re-allocation the total Certified Reserve Capacity, the total Network Access Quantity and the total number of Capacity Credits, respectively, of the primary facility and the Registered Facilities must equal the Certified Reserve Capacity, the Network Access Quantity and the number of Capacity Credits immediately prior to the re-allocation; and
- (d) AEMO must consult with the applicable Market Participant and give consideration to its preferences in the re-allocations to the extent allowed by clauses 4.23A.3(a), 4.23A.3(b) and 4.23A.3(c).

**29. Section 4.25 amended**

29.1 Clause 4.25.1 is deleted and replaced with the following:

4.25.1. AEMO must take steps to verify, in accordance with clause 4.25.2, that each Facility or Separately Certified Component of a Facility assigned Capacity Credits can:

- (a) in the case of a Non-Intermittent Generating System or an Electric Storage Resource, during the period the Reserve Capacity Obligations apply, operate at a level equivalent to its Required Level, adjusted to the level of

Capacity Credits currently held by the Facility or Separately Certified Component, as applicable, at least once during each of the following periods:

- i. 1 October to 31 March; and
- ii. 1 April to 30 September,

which for a Non-Intermittent Generating System, must be achieved on each type of fuel detailed under clause 4.10.1(e)(v)(1)(ii); and

- (b) [Blank]
- (c) in the case of a Demand Side Programme, during the period the Reserve Capacity Obligations apply, other than a Trading Interval the subject of a Verification Test, decrease its consumption to operate at a level equivalent to its Required Level, adjusted to the level of Capacity Credits currently held, at least once during the period between 1 October to 31 March.

29.2 Insert the following new clause 4.25.1A:

4.25.1A. Notwithstanding anything else in this section 4.25, clause 4.25.1 does not apply to an Intermittent Generating System or Non-Scheduled Facility. To avoid doubt, an Intermittent Generating System or Non-Scheduled Facility is not subject to Reserve Capacity Tests under this section 4.25.

29.3 Clause 4.25.2 is deleted and replaced with the following:

4.25.2. AEMO may verify the matters specified in clause 4.25.1 by:

- (a) in the case of a Facility that is not required to install Facility Sub-Metering in accordance with clause 2.29.12:
  - i. observing the Facility operate as part of normal market operations as determined from Meter Data Submissions for not less than:
    - 1. for a Non-Intermittent Generating System, two consecutive Trading Intervals; or
    - 2. for an Electric Storage Resource, the Electric Storage Resource Obligation Duration; or
  - ii. subject to clause 4.25.2B, testing, in accordance with clause 4.25.9, for not less than:
    - 1. for a Non-Intermittent Generating System, two consecutive Trading Intervals; or
    - 2. for an Electric Storage Resource, the Electric Storage Resource Obligation Duration,

and the Facility successfully passing that test as determined from Meter Data Submissions;

- (b) in the case of a Demand Side Programme:
    - i. [Blank]
    - ii. testing, in accordance with clause 4.25.9, for not less than two consecutive Trading Intervals and the Facility successfully passing that test as determined from metered consumption;
  - (c) [Blank]
  - (d) [Blank]
  - (e) in the case of a Facility required to install Facility Sub-Metering in accordance with clause 2.29.12:
    - i. observing the Facility operate, in respect of each Separately Certified Component, as part of normal operations as determined from Meter Data Submissions and meter data recorded by the Facility Sub-Metering, for not less than:
      - 1. for a Non-Intermittent Generating System, two consecutive Trading Intervals; or
      - 2. for an Electric Storage Resource, the Electric Storage Resource Obligation Duration; or
    - ii. subject to clause 4.25.2B, testing, in accordance with clause 4.25.9, in respect of each Separately Certified Component, as determined from Meter Data Submissions and meter data recorded by the Facility Sub-Metering, for not less than:
      - 1. for a Non-Intermittent Generating System, two consecutive Trading Intervals; or
      - 2. for an Electric Storage Resource, the Electric Storage Resource Obligation Duration,
- and that Separately Certified Component successfully passing the test.

29.4 Insert the following new clauses 4.25.2A, 4.25.2B, 4.25.2C, 4.25.2D and 4.25.2E:

4.25.2A. A Market Participant for a Facility required to install Facility Sub-Metering in accordance with clause 2.29.12 may provide AEMO with meter data, recorded by Facility Sub-Metering, by:

- (a) 5 February, in respect of the immediately preceding period commencing 1 October; and

- (b) 5 August, in respect of the immediately preceding period commencing 1 April,

for the purposes of observing the Separately Certified Component in accordance with clause 4.25.2(e)(i).

4.25.2B. AEMO must subject a Facility or Separately Certified Component to a Reserve Capacity Test under clauses 4.25.2(a)(ii) or 4.25.2(e)(ii) where:

- (a) the Market Participant for the Facility, has not provided meter data, recorded by the Facility Sub-Metering to AEMO, where applicable, in accordance with and by the time specified in clause 4.25.2A;
- (b) AEMO has determined, in accordance with clauses 4.25.2(a)(i) or 4.25.2(e)(i), that the Facility or Separately Certified Component of the Facility, as applicable, did not operate at the level specified in clause 4.25.1(a) by:
  - i. 31 January, in respect of the immediately preceding period 1 October to 31 January; and
  - ii. 31 July, in respect of the immediately preceding period 1 April to 31 July; or
- (c) AEMO is conducting a re-test in accordance with clauses 4.25.4 and 4.25.6.

4.25.2C. A Market Participant for a Facility required to install Facility Sub-Metering in accordance with clause 2.29.12 that is tested by AEMO in accordance with clauses 4.25.2(e)(ii), 4.25.4 or 4.25.6 must provide meter data, recorded by Facility Sub-Metering, for the Reserve Capacity Test period to AEMO within five Business Days of the Reserve Capacity Test.

4.25.2D. Where the Market Participant does not provide meter data to AEMO in accordance with and by the time specified in clause 4.25.2C, AEMO must reduce the Capacity Credits associated with the Separately Certified Component of the Facility subject to the Reserve Capacity Test to zero from the second Trading Day following the Scheduling Day on which AEMO determines the deadline for providing that meter data to AEMO under clause 4.25.2C.

4.25.2E. AEMO must, in assessing the performance of a Facility or Separately Certified Component tested in accordance with clauses 4.25.2(a), 4.25.2(e), 4.25.4 or 4.25.6:

- (a) in the case of an Electric Storage Resource, measure the average performance across the Electric Storage Resource Obligation Duration based on the average performance across the eight Trading Intervals; and

- (b) in the case of a Non-Intermittent Generating System, measure the maximum performance in each Trading Interval.

29.5 Clause 4.25.4 is deleted and replaced with the following:

4.25.4. Subject to clause 4.25.4G, if a Facility, or a Separately Certified Component of a Facility, fails a Reserve Capacity Test requested by AEMO under clause 4.25.2, AEMO must re-test that Facility, or Separately Certified Component of that Facility, as applicable, in accordance with clause 4.25.2, not earlier than 14 days and not later than 28 days after the first Reserve Capacity Test. If the Facility, or Separately Certified Component of that Facility, as applicable, fails this second Reserve Capacity Test, then AEMO must, from the second Trading Day following the Scheduling Day on which AEMO determines that the second Reserve Capacity Test was failed:

- (a) if the Reserve Capacity Test related to a Non-Intermittent Generating System, reduce the number of Capacity Credits held by the relevant Market Participant for that Facility or Separately Certified Component of that Facility to reflect the maximum capabilities achieved in either Reserve Capacity Test performed, in accordance with 4.25.2E(b) (after adjusting these results to the equivalent values at a temperature of 41 degrees Celsius and allowing for the capability provided by operation on different types of fuels);
- (b) if the Reserve Capacity Test related to a Demand Side Programme, reduce the number of Capacity Credits held by the relevant Market Participant for that Facility to the maximum level of reduction achieved in either of the two Reserve Capacity Tests; or
- (c) if the Reserve Capacity Test related to an Electric Storage Resource, reduce the number of Capacity Credits held by the relevant Market Participant for that Facility or Separately Certified Component of that Facility to reflect the higher average performance achieved over the Electric Storage Resource Obligation Duration in either Reserve Capacity Test, in accordance with 4.25.2E(a) (after adjusting these results to performance at a temperature of 41 degrees Celsius).

29.6 Clause 4.25.4B(c) is amended by deleting the word 'and' after the semi-colon at the end of the clause.

29.7 Insert the following new clause 4.25.4B(cA):

- (cA) where the Facility contains multiple Separately Certified Components, specify how the reduction in the number of Capacity Credits relates to each Separately Certified Component; and

- 29.8 Clause 4.25.4C(c) is deleted and replaced with the following:
- (c) if applicable and in AEMO's sole discretion, reduce the amount of Capacity Credits held by the Market Participant in respect of the Facility, or Separately Certified Component of the Facility, to which the application relates.
- 29.9 Clause 4.25.5 is amended by deleting the words 'a component' and replacing them with the words 'Separately Certified Component'.
- 29.10 Clause 4.25.6 is deleted and replaced with the following:
- 4.25.6. If AEMO receives a request for a Reserve Capacity re-test in accordance with clause 4.25.5, then:
- (a) if the re-test relates to a Non-Intermittent Generating System, AEMO must conduct such a re-test in accordance with clauses 4.25.2(a)(ii) or 4.25.2(e)(ii) and, following the re-test, set the number of Capacity Credits held by the relevant Market Participant for the Facility or Separately Certified Component of the Facility to reflect the maximum capabilities achieved in the re-test (after adjusting these results to the equivalent values at a temperature of 41 degrees Celsius and allowing for the capability provided by operation on different types of fuel), but not to exceed the number of Capacity Credits originally confirmed by AEMO for the Facility or Separately Certified Component of the Facility under section 4.20 in respect of the relevant Reserve Capacity Cycle;
  - (b) if the re-test relates to a Demand Side Programme, AEMO must conduct such a re-test in accordance with clause 4.25.2(b)(ii) and, following the re-test, set the number of Capacity Credits held by the relevant Market Participant for the Facility to reflect the maximum reduction in its consumption achieved in the re-test, but not to exceed the number of Capacity Credits originally confirmed by AEMO for the Facility under clause 4.20.5A(a) in respect of the relevant Reserve Capacity Cycle; and
  - (c) if the re-test relates to an Electric Storage Resource, AEMO must conduct such a re-test in accordance with clauses 4.25.2(a)(ii) or 4.25.2(e)(ii) and, following the re-test, set the number of Capacity Credits held by the relevant Market Participant for the Facility or Separately Certified Component of the Facility to higher average performance achieved over the Electric Storage Resource Obligation Duration in the re-test (after adjusting these results to performance at a temperature of 41 degrees Celsius) but not to exceed the number of Capacity Credits originally confirmed by AEMO for the Facility or Separately Certified Component of the Facility under section 4.20 in respect of the relevant Reserve Capacity Cycle.

