

TRANCHE 7: EXPOSURE DRAFT

PROPOSED WHOLESALE ELECTRICITY MARKET (WEM) AMENDING RULES

Explanatory Note for Exposure Draft of the Tranche 7 Proposed WEM Amending Rules

This Exposure Draft contains proposed Amending Rules to:

- require AEMO to record details of directions issued and other actions taken during an Emergency Operating State;
- require AEMO to provide information on SESSM outcomes to the Coordinator as well as the ERA;
- modify the requirements for an Outage Plan submitted by an Impacting Participant;
- clarify the rules around the revision of Outage Plans;
- allow AEMO to relax certain timing requirements for reporting Forced Outage details for some Self-Scheduling Outage Facilities;
- clarify that the Network Access Quantity Model is not required to comply with clause 4.15.9(c) if it is unable to comply concurrently with Appendix 3;
- revise the criteria used by AEMO to decide for which Facilities to determine estimates of Reserve Capacity Obligation Quantities and capacity adjusted outage quantities each Scheduling Day;
- clarify the rules around the inclusion of Constraint Equations in the Dispatch Algorithm that consider the current charge level of an Electric Storage Resource;
- extend the definition of Outage Facility Maintenance to include scenarios where a Planned Outage is required to facilitate work undertaken by other parties;
- reapply changes intended to be implemented through previously made Amending Rules that will not commence due to drafting errors in Ministerial Instruments; and
- make minor error corrections and enhancements across all the WEM Rules.

The Amending Rules in this Exposure Draft are proposed to commence on New WEM Commencement Day.

The draft rules presented in this Exposure Draft are pending legal review. Following industry consultation and legal review, the proposed Amending Rules in this Exposure Draft will be submitted to the Minister for Energy for making and gazettal in September 2023.

Energy Policy WA is seeking stakeholder feedback on this Exposure Draft by 5:00 PM (WST) on 16 August 2023. Feedback can be sent to energymarkets@dmirs.wa.gov.au.

Mark-up Colour guide:

Text in black	Rules that are in force
Text in green	Amending Rules that have been made and will commence on a specified date
Text in blue	Amending Rules that have been made but no commencement date has been specified (it is expected that most of these Amending Rules will be commenced at commencement of the new market)
Text in red - <u>underlined</u> and strikethrough	New amendments proposed under Tranche 7

1.46. Specific Transitional Provisions – Appendix 3

Explanatory Note

Clause 1.46.1(b)(ii) is amended to insert the missing word “clause”.

1.46.1. For the purposes of Appendix 3 and the 2022 Reserve Capacity Cycle:

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- (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 clause 4.14.1(c); and

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

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Explanatory Note

Clause 1.46.12(b) is amended to remove a superfluous “and” at the end of the clause.

1.47.12. By 1 June 2023, 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.

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1.48. Specific Transitional Provisions – Intermittent Loads

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Explanatory Note

Clauses 1.48.5, 1.48.6 and 1.48.7 are amended to correct minor typographical errors and clarify that the clause 2.30B.* references are to clauses in 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~~ clause 2.30B.3 of the Post-Amended Rules to AEMO before 1 July 2023.
- 1.48.6. Notwithstanding clause 1.48.2, a Market Participant for a Facility containing an Intermittent Load must, where clause 2.30B.8E of the Post-Amended Rules 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 of the Post-Amended Rules, 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.

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2.28. Rule Participants

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Explanatory Note

Clause 2.28.16 is amended to insert a missing comma between “2.28.6” and “2.28.7”. Note that the proposed change to this clause (to insert a comma between “2.28.7” and “2.28.8”) in the Tranche 6 Amendments (Schedule E, paragraph 11.2) is not required and will not commence.

- 2.28.16. AEMO may determine that a person is exempted from the requirement to register in accordance with clauses 2.28.2, 2.28.6, 2.28.7, 2.28.10 or 2.28.13. An exemption may be given subject to any conditions AEMO considers appropriate and may, upon prior reasonable notice, be revoked at any time.

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2.30. Facility Aggregation

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Explanatory Note

The Tranche 5 Amendments replaced clause 2.30.6, but an error in the Ministerial Instrument caused the second sentence of the replacement to only be partly included. The clause is further amended to include the missing text.

- 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. An Aggregated Facility which has been registered is taken to be treated as a single Facility for the purpose of these WEM Rules.

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2.42. Margin Call

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Explanatory Note

Clause 2.42.6 is amended to use standard terminology for a section.

- 2.42.6. Where a Market Participant fails to comply with clause 2.42.4 the provisions of clause 9.19 section 9.19 apply.

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3.5. Emergency Operating State

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- 3.5.5. When the SWIS is in an Emergency Operating State, AEMO may in addition to any other ability AEMO has:
- (a) direct any Rule Participant to provide Essential System Services where they are capable of doing so;
 - (b) issue directions to Rule Participants to operate Registered Facilities at a particular level or in a particular way; and
 - (c) take other actions as considered necessary, consistent with good electricity industry practice, in order to return the SWIS from the Emergency Operating State.

Explanatory Note

New clause 3.5.5A requires AEMO to record details of directions issued or other actions taken under clause 3.5.5. The new clause is consistent with existing clause 3.4.5A, which requires AEMO to record similar details in relation to directions issued and actions taken under clauses 3.4.4 and 3.4.5.