29.11 Clause 4.25.9(h) is deleted and replaced with the following:

(h) notify the Market Participant of the time that the Reserve Capacity Test must be performed, and the level of output required by the Separately Certified Component or level of Injection or Withdrawal required by the Facility for the Reserve Capacity Test, as applicable.

29.12 Clause 4.25.12 is amended by deleting the words 'and setting Reserve Capacity Obligation Quantities'.

**30. Section 4.26 amended**

30.1 Clause 4.26.1(b) is amended by deleting the words 'or is an Intermittent Load'.

30.2 Clause 4.26.1(b)(iv) is amended by inserting the word 'and' after the semi-colon at the end of the clause.

30.3 Clause 4.26.1(b)(v) is amended by deleting the word '; and' at the end of the clause and replacing it with a full stop.

30.4 Clause 4.26.1(b)(vi) is deleted.

30.5 Clause 4.26.1(g) is deleted and replaced with the following:

- (g) RF floor(f,t) is equal to one in the Trading Interval t for a Facility f to which any of the following applies:
- i. the Facility f is a Demand Side Programme; or
  - ii. the Facility f is not a Registered Facility or AEMO has deemed the Facility to not be in Commercial Operation in the Trading Interval t.

30.6 Insert the following new clause 4.26.2AD:

4.26.2AD. STEMFREQ(f,DI) for Facility f in Dispatch Interval DI is:

$$\text{STEMFREQ}(f, DI) = \text{STEMRCOQ}(f, DI) - \text{Max}(0, \text{STEMCAFO}(f, DI) - \text{CAFO}(f, DI))$$

where:

- (a) STEMRCOQ(f,DI) is the STEM Reserve Capacity Obligation Quantity determined for Facility f in Dispatch Interval DI;
- (b) STEMCAFO(f,DI) is the estimate of the Capacity Adjusted Forced Outage Quantity for Facility f in Dispatch Interval DI determined on the Scheduling Day for the relevant Trading Day in accordance with Chapter 6; and
- (c) CAFO(f,DI) is the Capacity Adjusted Forced Outage Quantity determined for Facility f in Dispatch Interval DI under clause 3.21.7C.

30.7 Insert the following new clause 4.26.2AG:

4.26.2AG. LF(p,DI) for Market Participant p in Dispatch Interval DI is:

$$LF(p, DI) = \frac{\sum_{f \in SFFacilities(p, DI)} (LossFactor(f, DI) \times STEMRCOQ(f, DI))}{\sum_{f \in SFFacilities(p, DI)} STEMRCOQ(f, DI)}$$

where:

- (a) LossFactor(f,DI) is the Loss Factor for Facility f in Dispatch Interval DI;
- (b) STEMRCOQ(f,DI) is the STEM Reserve Capacity Obligation Quantity determined for Facility f in Dispatch Interval DI; and
- (c)  $f \in SFFacilities(p, DI)$  denotes all Scheduled Facilities and Semi-Scheduled Facilities for which Market Participant p holds Capacity Credits in Dispatch Interval DI and which AEMO considers to be in Commercial Operation in Dispatch Interval DI.

30.8 Insert the following new clause 4.26.2AH:

4.26.2AH.  $RTCR(p, t)$  for Market Participant p in Trading Interval t is:

$$RTCR(p, t) = \sum_{f \in SFFacilities(p, t)} (CAFO(f, t) + NISCRQ(f, t) + ESRCFS(f, t) + RTMOSF(f, t) + \max(0, NIMGRPPO(f, t) + ESRRPPO(f, t) - STEMCAPO(f, t)))$$

where:

- (a) CAFO(f,t) is the Capacity Adjusted Forced Outage Quantity determined for Facility f in Trading Interval t under clause 3.21.7B;
- (b) NISCRQ(f,t) is the Not In-Service Capacity Refund Quantity determined for Facility f in Trading Interval t under clause 4.26.1D;
- (c) ESRCFS(f,t) is the ESR Charge Shortfall determined for Facility f in Trading Interval t under clause 4.26.1E;
- (d) RTMOSF(f,t) is the Real-Time Market Offer Shortfall determined for Facility f in Trading Interval t under clause 4.26.1G;
- (e) NIMGRPPO(f,t) is the quantity of Refund Payable Planned Outage determined for Facility f in Trading Interval t under clause 4.26.1C;
- (f) ESRRPPO(f,t) is the quantity of Refund Payable Planned Outage determined for Facility f in Trading Interval t under clause 4.26.1CA;
- (g) STEMCAPO(f,t) is the estimate of the Capacity Adjusted Planned Outage Quantity for Facility f in Trading Interval t determined on the Scheduling Day for the relevant Trading Day in accordance with Chapter 6; and
- (h)  $f \in SFFacilities(p, t)$  denotes all Scheduled Facilities and Semi-Scheduled Facilities for which Market Participant p holds Capacity Credits in Trading

Interval t and which AEMO considers to be in Commercial Operation in Trading Interval t.

- 30.9 Clause 4.26.6(d)(ii) is amended by deleting the words 'lesser of—' and replacing them with the words 'lesser of:'.
- 30.10 Clause 4.26.6(e) is amended by deleting the words 'equal to—' and replacing them with the words 'equal to:'.
- 30.11 Clause 4.26.6(e)(i) is amended by deleting the words 'following applies—' and replacing them with the words 'following applies:'.
- 30.12 Clause 4.26.6(e)(ii) is amended by deleting the words 'following applies—' and replacing them with the words 'following applies:'.
- 30.13 Clause 4.26.6(e)(ii)(2) is deleted and replaced with the following:
  - 2. the Reserve Capacity Obligation Quantity for the Demand Side Programme does not equal zero in Trading Interval t;

**31. Section 4.28 amended**

- 31.1 Clause 4.28.8(c) is amended by inserting the words ', deemed to be Intermittent Loads under clause 1.48.2' immediately after the words 'nominations of capacity requirements for Intermittent Loads'.
- 31.2 Clause 4.28.8(c)(ii) is amended by deleting the words 'Contractual Maximum Demand' and replacing them with the words 'Contract Maximum Demand' in each place where they occur.
- 31.3 Clause 4.28.8A is amended by deleting the contents of it and replacing them with '[Blank]'.
- 31.4 Clause 4.28.8B is amended by deleting the words 'clauses 4.28.8 or 4.28.8A' and replacing them with the words 'clause 4.28.8'.

**32. Section 4.28A amended**

- 32.1 Clause 4.28A.1 is amended by inserting the words 'that is and continues to be deemed to be an Intermittent Load under clause 1.48.2,' immediately after the words 'AEMO must determine for each Intermittent Load'.
- 32.2 Clause 4.28A.1(a) is amended by deleting the words 'clause 4.26.1' and replacing them with the word 'clause 4.28A.1A'.
- 32.3 Clause 4.28A.1(c)(ii) is amended by deleting the words 'clauses 4.28.8(c) or 4.28.8A' and replacing them with the words 'clause 4.28.8(c)'.
- 32.4 Clause 4.28A.1(c)(iii) is amended by deleting the words 'clauses 4.28.8(c) or 4.28.8A' and replacing them with the words 'clause 4.28.8(c)'.
- 32.5 Clause 4.28A.1(c)(iv) is amended by deleting the words 'generating system' and replacing them with the words 'Energy Producing System'.

32.6 Insert the following new clause 4.28A.1A:

4.28A.1A. The Trading Interval Refund Rate for an Intermittent Load  $f$  in the Trading Interval  $t$  is determined as follows:

$$\text{Trading Interval Refund Rate}(f,t)=RF(f,t) \times Y(f,t)$$

where:

- (a) Trading Interval Refund Rate ( $f,t$ ) is the Trading Interval Refund Rate for Intermittent Load  $f$  in Trading Interval  $t$ ;
- (b)  $RF(f,t)$  is the refund factor for Intermittent Load  $f$  in Trading Interval  $t$ , which is the lesser of:
  - i. six; and
  - ii. the greater of 1 and the dynamic refund factor  $RF_{\text{dynamic}}(t)$  as determined under clause 4.26.1(d); and
- (c)  $Y(f,t)$  is the per Trading Interval capacity price associated with Intermittent Load  $f$  in Trading Interval  $t$ , which equals the Reserve Capacity Price divided by 12 then divided by the number of Trading Intervals in the relevant Trading Month in which Trading Interval  $t$  falls.

32.7 Clause 4.28A.3 is deleted.

### **33. Section 4.29 amended**

33.1 Clause 4.29.3(d) is amended by deleting the words 'Network Control Service Contracts' and replacing them with 'NCESS Contracts'.

33.2 Clause 4.29.3(dA) is amended by inserting the words ', deemed to be Intermittent Loads under clause 1.48.2,' immediately after the words 'the sum over all of Market Participant  $p$ 's Intermittent Loads'.

### **34. Section 4.30 amended**

34.1 Clause 4.30.6 is amended by deleting the words 'or revise'.

34.2 Insert the following new clauses 4.30.10 and 4.30.11:

4.30.10. Following receipt of a notice provided under clause 4.30.9, a Market Participant may reduce the number of Capacity Credits allocated in respect of the relevant Facility by withdrawing Capacity Credit Allocations and submitting Capacity Credit Allocation Submissions in accordance with clauses 4.30.6 and 4.30.1, respectively.

4.30.11. If, at 5:00 PM on the Scheduling Day, the Capacity Credit Allocations for a Market Participant with respect to a Facility exceeds the number of Capacity Credits held for the Facility, AEMO must, by 5:00 PM on the Trading Day for which the Capacity Credit Allocation relates:

- (a) amend all of the relevant Capacity Credit Allocations proportionally, to ensure that the sum of the Capacity Credit Allocations in respect of the

relevant Facility for the Market Participant for the Trading Day equal the number of Capacity Credits held for that Facility; and

- (b) for each amended Capacity Credit Allocation, notify each affected Market Participant of the details of the amendment.

**35. Section 4.32 amended**

35.1 Insert the following new clause 4.32.1:

- 4.32.1. AEMO must publish the Capacity Credit Allocation Submission timeline for a Financial Year at least one calendar month prior to the commencement of that Financial Year. The Capacity Credit Allocation Submission timeline must include:
  - (a) the earliest date and time at which Capacity Credit Allocation Submissions for a Trading Day can be submitted, where this is to be not less than 10 Business Days prior to the start of the relevant Trading Day; and
  - (b) the latest date and time at which Capacity Credit Allocation Submissions for a Trading Day can be submitted, where this is to be no later than 5:00 PM on the Scheduling Day.

**36. Chapter 5 amended**

36.1 The heading of Chapter 5 is deleted and replaced with '**Obligations for NCESS Contract Holders**'.

**37. Section 5.2A amended**

37.1 Clause 5.2A.2 is deleted and replaced with the following:

5.2A.2 Where a Market Participant enters into an NCESS Contract for a Facility, and the Facility Technology Type for the Facility would ordinarily be capable of being assigned Certified Reserve Capacity, then the Market Participant must apply to AEMO for Certified Reserve Capacity, must meet the requirements of clause 4.8A.3(c) where applicable, and use best endeavours to meet the requirements of clause 4.10.1, in respect of the Facility, in respect of each Reserve Capacity Cycle that the Facility would be eligible to participate in over the period of the NCESS Contract.

37.2 Clause 5.2A.3 is deleted and replaced with the following:

5.2A.3. Clause 5.2A.2 does not require a Market Participant to apply for Certified Reserve Capacity for a Facility for a Reserve Capacity Cycle where the Market Participant has entered into an NCESS Contract in respect of the Facility after the date and time specified under clause 4.1.11 for that relevant Reserve Capacity Cycle.

**38. Section 5.3 amended**

38.1 Section 5.3 is deleted and replaced with the following:

### **5.3. Variations to NCESS Contract**

5.3.1. Where a Market Participant, that has entered into an NCESS Contract in respect of a Facility, is assigned Capacity Credits for the Facility in a Reserve Capacity Cycle that coincides with the period of the NCESS Contract, then:

- (a) where the NCESS Contract was entered into with AEMO, AEMO must vary the payment terms of the NCESS Contract such that the total payment under the NCESS Contract is reduced by the value of the total amount of the expected Capacity Credit payments to be paid to the relevant Market Participant for that Reserve Capacity Cycle; or
- (b) where the NCESS Contract was entered into with a Network Operator, AEMO must provide the value of the total amount of expected Capacity Credit payments to the Network Operator, and the Network Operator must vary the payment terms of the NCESS Contract such that the total payment under the NCESS Contract is reduced by the value of the total amount of the expected Capacity Credit payments to be paid to the relevant Market Participant for that Reserve Capacity Cycle.

5.3.2. Where the NCESS Contract payment terms are varied in accordance with clause 5.3.1(a), AEMO must apply the revised payment terms in the immediate next Settlement Statement.

### **39. Section 5.3A amended**

39.1 Clause 5.3A.1 is deleted and replaced with the following:

5.3A.1. When a Network Operator has entered into an NCESS Contract with a Market Participant, the Network Operator must as soon as practicable and not less than 20 Business Days prior to the NCESS Contract taking effect, provide AEMO with:

- (a) the identity of the Market Participant or the service provider that intends to become registered as a Rule Participant in the Market Participant class;
- (b) the identity of the facility or equipment providing the NCESS;
- (c) a unique identifier for the NCESS Contract;
- (d) the period over which the NCESS is to be provided by the NCESS Contract;
- (e) where applicable, the arrangements for scheduling and dispatch of the Facility or equipment to enable or dispatch the NCESS; and
- (f) unless AEMO has already been provided with a copy of the final NCESS Contract pursuant to clause 3.11B.13, a copy of the signed NCESS Contract.

39.2 Clause 5.3A.2 is amended by deleting the words 'a Network Control Service' and replacing them with 'an NCESS'.

39.3 Clauses 5.3A.3 and 5.3A.4 are deleted.

**40. Section 5.7 amended**

40.1 The heading of section 5.7 is deleted and replaced with '**NCESS Dispatch**'.

40.2 Clause 5.7.2 is deleted and replaced with the following:

5.7.2. AEMO may call upon the relevant facility or equipment to provide the NCESS under a NCESS Contract in accordance with the terms of the contract, or as advised to it by the Network Operator in accordance with clause 5.3A.1, whether or not AEMO is a counterparty to the NCESS Contract.

40.3 Clause 5.7.3 is deleted and replaced with the following:

5.7.3. Where applicable, AEMO must formulate Constraint Equations in accordance with the WEM Procedure referred to in clause 2.27A.10(c) to reflect the terms of the NCESS Contract for use in the Dispatch Algorithm.

40.4 Clause 5.7.4 is deleted and replaced with the following:

5.7.4. Where the terms of an NCESS Contract cannot be expressed as a Constraint Equation, AEMO must record the following details of any instruction to the Facility or equipment in respect of the provisions of the NCESS:

- (a) the date, time and duration of the instruction;
- (b) the nature of the instruction;
- (c) the type of NCESS instructed to be provided;
- (d) any required quantity of the NCESS to be provided; and
- (e) any specific equipment configuration required to be applied.

**41. Section 5.9 amended**

41.1 Clause 5.9.1 is deleted and replaced with the following:

5.9.1. AEMO must provide the following information to the settlement system for each NCESS Contract for each Dispatch Interval in a Trading Week:

- (a) the Market Participant that has entered into the NCESS Contract;
- (b) the set of Registered Facilities providing services under the NCESS Contract whose EOI Quantity is higher than it otherwise would have been as a result of a binding Constraint Equation applied under clause 7.2.4(iA) relating to the NCESS Contract; and
- (c) the payment to be made by AEMO for services provided under the NCESS Contract.

41.2 Clause 5.9.2 is amended by:

- (a) inserting the words 'or otherwise instructed by AEMO to be provided' immediately after the words 'any quantities dispatched';

- (b) replacing the words 'Network Control Service' with 'NCESS';
- (c) replacing the word 'Month' with the word 'Week' whenever it appears; and
- (d) deleting the words 'Non-STEM'.

41.3 Clause 5.9.3 is deleted and replaced with the following:

5.9.3. The information provided by AEMO to a Network Operator under clause 5.9.2 must include, for each relevant NCESS Contract, Facility and Trading Dispatch Interval:

- (a) the unique identifier of the NCESS Contract;
- (b) the NCESS dispatched or directed to be provided (which may be energy or another service);
- (c) insofar as the terms of the NCESS Contract are expressed in a Constraint Equation under clause 5.7.3:
  - i. the information recorded by AEMO for each Dispatch Instruction under clause 7.6.8;
  - ii. the unique identifier for each relevant Constraint Equation that bound in the Dispatch Interval;
- (d) insofar as the terms of the NCESS Contract cannot be expressed in a Constraint Equation, the information recorded by AEMO under clause 5.7.4; and
- (e) any other information reasonably required for the Network Operator to determine the quantity of service provided by the Facility under the NCESS Contract.

41.4 Clause 5.9.4 is deleted.

#### **42. Section 6.3A amended**

42.1 Clause 6.3A.3(d) is amended by deleting the words ', less an allowance for Outages in the schedule maintained in accordance with section 3.23'.

#### **43. Section 6.6 amended**

43.1 Clause 6.6.9 is amended by deleting the word 'Generators' and replacing it with the word 'Facilities'.

43.2 Clause 6.6.10 is amended by deleting the word 'Generator' and replacing it with the word 'Facility' in each place where it occurs.

#### **44. Section 7.2 amended**

44.1 Insert the following new clause 7.2.4(iA):

- (iA) implementing the terms of NCESS Contracts as reflected in Constraint Equations formulated by AEMO under clause 5.7.3;

- 44.2 Clause 7.2.4(l) is amended by deleting the word 'Factors' and replacing it with the word 'Offsets' in each place where it occurs.
- 44.3 Clause 7.2.5(b)(i) is amended by deleting the word 'Factors' and replacing it with the word 'Offsets'.
- 44.4 Clause 7.2.5(b)(ii) is amended by deleting the word 'Factors' and replacing it with the word 'Offsets'.

**45. Section 7.4 amended**

- 45.1 Insert the following new clause 7.4.46A:

7.4.46A. A Market Participant is not required to specify Price-Quantity Pairs for Withdrawals in its Real-Time Market Submission, where the Real-Time Market Submission is made in respect of a Registered Facility containing an Intermittent Load.

**46. Section 7.5 amended**

- 46.1 Clause 7.5.11 is amended by deleting the word 'Factor' and replacing it with the word 'Offset' in each place where it occurs.
- 46.2 Clause 7.5.12(d) is amended by deleting the word 'Factor' and replacing it with the word 'Offset'.
- 46.3 Clause 7.5.12(e) is amended by deleting the word 'Factor' and replacing it with the word 'Offset'.

**47. Section 7.6 amended**

- 47.1 Insert the following new clause 7.6.28:

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 of one or more of the Market Participant's Semi-Scheduled Facilities.