3.5.5A. If AEMO issues a direction under clauses 3.5.5(a) or 3.5.5(b), or takes any other action under clause 3.5.5(c), AEMO must record:

- (a) the date and time of the direction or action;
- (b) the name of the Registered Facility or relevant equipment impacted by the direction or action;
- (c) the nature of the direction or action; and
- (d) the reasons for the direction or action.

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System Restart Standard and System Restart Plan

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Explanatory Note

Clause 3.7.13 is amended to correct the use of the defined term Energy Producing System.

- 3.7.13. Unless exempted by AEMO (in its absolute discretion), a Market Participant with a Registered Facility that ~~is an energy producing system~~ contains an Energy Producing System must:
- (a) develop and maintain Local Black Start Procedures in accordance with the guidelines published by AEMO under clause 3.7.12 and any modifications published under clause 3.7.16; and
 - (b) promptly provide the Local Black Start Procedures to AEMO, including any amendments to them.

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Explanatory Note

Clause 3.7.17 is amended to correct the use of the defined term Energy Producing System.

- 3.7.17. Following any modification to the guidelines for Local Black Start Procedures, AEMO may require a Market Participant with a Registered Facility that ~~is an energy producing system~~ contains an Energy Producing System to amend the Local Black Start Procedures for the Registered Facility. Any such request by AEMO must:
- (a) set out the reasons for the requested amendments; and
 - (b) specify a timeframe, which must be reasonable having regard to the extent and complexity of the request, by when the amendments to the Market Participant's Local Black Start Procedures for the Registered Facility must be made.

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Explanatory Note

Clause 3.7.24 is amended to remove the references to “energy producing system(s)” because the intended meaning of this term is inconsistent with the defined term “Energy Producing System”. The replacement wording (“energy producing unit(s)”) is consistent with section 3.8A and the definition of Facility Contingency.

- 3.7.24. Where directed by AEMO, a Market Participant must take all actions necessary to support the enactment of the System Restart Plan, including by:
- (a) committing or de-committing any, or all, of its Facilities, or individual ~~energy producing systems~~ energy producing units within its Facilities, or operating them in a manner required by AEMO;
 - (b) operating a Facility or individual ~~energy producing system~~ energy producing unit or equipment within a Facility in a particular manner, consistent with the relevant Registered Generator Performance Standards or Standing Data for that Facility;
 - (c) providing an Essential System Service if the Facility is accredited for that Essential System Service; and
 - (d) cooperating with any requests from AEMO, including using best endeavours to provide any information requested by AEMO within the time specified by AEMO.

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

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Explanatory Note

Clause 3.11A.5(a) is amended to remove a superfluous word.

- 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.

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Explanatory Note

Clauses 3.11A.8 and 3.11A.9 are amended to correct clause reference errors.

3.11A.8. Where the Coordinator determines under clause ~~3.11.4~~ 3.11A.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)~~ 3.11A.8(d), must commence an NCESS procurement process in accordance with section 3.11B.

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

Expression of interest

Explanatory Note

Clause 3.11B.1 is amended to correct a clause reference error.

3.11B.1. AEMO or the Network Operator, as directed under clause ~~3.11A.8(e)~~ 3.11A.8(d), 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.

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Explanatory Note

Clause 3.11B.7(b) is amended to remove a superfluous comma.

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 intended to be registered under these WEM Rules;
- (b) the name of the Market Participant, or service provider, as applicable, in respect to the facility or equipment;

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3.15. Review of Essential System Service Process and Standards

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Explanatory Note

Clause 3.15.3(c) is amended to remove a superfluous full stop.

3.15.3. The Coordinator must publish a report containing:

- (a) the inputs and results of the technical reviews conducted pursuant to clause 3.15.1A and clause 3.15.1B and cost-benefit studies;
- (b) the submissions received by the Coordinator in the consultation process, a summary of those submissions, and any responses to issues raised in those submissions;
- (c) any recommendations for the inclusion of a new Essential System Service, changes to Essential System Service Standards and the basis for setting Essential System Service requirements; and
- (d) the metrics and targets to be used for ongoing monitoring of Essential System Services.

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3.15A. Supplementary Essential System Service Mechanism (SESSM)

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Explanatory Note

Clause 3.15A.16 is amended to add a full stop to the end of the clause.

3.15A.16. Where the Economic Regulation Authority has designated a Registered Facility pursuant to clause 3.15A.11, the Market Participant responsible for the Registered Facility must submit a SESSM Submission to the SESSM procurement process.

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Explanatory Note

Clause 3.15A.26 is amended to correct a clause reference error.

3.15A.26. Within 20 Business Days of the date and time for lodgement of SESSM Submissions specified in clause 3.15A.19(a), AEMO must:

- (a) select the SESSM Submissions which:
 - i. comply with the requirements of ~~clause 3.15A.24 and clause 3.15A.25~~ clauses 3.15A.24 and 3.15A.25; and
 - ii. meet the SESSM Service Specification which, taken together, in AEMO's opinion will result in the lowest cost of providing the Frequency Co-optimised Essential System Service in accordance with clause 3.15A.27;
- (b) identify the Market Participants and the Facilities who it approves and intends to grant a SESSM Award; and
- (c) notify the Economic Regulation Authority in accordance with clause 3.15A.29.

Explanatory Note

Clause 3.15A.27(g) is amended to insert the missing word "clause".