**48. Section 7.9 amended**

- 48.1 Clause 7.9.4 is deleted and replaced with the following:

7.9.4. If a Market Participant intends to synchronise or desynchronise an unregistered Energy Producing System serving an Intermittent Load, the Market Participant to which the Intermittent Load is registered must notify AEMO of the expected time of

synchronisation or desynchronisation of the unregistered Energy Producing System.

**49 Section 7.10 amended**

49.1 Clause 7.10.20 is amended by deleting the word 'Raise'.

**50. Section 7.13 amended**

50.1 Clause 7.13.1A(n) is amended by deleting the word 'Factor' and replacing it with the word 'Offset'.

50.2 Clause 7.13.1A(o) is amended by deleting the word 'Factor' and replacing it with the word 'Offset'.

50.3 Clause 7.13.1B(i) is amended by deleting the word 'Factor' and replacing it with the word 'Offset'.

50.4 Clause 7.13.1B(j) is amended by deleting the word 'Factor' and replacing it with the word 'Offset'.

50.5 Insert the following new clause 7.13.1CA:

7.13.1CA. Where a Market Clearing Price has been impacted by an Affected Dispatch Interval or AEMO Intervention Event, AEMO must:

- (a) determine revised Market Clearing Prices for each Market Service for the relevant Dispatch Interval;
- (b) determine the revised Reference Trading Price for the relevant Trading Interval; and
- (c) publish the revised prices referred to in clauses 7.13.1CA(a) and 7.13.1CA(b) as soon as practicable.

50.6 Clause 7.13.1E(a) is deleted and replaced with the following:

- (a) the following SCADA data for each Dispatch Interval of the Trading Day:
  - i. an estimate of the MWh Injection or Withdrawal of each Registered Facility monitored by AEMO's SCADA system;
  - ii. [Blank]
  - iii. where it is available to AEMO for use in the Central Dispatch Process, data that has been used to replace the Unadjusted Semi-Scheduled Injection Forecast or to adjust Essential System Service submissions for each Semi Scheduled Facility;
  - iv. the Charge Level at the end immediately prior to the start of the Dispatch Interval of each Electric Storage Resource that is part of a Semi-Scheduled Facility or Scheduled Facility and monitored by AEMO's SCADA system;

- v. the MWh output or consumption of each separate electricity producing unit in each Energy Producing System supplying an Intermittent Load for which, in AEMO's reasonable opinion, the information provided under clause 2.30B.3(g) does not show that if a Contingency Event or an event behind the relevant connection point affects the Energy Producing System the net Injection or Withdrawal of the Facility will change by less than 10 MW;
  - vi. the EOI Quantity of each Registered Facility; and
  - vii. any other SCADA data used as an input into the Central Dispatch Process;
- 50.7 Clause 7.13.1E(c) is amended by deleting the word 'received' and replacing it with the words 'used in the Central Dispatch Process'.
- 50.8 Clause 7.13.1E(f) is deleted and replaced with the following:
- (f) for each Registered Facility and each Dispatch Interval, the Energy Uplift Price and the Uplift Payment Mispricing Trigger; and
- 50.9 Clause 7.13.1E(g)(ii) is amended by deleting the words 'clause 7.2.5(n)' and replacing them with the words 'clause 7.2.4'.
- 50.10 Clause 7.13.1E(g)(ii)(2) is amended by deleting the words '; and' and replacing them with a full stop.
- 50.11 Clause 7.13.1E(h) is deleted.
- 50.12 Clause 7.13.1F is deleted and replaced with the following:
- 7.13.1F. If AEMO is prevented from completing the relevant processes that enable the recording of the data described in clause 7.13.1, 7.13.1A, 7.13.1B, 7.13.1C, 7.13.1D and 7.13.1E, AEMO may delay the preparation and publication of the data by up to two Business Days.
- 50.13 Clause 7.13.2 is deleted and replaced with the following:
- 7.13.2. Where AEMO is required to develop estimates under clause 7.13.6, AEMO must publish those estimates as soon as practicable after the date specified in clause 4.1.11.
- 50.14 Insert the following new clause 7.13.6:
- 7.13.6. Where an estimate is required to support the Relevant Level Methodology for a Registered Facility that:
- (a) contains an Intermittent Generating System; or
  - (b) is a Non-Scheduled Facility,
- AEMO must estimate, for the Intermittent Generating System or Non-Scheduled Facility, for each Trading Interval, the maximum quantity of sent out energy in

MWh which the Intermittent Generating System or Non-Scheduled Facility could have potentially generated in the Trading Interval had AEMO issued a Dispatch Instruction that did not restrict the output of the Registered Facility associated with the Intermittent Generating System or the Non-Scheduled Facility during that Trading Interval, in accordance with the WEM Procedure referred to in clause 7.13.8.

50.15 Insert the following new clause 7.13.7:

7.13.7. If AEMO reasonably believes that the estimate determined under clause 7.13.6 was incorrect, it must revise the estimate for use in the Relevant Level Methodology.

50.16 Insert the following new clause 7.13.8:

7.13.8. AEMO must develop a WEM Procedure specifying:

- (a) one or more methods that may be used to determine estimates under 7.13.6;
- (b) the process for revising an estimate under clause 7.13.7; and
- (c) the information that a Market Participant must provide to AEMO for each of the Market Participant's Registered Facilities to support the preparation of estimates under clause 7.13.6 and clause 7.13.7.

## **51. Section 9.5 amended**

51.1 Clause 9.5.1 is deleted and replaced with the following:

9.5.1. For each Trading Interval AEMO must determine the Metered Schedule in accordance with clause 9.5.2 for each:

- (a) Scheduled Facility;
- (b) Semi-Scheduled Facility;
- (c) Non-Scheduled Facility; and
- (d) Non-Dispatchable Load.

51.2 Clause 9.5.2 is deleted and replaced with the following:

9.5.2. Subject to clauses 2.30B.10 and 2.30B.11, the Metered Schedule for a Trading Interval for each:

- (a) Scheduled Facility;
- (b) Semi-Scheduled Facility;
- (c) Non-Scheduled Facility; and
- (d) Non-Dispatchable Load, excluding Non-Dispatchable Loads referred to in clause 9.5.3,

is the net quantity of energy generated and sent out into the relevant Network or consumed by the Facility during that Trading Interval, Loss Factor adjusted to the Reference Node, and determined from Meter Data Submissions received by AEMO in accordance with section 8.4 or SCADA data maintained by AEMO in accordance with clause 7.13.1E(a)(i) where interval meter data is not available.

**52. Section 9.8 amended**

52.1 Clause 9.8.3(c) is amended by inserting the words ', deemed to be an Intermittent Load under clause 1.48.2,' immediately after the words 'its Intermittent Loads'.

**53. Section 9.9 amended**

53.1 Clause 9.9.4(a) is amended by:

- (a) inserting the word 'Final' immediately before the words 'Reference Trading Price'; and
- (b) deleting the words 'as published under clause 7.13.1C'.

53.2 Clause 9.9.9 is amended by:

- (a) inserting the words 'and  $\forall c (f \notin \text{FacilitiesInBindingNCESS}(c, DI))$ ' in a new line immediately below the words 'and  $f \notin \text{FacilitiesInBindingESSEnablementMinimum}(DI)$ ' in the formula for  $\text{IsMisPriced}(f, DI)$ ;

53.3 Clause 9.9.9(d) is amended by:

- (a) inserting the word 'Final' immediately before the words 'Energy Market Clearing Price'; and
- (b) deleting the words 'as published by AEMO under clause 7.13.1B(c)'.

53.4 Clause 9.9.9(f) is amended by deleting the full stop at the end of the clause and replacing it with the words '; and'.

53.5 Insert the following new clause 9.9.9(g):

- (g)  $\text{FacilitiesInBindingNCESS}(c, DI)$  is the set of Registered Facilities provided under clause 5.9.1(b) for NCESS Contract c and Dispatch Interval DI.

53.6 Clause 9.9.10(b) is amended by:

- (a) inserting the word 'Final' immediately before the words 'Reference Trading Price';
- (b) deleting the words 'as published under clause 7.13.1C'.

**54. Section 9.10 amended**

54.1 Clause 9.10.3 is amended by:

- (a) inserting the words '+NCESS\_Payable(p, d)' immediately after the words '+SRS\_Payable(p, d)' in the formula for  $\text{ESS_Payable}(p, d)$ ;

- (b) in clause 9.10.3(e) deleting the full stop at the end of the clause and replacing it with the words '; and'; and
  - (c) inserting the following new clause 9.10.3(f):
    - (f) NCESS\_Payable(p,d) is the NCESS amount payable to Market Participant p for Trading Day d calculated in accordance with clause 9.10.27A.
- 54.2 Clause 9.10.6(a) is amended by:
- (a) inserting the word 'Final' immediately before the words 'Contingency Reserve Raise Market Clearing Price'; and
  - (b) deleting the words 'as published by AEMO under clause 7.13.1C(c)'.
- 54.3 Clause 9.10.6(c)(i) is amended by:
- (a) inserting the words 'for Contingency Reserve Raise' immediately after the words 'Registered Facility *f* in Dispatch Interval *DI*'; and
  - (b) deleting the word '7.13.1C(b)' and replacing it with the words 'clause 7.13.1B(b)'.
- 54.4 Clause 9.10.6(c)(ii) is amended by inserting the word 'Registered' immediately before the words 'Facility *f* is subject to a Planned Outage'.
- 54.5 Clause 9.10.6(d) is amended by:
- (a) inserting the word 'relevant' immediately before the words 'Facility Performance Factor'; and
  - (b) deleting the word '7.13.1C(k)' and replacing it with the word '7.13.1B(k)'.
- 54.6 Clause 9.10.10(a) is amended by:
- (a) inserting the word 'Final' immediately before the words 'Contingency Reserve Lower Market Clearing Price'; and
  - (b) deleting the words 'as published by AEMO under clause 7.13.1C(c)'.
- 54.7 Clause 9.10.10(c)(i) is amended by inserting the words 'for Contingency Reserve Lower' immediately after the words 'Registered Facility *f* in Dispatch Interval *DI*'.
- 54.8 Clause 9.10.10(c)(ii) is amended by inserting the word 'Registered' immediately before the words 'Facility *f* is subject to a Planned Outage'.
- 54.9 Clause 9.10.10(d) is amended by:
- (a) inserting the word 'relevant' immediately before the words 'Facility Performance Factor'; and
  - (b) deleting the word '7.13.1C(k)' and replacing it with the word '7.13.1B(k)'.
- 54.10 Clause 9.10.14(a) is amended by:

- (a) inserting the word 'Final' immediately before the words 'RoCoF Control Service Market Clearing Price'; and
  - (b) deleting the words 'as published by AEMO under clause 7.13.1C(c)'.
- 54.11 Clause 9.10.14(c)(i) is amended by inserting the words 'for RoCoF Control Service' immediately after the words 'Registered Facility *f* in Dispatch Interval *DI*'.
- 54.12 Clause 9.10.14(c)(ii) is amended by inserting the word 'Registered' immediately before the words 'Facility *f* is subject to a Planned Outage'.
- 54.13 Clause 9.10.14(d) is amended by:
- (a) inserting the word 'relevant' immediately before the words 'Facility Performance Factor'; and
  - (b) deleting the word '7.13.1C(k)' and replacing it with the word '7.13.1B(k)'.
- 54.14 Clause 9.10.16(b) is amended by deleting the word '7.13.1C(f)' and replacing it with the word '7.13.1B(f)'
- 54.15 Clause 9.10.16(c) is amended by deleting the word '7.13.1C(h)' and replacing it with the word '7.13.1B(h)'
- 54.16 Clause 9.10.22(a) is amended by:
- (a) inserting the word 'Final' immediately before the words 'Regulation Raise Market Clearing Price'; and
  - (b) deleting the words 'as published by AEMO under clause 7.13.1C(c)'.
- 54.17 Clause 9.10.22(c)(i) is amended by inserting the words 'for Regulation Raise' immediately after the words 'Registered Facility *f* in Dispatch Interval *DI*'.
- 54.18 Clause 9.10.22(c)(ii) is amended by inserting the word 'Registered' immediately before the words 'Facility *f* is subject to a Planned Outage'.
- 54.19 Clause 9.10.22(d) is amended by:
- (a) inserting the word 'relevant' immediately before the words 'Facility Performance Factor'; and
  - (b) deleting the word '7.13.1C(k)' and replacing it with the word '7.13.1B(k)'.
- 54.20 Clause 9.10.23(a) is amended by:
- (a) inserting the word 'Final' immediately before the words 'Regulation Lower Market Clearing Price'; and
  - (b) deleting the words 'as published by AEMO under clause 7.13.1C(c)'.
- 54.21 Clause 9.10.23(c)(i) is amended by inserting the words 'for Regulation Lower' immediately after the words 'Registered Facility *f* in Dispatch Interval *DI*'.

54.22 Clause 9.10.23(c)(ii) is amended by inserting the word 'Registered' immediately before the words 'Facility *f* is subject to a Planned Outage'.

54.23 Clause 9.10.23(d) is amended by:

- (a) inserting the word 'relevant' immediately before the words 'Facility Performance Factor'; and
- (b) deleting the word '7.13.1C(k)' and replacing it with the word '7.13.1B(k)'.

54.24 Insert the following new clause 9.10.27A:

9.10.27A. The NCESS amount payable to Market Participant *p* for Trading Day *d* is:

$$\text{NCESS\_Payable}(p,d) = \sum_{t \in d} \text{NCESS\_Payable}(p,t)$$

where:

- (a)  $\text{NCESS\_Payable}(p,t)$  is the NCESS amount payable to Market Participant *p* for NCESS in Trading Interval *t* as calculated in accordance with clause 9.10.27B; and
- (b)  $t \in d$  denotes all Trading Intervals *t* in Trading Day *d*.

54.25 Insert the following new clause 9.10.27B:

9.10.27B. The NCESS amount payable to Market Participant *p* for NCESS in Trading Interval *t* is:

$$\text{NCESS\_Payable}(p,t) = \sum_{DI \in t} \text{NCESS\_Payable}(p,DI)$$

where:

- (a)  $\text{NCESS\_Payable}(p,DI)$  is the applicable dollar amount payable to Market Participant *p* in Dispatch Interval *DI* for NCESS, as calculated under clause 9.10.27C; and
- (b)  $DI \in t$  denotes all Dispatch Intervals in Trading Interval *t*.

54.26 Insert the following new clause 9.10.27C:

9.10.27C. The NCESS amount payable to Market Participant *p* for NCESS in Dispatch Interval *DI* is:

$$\text{NCESS\_Payable}(p,DI) = \sum_{c \in p} \text{NCESS\_Payable}(c,DI)$$

where:

- (a)  $\text{NCESS\_Payable}(c,DI)$  is the applicable dollar amount payable to Market Participant *p* in Dispatch Interval *DI* for NCESS under each relevant NCESS Contract which Market Participant *p* has entered into with AEMO as provided under clause 5.9.1; and

- (b)  $c \in P$  denotes all NCESS Contracts to which Market Participant  $p$  is a counterparty.

54.27 Insert the following new clause 9.10.27D:

9.10.27D. The total cost of procuring NCESS in Trading Interval  $t$  is:

$$\text{NCESS\_Payable}(t) = \sum_{p \in P} \text{NCESS\_Payable}(p,t)$$

where:

- (a)  $\text{NCESS\_Payable}(p,t)$  is the NCESS amount payable to Market Participant  $p$  for NCESS in Trading Interval  $t$  as calculated in accordance with clause 9.10.27B; and
- (b)  $p \in P$  denotes all Market Participants.

54.28 Clause 9.10.28 is amended by:

- (a) inserting the words '+NCESS\_Recoverable(p, d)' immediately after the words 'SRS\_Recoverable(p, d)' in the formula for  $\text{ESS\_Recoverable}(p, d)$ ;
- (b) in clause 9.10.28(e) deleting the full stop at the end of the clause and replacing it with the words '; and
- (c) inserting the following new clause 9.10.28(f):
  - (f)  $\text{NCESS\_Recoverable}(p,d)$  is the NCESS amount recoverable from Market Participant  $p$  for Trading Day  $d$  calculated in accordance with clause 9.10.44.

54.29 Insert the following new clause 9.10.44:

9.10.44. The NCESS amount recoverable from Market Participant  $p$  for Trading Day  $d$  is:

$$\text{NCESS\_Recoverable}(p, d) = \sum_{t \in d} \text{NCESS\_Recoverable}(p,t)$$

where:

- (a)  $\text{NCESS\_Recoverable}(p,t)$  is the NCESS amount recoverable from Market Participant  $p$  for Trading Interval  $t$  in accordance with clause 9.10.45; and
- (b)  $t \in d$  denotes all Trading Intervals  $t$  in Trading Day  $d$ .

54.30 Insert the following new clause 9.10.45:

9.10.45. The NCESS amount recoverable from Market Participant  $p$  for Trading Interval  $t$  is:

$$\text{NCESS\_Recoverable}(p,t) = \text{NCESS\_Payable}(t) \times \text{ConsumptionShare}(p,t)$$

where:

- (a) NCESS\_Payable(t) is the total cost of procuring NCESS in Trading Interval t as calculated in accordance with clause 9.10.27D; and
- (b) ConsumptionShare(p,t) is the Consumption Share for Market Participant p in Trading Interval t as calculated in accordance with clause 9.5.6.

**55. Section 9.12 amended**

55.1 Insert the following new clause 9.12.2:

9.12.2. The applicable Market Participant fee settlement amount for Market Participant p for Trading Day d is:

$$\text{MPF\_SA}(p, d) = \text{MPMF\_SA}(p, d) + \text{MPRF\_SA}(p, d) + \text{MPCF\_SA}(p, d)$$

where:

- (a) MPMF\_SA(p,d) is the Market Participant Market Fees settlement amount for Market Participant p for Trading Day d calculated in accordance with clause 9.12.3;
- (b) MPRF\_SA(p,d) is the Market Participant Regulator Fees settlement amount for Market Participant p for Trading Day d calculated in accordance with clause 9.12.4; and
- (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.

55.2 Insert the following new clause 9.12.4A:

9.12.4A. The Market Participant Coordinator Fees settlement amount for Market Participant p for Trading Day d is:

$$\text{MPCF\_SA}(p, d) = - \text{CoordinatorFeeRate}(d) \times \text{ParticipantContribution}(p, d)$$

where:

- (a) CoordinatorFeeRate(d) is the charge per MWh for funding the Coordinator's activities with respect to the Wholesale Electricity Market and other functions under these WEM Rules and the Regulations determined as the Market Participant Coordinator Fee rate in accordance with clause 2.24.2 for the year in which Trading Day d falls; and
- (b) ParticipantContribution(p,d) is calculated in accordance with clause 9.12.5.

**56. Section 9.13 amended**

56.1 Insert the following new clause 9.13.1:

9.13.1. AEMO must determine a Service Fee Settlement Amount for a Trading Day payable to AEMO, to the Economic Regulation Authority and to the Coordinator.

56.2 Insert the following new clause 9.13.4:

9.13.4 The Service Fee Settlement Amount payable to the Coordinator for Trading Day d is:

$$SFCF\_SA(d) = - \sum_{p \in P} MPCF\_SA(p, d)$$

where:

- (a) MPCF\_SA(p,d) is the Market Participant Coordinator Fees settlement amount for Market Participant p for Trading Day d as calculated in clause 9.12.4A; and
- (b) p ∈ P denotes all Market Participants.

**57. Section 9.14 amended**

57.1 Clause 9.14.2(c)(iii) is amended by inserting the word 'Final' immediately before the words 'Energy Market Clearing Price'.

57.2 Clause 9.14.2(c)(iv) is amended by inserting the word 'final' immediately before the words 'Market Clearing Prices'.

57.3 Clause 9.14.2(d)(vi) is amended by inserting the word 'Final' immediately before the words 'Reference Trading Price'.

**58. Section 10.2 amended**

58.1 Clause 10.2.1 is deleted and replaced with the following:

10.2.1. The Coordinator must, in accordance with the WEM Rules and WEM Procedures, determine the confidentiality status for each type of market related information and document produced or exchanged in accordance with the WEM Rules or WEM Procedures.

58.2 Clause 10.2.3 is deleted and replaced with the following:

10.2.3. In determining the confidentiality status of a type of market related information or document under clause 10.2.1, subject to clauses 10.3.2B and 10.3.2BA, the Coordinator must have regard to the following principles:

- (a) information that discloses the price of electricity, capacity or any related service, equipment, or plant, or commercially sensitive or potentially defamatory information pertaining to a Rule Participant is not made public or revealed to other Rule Participants except in accordance with legal requirements or requirements of these WEM Rules;
- (b) subject to clause 10.2.3(a), Rule Participants are to have access to information pertaining to current and expected future conditions of the power system that may impact on their ability to trade, deliver, or consume energy;

- (c) the Coordinator may restrict the availability of information to a person where this is required by law, or these WEM Rules;
- (d) the Coordinator may declare incomplete working documents to be Confidential;
- (e) subject to this clause 10.2.3, the confidentiality status must seek to maximise the number of parties that may view the information or document;
- (f) information already in the public domain, other than by reason of a breach of existing confidentiality obligations, has a confidentiality status of Public;
- (g) information already known to a person, other than by reason of a breach of existing confidentiality obligations, is available to that person;
- (h) information that would otherwise be confidential may be disclosed to the extent that the Coordinator is satisfied its disclosure is with the consent of the party to whom the information is confidential; and
- (i) information that may be aggregated or provided in a form that does not disclose material that would otherwise be confidential, is to be Public.

58.3 Clause 10.2.3A is deleted and replaced with the following:

10.2.3A. The Coordinator, AEMO, the Economic Regulation Authority or a Network Operator may make available to any person information if the Coordinator, AEMO, the Economic Regulation Authority or the Network Operator, as applicable, are required to do so by law or these WEM Rules.

58.4 Clauses 10.2.3B, 10.2.3BA and 10.2.3C are deleted.

58.5 Clause 10.2.5(e) is amended by deleting the word 'AEMO' and replacing it with the words 'the Coordinator'.

58.6 Clause 10.2.6 is amended by deleting the word 'AEMO' and replacing it with the words 'the Coordinator' in each place where it occurs.

58.7 Clause 10.2.7 is deleted and replaced with the following:

10.2.7. The Coordinator must document in a WEM Procedure the process it follows in determining the confidentiality status of information in section 10.2.

## **59 Section 10.5 amended**

59.1 Clause 10.5.1 is amended by deleting the words 'AEMO must set the class of confidentiality status' and replacing them with the words 'The confidentiality status'.

59.2 Clauses 10.5.1(a) and 10.5.1(b) are amended by deleting the contents of them and replacing them with '[Blank]'.

- 59.3 Clause 10.5.1(c)(vi) is amended by deleting the word 'and' after the semi-colon at the end of the clause.
- 59.4 Clause 10.5.1(c)(vii) is amended by inserting the word 'and' after the semi-colon at the end of the clause.
- 59.5 Insert the following new clause 10.5.1(c)(viii):
- viii. names and capacities of Intermittent Loads and the Energy Producing Systems which supply them, including a unique name for each electricity producing unit in the Energy Producing System;
- 59.6 Clause 10.5.1(jB) is amended by deleting the words 'Network Control Service Contracts' and replacing them with 'NCESS Contracts'.
- 59.7 Clause 10.5.2 is amended by deleting the words 'AEMO must set' and replacing them with the words 'The Coordinator must set'.
- 60. Section 10.7 amended**
- 60.1 Clause 10.7.1 is amended by deleting the words 'AEMO must set' and replacing them with the words 'The Coordinator must set'.
- 60.2 Clause 10.7.1(c) is amended by deleting the words 'Market Customer specified' and replacing them with the words 'Market Participant specific'.
- 60.3 Clause 10.7.2 is amended by deleting the words 'AEMO must set' and replacing them with the words 'The Coordinator must set'.
- 61. Section 10.8 amended**
- 61.1 Clause 10.8.2 is amended by deleting the words 'AEMO must set' and replacing them with the words 'The Coordinator must set'.
- 62. Section 10.9 amended**
- 62.1 Clause 10.9.1 is amended by deleting the words 'AEMO must set' and replacing them with the words 'The Coordinator must set'.
- 63. Chapter 11 (Glossary) amended**
- 63.1 Insert each of the following new definitions in Chapter 11 (Glossary) in the appropriate alphabetical order:
- Aggregated Facility:** A group of Facilities of the type defined in clause 2.29.1B(c), aggregated under section 2.30, and treated as a single Facility for the purpose of these WEM Rules.
- Contingency Lower Offset:** For each Dispatch Interval or Pre-Dispatch Interval, the offset determined by AEMO in accordance with the WEM Procedure referred to in clause 7.2.5, when determining the quantity of Contingency Reserve Lower required to maintain the SWIS

frequency in accordance with the Frequency Operating Standards taking into account the size of the Largest Credible Load Contingency, and where:

- (a) a negative offset quantity indicates additional Contingency Reserve Lower is required; and
- (b) a positive offset quantity indicates less Contingency Reserve Lower is required.

**Contingency Raise Offset:** For each Dispatch Interval or Pre-Dispatch Interval, the offset determined by AEMO in accordance with the WEM Procedure referred to in clause 7.2.5 when determining the quantity of Contingency Reserve Raise required to maintain the SWIS frequency in accordance with the Frequency Operating Standards considering the Largest Credible Supply Contingency, and where:

- (a) a negative offset quantity indicates additional Contingency Reserve Raise is required; and
- (b) a positive offset quantity indicates less Contingency Reserve Raise is required.

**Contract Maximum Demand:** Has the meaning given in Appendix 3 of the Electricity Networks Access Code 2004.

**Energy Producing System:** One or more electricity producing units, such as generation systems or Electric Storage Resources, located behind a single network connection point or electrically connected behind two or more shared network connection points.

**External Administrator:** Means an administrator, controller, managing controller or restructuring practitioner (each as defined in the Corporations Act), trustee, provisional liquidator, liquidator or any other person (however described) holding or appointed to an analogous office or acting or purporting to act in an analogous capacity.

**Facility:** Has the meaning given in clause 2.29.1B, which can be an unregistered facility or Registered Facility.

**Facility Contingency:** Means a Credible Contingency Event associated with the unexpected automatic or manual disconnection of, or the unplanned change in output of, one or more operating energy producing units or Facilities.

**Facility Risk:** Means, for a Facility, the sum of energy and Regulation Raise cleared from the relevant Facility in that Dispatch Interval.

**Final Energy Market Clearing Price:** The Energy Market Clearing Price as published or revised and republished under section 7.13.

**Final Contingency Reserve Lower Market Clearing Price:** The Contingency Reserve Lower Market Clearing Price as published or revised under section 7.13.

**Final Contingency Reserve Raise Market Clearing Price:** The Contingency Reserve Raise Market Clearing Price as published or revised under section 7.13.

**Final Regulation Lower Market Clearing Price:** The Regulation Lower Market Clearing Price as published or revised under section 7.13.

**Final Regulation Raise Market Clearing Price:** The Regulation Raise Market Clearing Price as published or revised under section 7.13.

**Final RoCoF Control Service Market Clearing Price:** The RoCoF Control Service Market Clearing Price as published or revised under section 7.13.

**Final Reference Trading Price:** The Reference Trading Price as published or revised under section 7.13.

**Largest Credible Load Contingency:** Means the highest magnitude possible MW change resulting in an increase in SWIS frequency that could occur in a Dispatch Interval or Pre-Dispatch Interval due to a single Credible Contingency Event based on the output of the Dispatch Algorithm.

**Largest Credible Supply Contingency:** Means the maximum possible net MW change resulting in a decrease in SWIS frequency that could occur in a Dispatch Interval or Pre-Dispatch Interval due to a single Credible Contingency Event based on the output of the Dispatch Algorithm, accounting for any associated change in overall demand as a result of the same Credible Contingency Event.

**Maximum Contingency Reserve Block Size:** The largest quantity of Contingency Reserve that may be offered by a relevant Registered Facility at one price, as set by AEMO in a WEM Procedure.

**Nominated Excess Capacity:** In respect of a Facility containing an Intermittent Load, the maximum quantity of Injection (in MW) that the Market Participant intends the Facility to make in any Dispatch Interval, which must not be exceeded in more than 120 Dispatch Intervals in any 12 month period.

**Non-Scheduled Facility:** A Facility that can be self-scheduled by its operator (with the exception that AEMO can direct it to decrease its output subject to its physical capabilities), and which is registered as such in accordance with clause 2.29.4G.

**Scheduled Facility:** A Facility that can respond to a Dispatch Target from AEMO such that it can maintain its Injection or Withdrawal within its Tolerance Range for a specified period and is registered as such in accordance with clauses 2.29.4G and 2.29.4I.

**Semi-Scheduled Facility:** A Facility that can reduce the value of its Injection or increase the value of its Withdrawal to comply with a Dispatch Cap issued by AEMO and is registered as such in accordance with clauses 2.29.4G and 2.29.4I.

**Small Aggregation:** One or more Facilities connected to the distribution system and located at the same Electrical Location.

**STEM Reserve Capacity Obligation Quantity:** An estimate of the Reserve Capacity Obligation Quantity for a Separately Certified Component of a Scheduled Facility or Semi-Scheduled Facility for a Dispatch Interval that is determined by AEMO on the Scheduling Day for the relevant Trading Day in accordance with Chapter 6.