3.15A.27. When selecting the lowest cost combination of SESSM Submissions in accordance with clause 3.15A.26(a), AEMO must:

- (a) exclude SESSM Submissions that do not comply with the SESSM Service Specification;
- ...
- (g) for submissions provided in accordance with clause 3.15A.21 adjust the SESSM Availability Quantity to account for Network Constraints; and
- ...

Explanatory Note

Clauses 3.15A.29 and 3.15A.30 are amended to require AEMO to provide the relevant information to the Coordinator as well as the ERA. The Coordinator requires the information to support its monitoring of the effectiveness of the market.

3.15A.29. AEMO must notify the Economic Regulation Authority and the Coordinator of the outcome of the SESSM, including providing the Economic Regulation Authority and the Coordinator with the following information:

- (a) the names of the parties and the facility details (including, if already registered, the identity of the Market Participants and the Facilities), it intends to grant a SESSM Award to;
- (b) based on the results from the operation of clause 3.15A.27, the estimated aggregated cost of all SESSM Awards it intends to grant;
- (c) the proposed SESSM Service Commencement Date;

- (d) AEMO's reasonable estimate of the cost of procuring the Frequency Co-optimised Essential System Services based on the historic costs of the Frequency Co-optimised Essential System Services (as if the SESSM Awards it intends to grant were not made); and
- (e) a comparison of the calculated effective Frequency Co-optimised Essential System Service offer prices to the prices for the Frequency Co-optimised Essential System Service in the Real-Time Market within the SESSM Service Timing for the relevant Frequency Co-optimised Essential System Service over the previous 12 months.

3.15A.30. AEMO must provide to the Economic Regulation Authority and the Coordinator all information and data provided by a Market Participant as part of a SESSM Submission within five Business Days of notifying the Economic Regulation Authority and the Coordinator of the outcome of its analysis and selection of SESSM Submissions.

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3.17. Low Reserve Conditions

Explanatory Note

Clause 3.17.1 is amended to correct a clause reference error.

3.17.1. Where AEMO considers that, in accordance with the WEM Procedure referred to in clause 3.17.11, and taking into account the requirements specified in the WEM Procedure referred to in clause ~~3.2.3~~ 3.2.7, for a particular period of time there is a risk of:

- (a) insufficient capacity to meet expected energy demand;
- (b) load shedding in order to maintain Power System Security; or
- (c) an Essential System Service shortfall that compromises AEMO's ability to maintain Power System Security or Power System Reliability,

AEMO may declare a Low Reserve Condition in relation to that period of time (**Low Reserve Condition Declaration**). To avoid doubt, AEMO may make a Low Reserve Condition Declaration in respect of any or all of the matters in this clause 3.17.1 for a period of time in the present or the future.

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3.18B. Submission of Outage Plan

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Explanatory Note

Clause 3.18B.4(b) is amended to correct a typographical error.

3.18B.4. Despite clause 3.18B.8(c)(i), a Market Participant or Network Operator may submit an Outage Plan for approval where, for that Outage Plan ("**Availability Declaration Exemption**"):

- (a) the purpose of the Outage is to conduct Mandatory Routine Maintenance and the following conditions are satisfied:
 - i. the applicable deadline for the proposed Mandatory Routine Maintenance falls within the Outage Period;
 - ii. the Market Participant or Network Operator is aware that if the Mandatory Routine Maintenance is not undertaken before or during the Outage Period that at least one Outage Capability will otherwise suffer an Outage for part of the Outage Period because the applicable deadline for the Mandatory Routine Maintenance will have passed;
 - iii. the Market Participant or Network Operator is not aware of any other reason why, if AEMO rejected the Outage Plan, the relevant Outage Capability would otherwise be affected; and
 - iv. the Outage Plan includes the details of the Mandatory Routine Maintenance; or
- (b) the Outage will immediately follow a Planned Outage of the relevant Outage Capability, AEMO has not received a notification under ~~clauses~~ clause 3.18D.9 in respect of the earlier Planned Outage, and the Market Participant or Network Operator is not aware of any other reason why the relevant Outage Capability would otherwise be affected if the Outage Plan did not proceed.

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3.18C. Outage Coordination

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Explanatory Note

As currently drafted, clause 3.18C.2 prevents an Impacting Participant from submitting an Outage Plan less than six months before the Outage Commencement Interval. This timeframe is longer than needed to undertake any required outage coordination process and does not account for situations where Impacted Participants are happy for the outage to proceed.

To address these concerns, clause 3.18C.2 is amended to require the Impacting Participant to have given the Impacted Participants at least three months' notice of the outage, unless it can obtain written agreement from the Impacted Participants for the outage to proceed.

3.18C.2. An Outage Plan that is submitted by an Impacting Participant, who is aware of an impact, must include a confirmation that the Impacting Participant:

- (a) ~~a confirmation by the Impacting Participant that it has notified the Impacted Participant; and has notified the Impacted Participants of the Outage at least three months prior to the Outage Commencement Interval; or~~

- (b) ~~details of the discussions between the Impacting Participant and Impacted Participants to coordinate the Outage proposed in the Outage Plan and the outcome of those discussions, has written agreement for the Outage to proceed from each Impacted Participant.~~

~~at least 6 months prior to the Outage Commencement Interval.~~

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3.18D. Outage Revision

Explanatory Note

Clause 3.18D.1 is amended to clarify that the deadline for revisions applies to the Outage Completion Interval specified in the Planned Outage.