**System Size:** Means, in respect of a Facility being a quantity equalling the sum of:

- (a) the minimum of:

- i. the Declared Sent Out Capacity of the Facility; and
  - ii. the sum over all energy producing equipment comprising the Energy Producing System at the Facility (calculated for each individual piece of energy equipment), of each energy producing equipment's maximum MW output; and
- (b) if the Facility contains no Electric Storage Resource, then zero, otherwise the minimum of:
- i. the Contract Maximum Demand in MW of the Facility, where the Contract Maximum Demand is a positive quantity; and
  - ii. negative one multiplied by the sum over all Electric Storage Resources in the Energy Producing System at the Facility (calculated for each individual Electric Storage Resource), of each Electric Storage Resource's maximum MW consumption quantity (where that consumption quantity is negative).

**Unadjusted Semi-Scheduled Injection Forecast:** The expected maximum available Injection from a Semi-Scheduled Facility in a Dispatch Interval, including the effect of any Outages that have not been rejected for that Registered Facility, assuming that the Registered Facility will not be subject to a Dispatch Instruction that limits its Injection or Withdrawal, which may be provided to AEMO in accordance with the WEM Procedures in clauses 2.35.4 and 7.13.3.

**Uplift Payment Mispricing Trigger:** For a Facility and a Dispatch Interval, the value calculated in clause 9.9.9.

63.2 The definition for 'Constraints Library' is amended by inserting the words 'or clause 5.7.3' immediately after the words 'section 2.27A' in subclause (a) of the definition.

63.3 The definition for 'Electric Storage Resource Obligation Interval' is deleted and replaced with the following:

**Electric Storage Resource Obligation Interval:** A Trading Interval, that AEMO has determined in accordance with the WEM Procedure referred to in clause 4.11.3A, in which a non-zero Reserve Capacity Obligation Quantity is applied to an Electric Storage Resource.

63.4 The definition for 'Facility Capacity Rebate' is amended by deleting the words 'Scheduled Generator' and replacing them with the words 'Scheduled Facility, Semi-Scheduled Facility'.

63.5 The definition for 'Frequency Band' is deleted and replaced with the following:

**Frequency Band:** Means the Credible Contingency Event Frequency Band, Extreme Frequency Tolerance Band, Island Separation Frequency Band, Normal Operating Frequency Band or Normal Operating Frequency Excursion Band.

63.6 The definition for 'Individual Intermittent Load Reserve Capacity Requirement' is amended by inserting the words 'to which clause 1.48.2 applies' immediately after the words 'for an Intermittent Load'.

- 63.7 The definition for 'Intermittent Load' is deleted and replaced with the following:
- Intermittent Load:** A type of Load or part of a Load defined under clause 2.30B.1.
- 63.8 The definition for 'Interruptible Load' is deleted and replaced with the following:
- Interruptible Load:** A Facility relating to one or more Non-Dispatchable Loads, where consumption can be curtailed automatically in response to a change in system frequency, and registered as such in accordance with clause 2.29.5.
- 63.9 The definition for 'Load' is deleted and replaced with the following:
- Load:** One or more electricity consuming resources or devices, other than Electric Storage Resources, located behind a single network connection point or electrically connected behind two or more shared network connection points.
- 63.10 The definition for 'Non-Dispatchable Load' is deleted and replaced with the following:
- Non-Dispatchable Load:** A Facility of the type defined in clause 2.29.1B(c) which is not a Registered Facility and that may be associated with a Demand Side Programme or an Interruptible Load.
- 63.11 The definition for 'Non-Temperature Dependent Load' is deleted and replaced with the following:
- Non-Temperature Dependent Load:** A Non-Dispatchable Load accepted by AEMO as a Non-Temperature Dependent Load under clause 4.28.9.
- 63.12 The definition for 'Parasitic Load' is deleted and replaced with the following:
- Parasitic Load:** A Load where consumption is auxiliary to the production of energy from an Energy Producing System.
- 63.13 The definition for 'Registered Facility' is amended by inserting the words 'in a Facility Class' immediately after the word 'AEMO'.
- 63.14 The definition for 'Registration Correction Notice' is deleted and replaced with the following:
- Registration Correction Notice:** Means a notice issued by AEMO under clauses 2.32.7B or 2.32.7BA.
- 63.15 The definition for 'Required Level' is deleted and replaced with the following:
- Required Level:** The level of output (expressed in MW) required to be met by a Facility as determined in clauses 4.11.3B, 4.11.3BB, 4.11.3BC or 4.11.3BD, as applicable.
- 63.16 The definition for 'Reserve Capacity Obligation Quantity' is deleted and replaced with the following:

**Reserve Capacity Obligation Quantity:** The specific amount of capacity required to be provided in a Dispatch Interval or Trading Interval as part of a Reserve Capacity Obligation set by AEMO in accordance with clauses 4.12.4 to 4.12.6.

63.17 The definition for 'Temperature Dependent Load' is deleted and replaced with the following:

**Temperature Dependent Load:** A Non-Dispatchable Load that is not a Non-Temperature Dependent Load.

63.18 The definition for 'Total Sent Out Generation' is deleted and replaced with the following:

**Total Sent Out Generation:** Means, for a Trading Interval, the sum over all Scheduled Facilities, Semi-Scheduled Facilities and Non-Scheduled Facilities of each Facility's Sent Out Metered Schedule for the Trading Interval or zero (whichever is higher for that Facility).

63.19 The definition for 'Transmission Connected Generating System' is deleted and replaced with the following:

**Transmission Connected Generating System:** Means generating works connected to a transmission system in the SWIS, including an unregistered Energy Producing System supplying an Intermittent Load.

63.20 Each of the definitions listed in the following Table in Chapter 11 (Glossary) is deleted:

Table
Capacity Credit Allocation Acceptance
Dispatch Support Service Contract
Market Customer
Market Generator
Network Control Service
Network Control Service Contract
Scheduled Load

#### 64. Appendix 1 amended

64.1 Clause (f) in Appendix 1 is amended by deleting the words 'for a Market Customer serving Non-Dispatchable Load' and replacing them with the words 'for a Market Participant serving Non-Dispatchable Load, or a Registered Facility containing an Intermittent Load'.

64.2 Clause (f)(vi) in Appendix 1 is deleted and replaced with the following:

vi. the identity of metering points serving Intermittent Loads that are contained in Non-Dispatchable Loads or Registered Facilities;

64.3 Clause (g) in Appendix 1 is deleted and replaced with the following:

(g) for an Interruptible Load:

i. the Market Participant's nominated maximum consumption quantity, in units of MWh per Trading Interval;

- ii. evidence that the communication and control systems required by section 2.35 are in place and operational;
- iii. real-time telemetry capabilities;
- iv. the maximum amount of load that can be interrupted;
- v. the maximum duration of any single interruption;
- vi. the capability to provide Contingency Reserve Raise as a function of consumption;
- vii. the Metering Data Agent for the facility;
- viii. the single line diagram for the facility, including the locations of transformers, switches, operational and settlement meters;
- ix. the network nodes at which the facility can connect; and
- x. the short circuit capability of facility equipment.

64.4 Clause (k)(ii) in Appendix 1 is amended by deleting the words 'Network Control Service' and replacing them with 'Non-Co-optimised Essential System Service'.

64.5 Clause (k)(ii)(2) and clause (k)(ii)(3) in Appendix 1 are amended by deleting the words 'Network Control Service Contract' and replacing them with 'NCESS Contract'.

**65. Appendix 2A amended**

65.1 Insert the following new clause 1.3 in Appendix 2A:

1.3 Each electricity producing unit in an Energy Producing System supplying an Intermittent Load to which clause 2.1(c) of this Appendix 2A applies is treated as a separate Facility for the purposes of this Appendix 2A.

65.2 Clause 2.1 in Appendix 2A is deleted and replaced with the following:

- 2.1 Determine Facilities(DI) as the set of all:
- (a) Scheduled Facilities and Semi-Scheduled Facilities that do not contain an Intermittent Load in Dispatch Interval DI;
  - (b) Scheduled Facilities, Semi-Scheduled Facilities, Non-Scheduled Facilities and Non-Dispatchable Loads that contain an Intermittent Load in Dispatch Interval DI, where:
    - i. in AEMO's reasonable opinion, the information provided under clause 2.30B.3(g) establishes that if a Contingency Event or an event behind the relevant connection point affects the Energy Producing System supplying the Intermittent Load, the net

Injection or Withdrawal of the Facility will change by less than 10 MW; or

- ii. the Facility Risk for  $f$  in Dispatch Interval  $DI$  as published under clause 7.13.1E(g)(i) is greater than the highest instantaneous output (in MW) of any electricity producing unit in the Energy Producing System supplying the Intermittent Load as provided under clause 2.30B.3(h); and
- (c) electricity producing units in Energy Producing Systems supplying Intermittent Loads which are not part of a Facility included in Facilities( $DI$ ) under clause 2.1(b) of this Appendix 2A, and for which, in AEMO's reasonable opinion, the information provided under clause 2.30B.3(g) does not establish that if a Contingency Event or an event behind the relevant connection point affects the Energy Producing System the net Injection or Withdrawal of the Facility will change by less than 10 MW.

65.3 Insert the following new clause 2.1A in Appendix 2A:

2.1A Determine AdditionalIMLFacilities( $DI$ ) as the set of all Scheduled Facilities, Semi-Scheduled Facilities, Non-Scheduled Facilities and Non-Dispatchable Loads that contain an Intermittent Load in Dispatch Interval  $DI$  and are not included in Facilities( $DI$ ).

65.4 Clause 2.2 in Appendix 2A is deleted and replaced with the following:

- 2.2 For each member in Facilities( $DI$ ) or AdditionalIMLFacilities( $DI$ ),  $f$ , calculate the FacilityRisk( $f, DI$ ) to be:
- (a) where  $f$  is a member of AdditionalIMLFacilities( $DI$ ) or was included in Facilities( $DI$ ) under clauses 2.1(a) or 2.1(b) of this Appendix 2A, the Facility Risk for  $f$  in Dispatch Interval  $DI$  as published under clause 7.13.1E(g)(i); or
  - (b) where  $f$  was included in Facilities( $DI$ ) under clause 2.1(c) of this Appendix 2A, the MWh output or consumption of the electricity producing unit in the Dispatch Interval immediately prior to Dispatch Interval  $DI$  as published under clause 7.13.1E(a)(v), multiplied by 12 to convert to MW.