3.18D.1. A Market Participant or a Network Operator may revise a Planned Outage at any time prior to the ~~completion of~~ Outage Completion Interval specified in the Planned Outage, provided:

- (a) the revised Outage Commencement Interval is not earlier than the previous Outage Commencement Interval;
- (b) the revised Outage Completion Interval is not later than the previous Outage Completion Interval;
- (c) any revised Remaining Available Capacity for the Outage Facility, as relevant, is not proposed to be further reduced from the previous submission; and
- (d) other aspects of the Planned Outage, as specified in the WEM Procedure referred to in clause 3.18.4, are unchanged.

Explanatory Note

Clause 3.18D.2 is amended to clarify that the option for revision under the clause does not apply to approved Outage Plans, and to clarify the test relating to clause 3.18B.8.

3.18D.2. An Outage Plan that has not been approved or rejected by AEMO or withdrawn by the Rule Participant may be revised at any time as long as the ~~revision addresses each of the requirements specified in clause 3.18B.8~~ revised Outage Plan would meet the requirements specified in clause 3.18B.8 if it was submitted as a new Outage Plan at the time of revision.

Explanatory Note

Clause 3.18D.3 is amended to account for revisions made under clause 3.18D.2 as well as those made under clause 3.18D.1.

3.18D.3. AEMO may, but is not required to, undertake an Outage Evaluation for an Outage Plan revised under ~~clause 3.18D.1~~ clauses 3.18D.1 or 3.18D.2 where the reason for the revision is one or more of the following:

- (a) the Outage Period is proposed to be reduced;
- (b) any relevant Remaining Available Capacity for the Outage Facility is proposed to be increased from the previous submission; or
- (c) the Outage Contingency Plan is proposed to be varied.

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3.19. Outage Intention Plans

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Explanatory Note

Clause 3.19.5 is amended to correct a typographical error.

- 3.19.5. AEMO must confirm receipt of an Outage Intention Plan or a revised Outage Intention Plan submitted by a Market Participant or a Network Operator in accordance with ~~clause~~ clauses 3.19.1, 3.19.2 or 3.19.9, as applicable.

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3.21. Forced Outages and Outage Quantity Calculations

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Explanatory Note

Clause 3.21.2 is amended and new clause 3.21.2A added to allow AEMO to exempt a Rule Participant from the requirements of clauses 3.21.2(b)(ii) and 3.21.2(b)(iii) for Forced Outages of a Self-Scheduling Outage Facility where AEMO does not need the relevant information to be provided in the specified timeframes.

- 3.21.2. If an Outage Facility suffers, or will suffer, a Forced Outage, the relevant Market Participant or Network Operator must:
- (a) as soon as practicable after the Market Participant or Network Operator becomes aware of the Forced Outage, notify AEMO in accordance with the WEM Procedure referred to in clause 3.21.10 of:
 - i. the Outage Facility affected by the Outage and, where relevant, each Facility Technology Type of the Outage Facility affected by the Outage;
 - ii. the Outage Capabilities affected by the Outage for the Outage Facility and for each Facility Technology Type of the Outage Facility;
 - iii. the cause of the Outage;
 - iv. the date and time the Outage commenced or is expected to commence;
 - v. the date and time the Outage ended or is expected to end;

- vi. where relevant, an estimate of the Remaining Available Capacity of each Outage Capability for the Outage Facility;
 - vii. where relevant, an estimate of the Remaining Available Capacity for each Facility Technology Type of the Outage Facility; and
 - viii. any other details specified in the WEM Procedure referred to in clause 3.21.10;
- (b) provide AEMO with full available details of the Forced Outage referred to in clause 3.21.2(a), as well as the time that the information required in clause 3.21.2(a) was first notified to AEMO, in accordance with the WEM Procedure referred to in clause 3.21.10:
- i. as soon as practicable;
 - ii. subject to clause 3.21.2A, using best endeavours to provide AEMO with the full available details within 24 hours of the Forced Outage occurring; and
 - iii. subject to clause 3.21.2A, in all cases no later than the end of the next Business Day of the Forced Outage occurring;
- (c) must inform AEMO of any material change to the information provided under this clause as soon as practicable after becoming aware of that change, in the manner prescribed in the WEM Procedure referred to in clause 3.21.10; and
- (d) notwithstanding the requirements of this clause 3.21.2, in respect of each affected Trading Day, as soon as practicable, and in any case no later than the end of the day that is fifteen calendar days after the day on which the Trading Day ends, provide AEMO with any further information or changes to the Forced Outage notification information provided under clause 3.21.2(b).

3.21.2A. A Market Participant or Network Operator is not required to comply with clauses 3.21.2(b)(ii) or 3.21.2(b)(iii) for a Self-Scheduling Outage Facility if AEMO has granted an exemption for the Self-Scheduling Outage Facility in accordance with the process described in the WEM Procedure referred to in clause 3.21.10.

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3.24. Distributed Energy Resources Register

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Explanatory Note

Clause 3.24.11 is amended to use standard terminology for a clause.

- 3.24.11. The WEM Procedure referred to in clause 3.24.8 must include a minimum period of 3 months between the date of publication and the date when the procedure

commences other than when the procedure is amended under ~~paragraph clause~~ 3.24.10, in which case the procedure may commence on the date of publication.

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3B.2. Frequency Bands

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Explanatory Note

Clause 3B.2.5 is amended to correct a clause reference error.

3B.2.5. The Extreme Frequency Tolerance Band represents the frequency operating range that applies to the SWIS Frequency in respect of clause ~~3B.3.9~~ 3B.3.11. The frequency operating range and target timeframes to Stabilise and Recover are set out in Table 1, Appendix 13 for the SWIS and Table 2, Appendix 13 for an Island.

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4.1A. Initial Network Access Quantities for the 2022 Reserve Capacity Cycle and Capacity Credit Uplift

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Explanatory Note

Clause 4.1A.2 is amended to insert the missing word "clause" in two places.

4.1A.2. The Initial Network Access Quantity to be determined by AEMO under clause 4.1A.1 for a Facility is a quantity, in MW, equal to:

- (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 clause 4.14.1(c); and
- (b) for each other Facility, the lesser of:
 - i. the Capacity Credits assigned to the Facility for the 2021 Reserve Capacity Cycle; and
 - ii. the Certified Reserve Capacity assigned to the Facility for the 2022 Reserve Capacity Cycle that is intended to be traded bilaterally in accordance with clause 4.14.1(c).

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4.10. Information Required for the Certification of Reserve Capacity

Explanatory Note

The Tranche 5 Amendments removed the reference to a “part of a Facility” from the header paragraph of clause 4.10.1(m), but an error in the Ministerial Instrument meant that the corresponding change was not made to clause 4.10.1(m)(i). A further amendment is required to fully implement the intended changes.

4.10.1. Each Market Participant must ensure that information submitted to AEMO with an application for certification of Reserve Capacity pertains to the Reserve Capacity Cycle to which the certification relates, and is supported by documented evidence and includes, where applicable, except to the extent that it is already accurately provided in Standing Data, the following information:

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- (m) subject to clauses 4.10A.2 and 4.10A.3, a Market Participant that wishes to nominate that its Facility or an upgrade of its Facility, be classified as a Network Augmentation Funding Facility, must provide to AEMO:
 - i. a notice in writing from the Market Participant nominating that the Facility, ~~part of the Facility~~ or an upgrade of the Facility, as applicable, be classified as a Network Augmentation Funding Facility; and
 - ii. the information specified in clause 4.10A.6.

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4.11. Setting Certified Reserve Capacity

Explanatory Note

Clause 4.11.1(a) is amended to remove superfluous words accidentally included by the Tranche 6 Amendments.

4.11.1. Subject to clause 4.11.12, AEMO must apply the following principles in assigning a quantity of Certified Reserve Capacity to a Facility or relevant component of a Facility for the Reserve Capacity Cycle for which an application for Certified Reserve Capacity has been submitted in accordance with section 4.10:

- (a) the Certified Reserve Capacity for a Non-Intermittent Generating System for a Reserve Capacity Cycle must not exceed AEMO’s reasonable expectation of the amount of capacity likely to be available, after netting off capacity required to serve Loads, for Peak Trading Intervals on Business Days from ~~the start of~~ the start of the Trading Day starting on 1 October of Year 3 of the Reserve Capacity Cycle to the end of the Trading Day starting on 31 July of Year 4 of the Reserve Capacity Cycle, assuming an ambient temperature of 41 degrees Celsius;

...

...

4.15. Network Access Quantity

...

Explanatory Note

Clause 4.15.9 is amended and new clause 4.15.9A inserted to clarify that, if the Network Access Quantity Model is unable to comply concurrently with both Appendix 3 and clause 4.15.9(c), it is not required to comply with clause 4.15.9(c) to the extent necessary to enable it to comply with Appendix 3. This change is necessary as, currently, the rules are unclear that Appendix 3 takes precedence in the event of inconsistency.

- 4.15.9. ~~The Subject to clause 4.15.9A, the~~ principles that must be applied by the Network Access Quantity Model under clause 4.15.7 are:
- (a) where a redispatch is required to avoid a constraint in the RCM Constraint Equations violating it is done so in a way that minimises the total change in output across all Facilities, subject to the NAQ rules as defined in Appendix 3;
 - (b) where multiple Facilities are competing for Network Access Quantity and the available Network Access Quantity is insufficient for all of those Facilities to receive a value equal to the Certified Reserve Capacity for each of those Facilities, the available Network Access Quantity must be allocated in a manner that results in maximising the total Network Access Quantities determined for Facilities;
 - (c) the level of Network access expected to be available to the Facility is equal to at least 95% of the facility dispatch scenarios that could, applying the matters in clause 4.15.5, occur to meet peak demand (as described in clause 4.15.3(c)) on the SWIS for the relevant Capacity Year; and
 - (d) any Certified Reserve Capacity assigned to a Facility in accordance with clause 4.11.1(bD) or clause 4.11.1(bE) is to be treated as unconstrained for the purposes of determining Network Access Quantities for Facilities in accordance with this section 4.15.

4.15.9A. If the Network Access Quantity Model is unable to comply concurrently with both Appendix 3 and clause 4.15.9(c), it is not required to comply with clause 4.15.9(c) to the extent necessary to enable it to comply with Appendix 3.

...

Explanatory Note

Clause 4.15.17 is amended to correct minor typographical errors.