65.5 Clause 2.4 in Appendix 2A is deleted and replaced with the following:

2.4 Determine AdditionalApplicableFacilities( $DI$ ), which is a subset of AdditionalIMLFacilities( $DI$ ), such that:

$$FacilityRisk(f, DI) \geq 10MW \forall f \in AdditionalApplicableFacilities(DI)$$

65.6 Clause 3.1 in Appendix 2A is amended by:

- (a) deleting the words 'Registered Facilities' and replacing them with the word 'Facilities' in each place where they occur; and

- (b) deleting the words 'Registered Facility' and replacing them with the word 'Facility' in each place where they occur.

65.7 Clause 3.2 in Appendix 2A is amended by deleting the words 'Registered Facility' and replacing them with the word 'Facility'.

65.8 Clause 3.3 in Appendix 2A is deleted and replaced with the following:

3.3 Determine for each Registered Facility  $f$ , its runway share of the FacilityComponent(DI) ) of procuring Contingency Reserve Raise and the Additional RoCoF Control Requirement of RoCoF Control Service as follows:

$$\text{FacilityRunwayShare}(f,DI) = \sum_{i=1}^{\text{Rank}(f,DI)} \frac{\text{FacilityMW}(i,DI) - \text{FacilityMW}(i - 1, DI)}{\text{FacilityMW}(n,DI) \times (n + 1 - i)}$$

where:

- (a) FacilityMW( $i,DI$ ) is the FacilityRisk( $x,DI$ ) value of Facility  $x$  with rank( $x,DI$ ) =  $i$  in Dispatch Interval  $DI$ , where FacilityMW( $0,DI$ )=0, and  $x \in \text{ApplicableFacilities}(DI)$ ;
- (b) Rank( $f,DI$ ) is the rank of Facility  $f$  in Dispatch Interval  $DI$  as determined in clause 3.1 of this Appendix 2A; and
- (c)  $n$  is the number of Facilities in the set  $\text{ApplicableFacilities}(DI)$  in Dispatch Interval  $DI$ .

65.9 Clause 4.1 in Appendix 2A is amended by deleting the words '7.2.4(n)' and replacing them with the words 'clause 7.2.4 '.

65.10 Clause 4.2(a) in Appendix 2A is deleted and replaced with the following:

- (a) NetworkRisk( $nc,DI$ ) equals the Network Risk in Dispatch Interval  $DI$  as published by AEMO in clause 7.13.1E(g)(ii)(1), if  $nc$  sets the Largest Credible Supply Contingency in Dispatch Interval  $DI$ ; and

65.11 Clause 4.5(a) in Appendix 2A is deleted and replaced with the following:

- (a) from the information published under clause 7.13.1E(g)(ii), determine the set of Registered Facilities whose Facility Risks are included in the Network Risk associated with Network Contingency  $nc$  as  $\text{CauserFacilities}(nc,DI)$ , where  $\text{CauserFacilities}(nc,DI)$  is a subset of the union of  $\text{ApplicableFacilities}(DI)$  and  $\text{AdditionalApplicableFacilities}(DI)$  as defined in clauses 2.3 and 2.4 of this Appendix 2A;

65.12 Clause 4.5(b) in Appendix 2A is amended by deleting the words 'of this Appendix 2A' immediately after the words 'clause 2.2 of this Appendix 2A'.

65.13 Clause 5.3(a)(ii) in Appendix 2A is deleted and replaced with the following:

- ii. ApplicableFacilities(p,DI) is a subset of ApplicableFacilities(DI) defined in clause 2.3 of this Appendix 2A, which denotes Registered Facilities in ApplicableFacilities(DI) which are registered to Market Participant p and electricity producing units in ApplicableFacilities(DI) which are in Energy Producing Systems supplying Intermittent Loads for which Market Participant p is responsible; and

65.14 Clause 5.3(a)(iii) in Appendix 2A is amended by deleting words 'Registered Facility' and replacing them with the word 'Facility'.

**66. Appendix 2B amended**

66.1 Clause 2.2(c)(i) in Appendix 2B is amended by deleting the word 'Scheduled'.

**67. Appendix 4A amended**

67.1 Appendix 4A is amended by inserting the following new paragraph immediately after the paragraph 'This Appendix describes how the Individual Intermittent Load Reserve Capacity Requirement for Intermittent Load k for Trading Month n is determined.'

The Individual Intermittent Load Reserve Capacity Requirement is only to be determined for Intermittent Loads that are and continue to be deemed to be Intermittent Loads under clause 1.48.2.

67.2 Appendix 4A is amended by deleting the words 'clauses 4.28.8(c) or 4.28.8A' and replacing them with the words 'clause 4.28.8(c)' in each place where they occur.

**68. Appendix 5 amended**

68.1 Appendix 5 is amended by deleting the contents between (but excluding) the heading 'Appendix 5: Individual Reserve Capacity Requirements' and immediately above Step 1 in the Appendix and replacing them with the following:

This Appendix presents the method that must be used by AEMO to determine, for a Trading Month n:

- Individual Reserve Capacity Requirement Contributions as required for the determination of Relevant Demands under clause 4.26.2CA;
- Indicative Individual Reserve Capacity Requirements as required under clause 4.28.6;
- Individual Reserve Capacity Requirements as required under clause 4.28.7; and
- revised Individual Reserve Capacity Requirements as required under clause 4.28.11A.

AEMO must perform Steps 1 to 10A to determine the Indicative Individual Reserve Capacity Requirements, Individual Reserve Capacity Requirements or revised Individual Reserve Capacity Requirements for Trading Month n.

AEMO must perform Step 11 as required to determine the Individual Reserve Capacity Requirement Contribution of an individual metered Associated Load for Trading Month n, using as input the relevant values calculated by AEMO when it determined the Indicative Individual Reserve Capacity Requirements for Trading Month n.

For the purpose of this Appendix:

1. All references, apart from those in Step 5A, to meters are interval meters.
2. The Notional Wholesale Meter is to be treated as a registered interval meter measuring Temperature Dependent Load. This meter is denoted by Temperature Dependent Load meter  $v=v^*$ .
3. The New Notional Wholesale Meter, determined in accordance with Step 5A, is to be treated as a registered interval meter measuring Temperature Dependent Load.
4. A meter measuring a Facility containing an Intermittent Load, that is and continues to be deemed to be an Intermittent Load under clause 1.48.2, is to be included in these calculations as if it were two meters, one representing the Intermittent Load and included in the set indexed by w, and one representing other load at the Facility and included in the set indexed by u or v as applicable, with metered consumption calculated according to clause 2.30B.10 and clause 11 of this Appendix 5.
5. A meter measuring a Facility containing an Intermittent Load, for which an application was approved under clause 2.30B.6 on or after New WEM Commencement Day, is to be included in these calculations as a single meter representing a Non-Dispatchable Load and included in the set indexed by u or v as applicable, with metered consumption calculated according to clause 2.30B.11 and clause 12 of this Appendix 5.
6. The meter registration data to be used in the calculations is to be the most current complete set of meter registration data as at the time of commencing the calculations.
7. The 12 Peak SWIS Trading Intervals to be used in the calculations are the 12 Peak SWIS Trading Intervals determined and published by AEMO under clause 4.1.23A for the Hot Season preceding the start of the Capacity Year in which Trading Month n falls (the "preceding Hot Season").
8. The 4 Peak SWIS Trading Intervals for a Trading Month to be used in the calculations are the 4 Peak SWIS Trading Intervals determined and published by AEMO under clause 4.1.23B for that Trading Month.

9. When calculating the Indicative Individual Reserve Capacity Requirements it is assumed that all meters registered to a Market Participant on the day of calculation will remain registered to that Market Participant for the entirety of Trading Month n.
  10. A meter measuring a Registered Facility not containing an Intermittent Load is to be included in these calculations and included in the set indexed by u or v as applicable, with metered consumption calculated in accordance with clause 12 of this Appendix 5.
  11. Each meter measuring an Aggregated Facility is to be included as a separate meter and included in the set indexed by u or v as applicable, with metered consumption calculated in accordance with clause 12 of this Appendix 5.
  12. Metered consumption for meter m, in Trading Interval t, is zero when AEMO issues a direction under clause 7.7.5 in respect of an Electric Storage Resource associated with m for a Dispatch Interval within t, otherwise it is  $-1 \times \min(0, \text{SOMS}(m, t))$ , where SOMS(m, t) is the Sent Out Metered Schedule of m in t.
- 68.2 Step 6 in Appendix 5 is amended by deleting the words 'clauses 4.28.8(c) or 4.28.8A' and replacing them with the words 'clause 4.28.8(c)'.
- 69. Appendix 5A amended**
- 69.1 The paragraph commencing 'For the purpose of this Appendix:' in Appendix 5A is amended by:
- (a) deleting the word 'and' at the end of the first bullet point after the word 'calculations);';
  - (b) deleting the full stop at the end of the second bullet point after the word 'Month' and replacing it with the word '; and'; and
  - (c) inserting the following new bullet point immediately after the second bullet point:
    - AEMO must treat:
      - each connection point measured by an interval meter measuring an Aggregated Facility as if it were a separate Non-Dispatchable Load; and
      - each Registered Facility that is not an Aggregated Facility as if it were a single Non-Dispatchable Load.
- 69.2 Step 1 in Appendix 5A is amended by deleting the words 'Market Customer' and replacing them with the words 'Market Participant' in each place where it occurs.
- 69.3 Step 2 in Appendix 5A is amended by deleting the words 'Market Customer' and replacing them with the words 'Market Participant' in each place where it occurs.

**70. Appendix 9 amended**

70.1 Step 3(d) in Appendix 9 is amended by deleting the words 'Network Control Service Contract' and replacing them with 'NCESS Contract'.

**71. Appendix 10 amended**

71.1 Step 2(b)(ii) in Appendix 10 is amended by deleting the words 'Market Customer' and replacing them with the words 'Market Participant'.