- 4.15.17. AEMO must document in a WEM Procedure:
- (a) the processes, methodologies, inputs, parameters and assumptions to be applied in the Network Access Quantity Model for modelling the

prioritisation and determination of Network Access Quantities ~~to~~ for Facilities under Appendix 3;

- (b) the processes to be followed by AEMO in determining the facility dispatch scenarios under clause 4.15.5;
- (c) the processes AEMO must follow when determining Network Access Quantities for a Reserve Capacity Cycle, including how Network Access Quantities are determined for Facilities;
- (d) the processes to be followed by AEMO for publishing the information under clause 4.15.16;
- (e) without limiting any other provision of these WEM Rules, information that a Market Participant or Network Operator must provide to AEMO and the format it must be provided in, for the purposes of operating the Network Access Quantity Model and determining Network Access Quantities ~~to~~ for Facilities under Appendix 3; and
- (f) any other matters that AEMO reasonably deems relevant to performing its functions under this section 4.15.

...

6.2. Bilateral Submission Timetable and Process

...

Explanatory Note

Due to drafting errors in the Tranches 2 and 3 Amendments, the Amending Rules in paragraph 103.3 of Schedule C will not commence. The intended replacement of clause 6.2.7 is included in these Amending Rules. (Clause 6.2.8 will be set to [Blank] in accordance with paragraph 137.1 of Schedule C of the Tranches 2 and 3 Amendments, and then deleted by the Tranche 6 Amendments.)

~~6.2.7. By making or revising a Bilateral Submission a Market Participant acknowledges that it is acting with the permission of all affected Market Participants.~~

6.2.7. By submitting Bilateral Submission data, a Market Participant acknowledges that it is acting with the permission of all affected Market Participants.

...

6.3A. Information to Support the Bilateral and STEM Submission Process

...

Explanatory Note

Clauses 6.3A.3(g) and 6.3A.3(h) currently require AEMO to determine estimates of Reserve Capacity Obligation Quantities and Capacity Adjusted Outage Quantities each Scheduling Day for each Scheduled Facility or Semi-Scheduled Facility that AEMO considers will be in Commercial

Operation in the relevant Trading Intervals/Dispatch Intervals. The exclusion of Registered Facilities that are not in Commercial Operation is problematic, because:

- AEMO is not sure in advance whether a Facility will be in Commercial Operation, which could lead to a situation where a Facility that was in Commercial Operation does not have the estimate values needed for settlement; and
- the restriction leads to unnecessary IT costs for AEMO.

To address these concerns, the clauses are amended to require the determination of estimates for all Scheduled Facilities and Semi-Scheduled Facilities that are registered to a Market Participant in the relevant Trading Interval Dispatch Interval.

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

- (a) identify and record the details of each approved Commissioning Test Plan that includes one or more Dispatch Intervals in the STEM Submission Information Window;
- ...
- (g) using the assumptions specified in clause 6.3A.4, determine and record an estimate of the Capacity Adjusted Forced Outage Quantity and Capacity Adjusted Planned Outage Quantity for each Scheduled Facility or Semi-Scheduled Facility, and each Separately Certified Component of a Scheduled Facility or Semi-Scheduled Facility, for each Dispatch Interval and each Trading Interval in the STEM Submission Information Window ~~in which AEMO considers the relevant Facility will be in Commercial Operation~~; and
- (h) using the assumptions specified in clause 6.3A.4, determine and record an estimate of the Reserve Capacity Obligation Quantity for each Scheduled Facility or Semi-Scheduled Facility, and each Separately Certified Component of a Scheduled Facility or Semi-Scheduled Facility, for each Dispatch Interval in the STEM Submission Information Window ~~in which AEMO considers the relevant Facility will be in Commercial Operation~~.

...

Explanatory Note

Clauses 6.3A.5(b) and 6.3A.5(c) are amended to reflect the changes made to clauses 6.3A.3(g) and 6.3A.3(h).

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

- (a) for each Trading Interval in the STEM Submission Information Window:
 - i. the Maximum Facility Supply Capability determined on the Scheduling Day under clause 6.3A.3(d) for each Scheduled Facility, Semi-Scheduled Facility and Non-Scheduled Facility registered to the Market Participant in the Trading Interval;

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

...

Explanatory Note

Due to drafting errors in the Tranches 2 and 3 Amendments, the Amending Rules in paragraphs 108.1, 108.3 and 109 of Schedule C will not commence. Instead, the intended changes to clauses 6.3C.1, 6.3C.3, 6.3C.6C, 6.4.1, 6.4.2 and 6.4.3 are included in these Amending Rules.

6.3C. Standing STEM Submission Timetable and Process

~~6.3C.1. A Market Participant may submit Standing STEM Submission data to AEMO on any day between the times of:~~

~~(a) 1:00 PM; and~~

~~(b) 3:50 PM;~~

~~where if accepted by AEMO the data will apply from the commencement of the subsequent Scheduling Day.~~

6.3C.1. A Market Participant may submit Standing STEM Submission data to AEMO at any time.

6.3C.2. [Blank]

~~6.3C.3. When AEMO receives Standing STEM Submission data from a Market Participant during the time interval described in clause 6.3C.1 it must as soon as practical communicate to that Market Participant:~~

~~(a) whether or not AEMO accepts received Standing STEM Submission data as conforming to the requirements of clause 6.6;~~

~~(b) [Blank]~~

~~where, if AEMO accepts the data, AEMO must revise the Standing STEM Submission to reflect that data.~~

6.3C.3. AEMO must, as soon as practicable after receiving Standing STEM Submission data under clause 6.3C.1:

(a) accept the Standing STEM Submission data provided it complies with section 6.6 and revise the Standing STEM Submission to reflect the Standing STEM Submission data; and

(b) notify the Market Participant which submitted the Standing STEM Submission data under clause 6.3C.1 that:

i. AEMO accepts the Standing STEM Submission data and has revised the Standing STEM Submission to reflect the Standing STEM Submission data; or

ii. AEMO rejects the Standing STEM Submission data as it does not comply with section 6.6.

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

6.3C.5. [Blank]

6.3C.6. [Blank]

6.3C.6A. Standing STEM Submission data must be associated with a day of the week and when used as STEM Submission data will only apply to Trading Days commencing on that day of the week.

6.3C.6B. A Market Participant may cancel Standing STEM Submission data accepted by AEMO under clause 6.3C.3(a) for any Trading Interval of a day of the week at any time.

~~6.3C.6C. AEMO must confirm to the Market Participant any cancellation of Standing STEM Submission data made in accordance with clause 6.3C.6B. Where such cancellation is made then AEMO must remove the relevant data from the Standing STEM Submission.~~

6.3C.6C. Where any Standing STEM Submission data is cancelled under clause 6.3C.6B, AEMO must, as soon as practicable:

- (a) remove the cancelled Standing STEM Submission data from the Standing STEM Submission; and
- (b) notify the Market Participant which cancelled the Standing STEM Submission data under clause 6.3C.6B, that the cancelled Standing STEM Submission data has been removed from the Standing STEM Submission, for the Trading Interval of the day of the week to which the cancelled Standing STEM Submission data relates.

6.3C.7. [Blank]

6.3C.8. [Blank]

6.3C.9. If a Market Participant's ability to consume or supply energy in any Trading Interval of a Trading Day is less than the maximum level of its STEM supply or consumption as indicated by its current Standing STEM Submission then that Market Participant must either:

- (a) submit to AEMO Standing STEM Submission data so as to revise its Standing STEM Submission to comply with this clause 6.3C.9; or
- (b) for each Trading Interval for which the current Standing STEM Submission over-states the Market Participant's supply or consumption capabilities, submit STEM Submission data that complies with section 6.6 to AEMO.

6.4. The STEM Auction Timetable and Process

~~6.4.1. AEMO must undertake the process described in section 6.9 and determine the STEM Auction results for a Trading Day after 10:50 AM, and before 11:30 AM, on the relevant Scheduling Day.~~

~~6.4.2. AEMO must determine the total quantity of energy scheduled to be supplied under Bilateral Contracts and in the STEM Auction, by each Market Participant, for each Trading Interval of a Trading Day by 11:30 AM on the relevant Scheduling Day.~~

~~6.4.3. AEMO must make available to each Market Participant the following information in relation to a Trading Day by 11:30 AM on the relevant Scheduling Day:~~

- ~~(a) the Trading Intervals, if any, in which the STEM Auction was suspended;~~
- ~~(b) the STEM Clearing Price in all Trading Intervals for which the STEM Auction was not suspended;~~
- ~~(c) the quantities scheduled in respect of that Market Participant in the STEM Auction for each Trading Interval; and~~
- ~~(d) the Net Contract Position of the Market Participant in each Trading Interval, as determined in accordance with clause 6.9.13.~~

- 6.4.1. AEMO must undertake the process described in section 6.9 and determine the STEM Auction results for a Trading Day after the STEM Submission Cutoff, and before the STEM Results Deadline.
- 6.4.2. AEMO must determine the total quantity of energy scheduled to be supplied under Bilateral Contracts and in the STEM Auction, by each Market Participant, for each Trading Interval of a Trading Day by the STEM Results Deadline.
- 6.4.3. AEMO must make available to each Market Participant the following information in relation to a Trading Day by the STEM Results Deadline:
- (a) the Trading Intervals, if any, in which the STEM Auction was suspended;
 - (b) the STEM Clearing Price in all Trading Intervals for which the STEM Auction was not suspended;
 - (c) the quantities scheduled in respect of that Market Participant in the STEM Auction for each Trading Interval; and
 - (d) the Net Contract Position of the Market Participant in each Trading Interval, as determined in accordance with clause 6.9.13.

...

7.2. Central Dispatch Process

...

Explanatory Note

Clause 7.2.5(a)(vi) is amended to include full stop after the clause number.

- 7.2.5. AEMO must develop and document in a WEM Procedure:
- (a) the Dispatch Algorithm used by AEMO for the purpose of the Central Dispatch Process and setting Market Clearing Prices and the mathematical formulation of the Dispatch Algorithm, including:
 - i. the conversion of Facility Speed Factors into Facility Performance Factors;
 - ii. the calculation of Minimum RoCoF Control Requirement and Additional RoCoF Control Requirement;
 - iii. the calculation of the required quantity of Contingency Reserve Raise; and
 - iv. the maximum number of Price-Quantity Pairs that may be included in a Real-Time Market Submission for a Dispatch Interval for each Market Service,in a form that:
 - v. sets out the form, scope and construction of each type of Constraint Equation;

- vi. describes and quantifies the mechanism by which different Constraints are taken into account and prioritised, including in accordance with clauses 3.12.2 and 7.6.25; and
 - vi. AEMO reasonably considers will enable a third party, such as the Market Auditor or the Economic Regulation Authority, to replicate the results of the Dispatch Algorithm by using the same inputs;
- (b) the methodology it uses to determine:
- i. Contingency Raise Offsets;
 - ii. Contingency Lower Offsets;
 - iii. Facility Performance Factors;
 - iv. the Minimum RoCoF Control Requirement;
 - v. the Additional RoCoF Control Requirement;
 - vi. the RoCoF Control Requirement; and
 - vii. the RoCoF Upper Limit;
- (c) the processes to be followed by AEMO and Market Participants in accounting for Inflexible Facilities; and
- (d) any methodology for replacement of erroneous input data or substitution for missing input data.

...

7.4. Real-Time Market Submissions

...

Explanatory Note

Clause 7.4.26 is amended to insert two missing hyphens from the header paragraph.

- 7.4.26. Where a Market Participant makes a Real-Time Market Submission for a Registered Facility and Market Service for a Dispatch Interval in the ~~Pre-Dispatch~~ Pre-Dispatch Schedule Horizon (including by submitting a new ~~Standing Real Time~~ Standing Real-Time Market Submission for the Registered Facility and Market Service), the Market Participant must:
- (a) specify the reason for the revision in the subsequent Real-Time Market Submission, and
 - (b) create and maintain adequate detailed records (that are capable of independent verification) of the reasons for submitting the subsequent Real-Time Market Submission, including details of any changed circumstances, the time at which the Market Participant became aware of those changed circumstances and the impact of those circumstances that gave rise to the subsequent Real-Time Market Submission.

...

7.5. Dispatch Algorithm

...

Explanatory Note:

Clauses 7.5.9, 7.5.10 and 7.5.10A cover the inclusion of Constraint Equations relating to Energy Storage Constraints for Facilities containing Energy Storage Resources. Several changes are required to clarify the intent of the clauses. The changes include:

- removal of clause 7.5.9, which serves no purpose given the existence of clauses 7.5.10 and 7.5.10A;
- clarifying that the Constraint Equations under consideration are only an option for Scheduled Facilities that comprise only Electric Storage Resources; and
- clarifying the condition governing whether Constraint Equations are to be included in the Dispatch Algorithm, i.e. that the Market Participant chooses that AEMO should include the Constraint Equations).

A new Standing Data item will be added to Appendix 1(b) to allow the Market Participant to indicate its preference.

7.5.9. ~~For a Scheduled Facility that comprises only Electric Storage Resources, AEMO may include Constraint Equations relating to restrictions on the simultaneous dispatch of energy and Frequency Co-optimised Essential System Services, to ensure that Dispatch Targets and Essential System Service Enablement Quantities for the Scheduled Facility are able to be achieved based on the Charge Level, storage capacity, Injection capability and Withdrawal capability for the Scheduled Facility, accounting for relevant losses in the charging or discharging process.~~ [Blank]

7.5.10. ~~For Registered Facilities which the Market Participant notified AEMO that operation of the Registered Facility is subject to Energy Storage Constraints~~ If a Market Participant requires this under Appendix 1(b)(xviA), AEMO must include Constraint Equations for a Scheduled Facility which comprises only an Electric Storage Resource relating to restrictions on the simultaneous dispatch of energy and Frequency Co-optimised Essential System Service, to ensure that Dispatch Targets and Essential System Service Enablement Quantities for the Registered Scheduled Facility are able to be achieved based on the Charge Level, storage capacity, Injection capability and Withdrawal capability for the Scheduled Facility, accounting for relevant losses in the charging or discharging process.

7.5.10A. ~~Where a Market Participant notifies AEMO that operation of a Registered Facility is not subject to Energy Storage Constraints, AEMO must not include Constraint Equations in the Dispatch Algorithm for that a Registered Facility under clause 7.5.10 if the responsible Market Participant has not required this under Appendix 1(b)(xviA).~~

...

7.6. Dispatch

...

Explanatory Note

Due to a drafting error in the Tranche 6 Amendments, the Amending Rules in paragraph 85.26 of Schedule E will not commence. Instead, the intended change to clause 7.6.31 is included in these Amending Rules.

- 7.6.31. Where a Market Participant reasonably expects that its ~~Registered Facility~~ Scheduled Facility or Semi-Scheduled Facility will be unable to comply with a Dispatch Instruction for the Registered Facility in a future Dispatch Interval, the Market Participant must immediately:
- (a) amend its Real-Time Market Submission for the Registered Facility by specifying:
 - i. the Registered Facility is Inflexible in the relevant Dispatch Interval; and
 - ii. a single offer tranche which specifies the fixed level of Injection, Withdrawal, or Frequency Co-optimised Essential System Service enablement, at which the Registered Facility must be operated in the Dispatch Interval;
 - (b) provide AEMO with a reason why the Registered Facility is Inflexible which must be able to be independently verified; and
 - (c) if required, submit any Outages for the Registered Facility in accordance with section 3.21.

...

7.10. Compliance with Dispatch Instructions

...

Explanatory Note

Paragraph 49.1 of Schedule H of the Tranche 5 Amendments sought to extend the scope of clause 7.10.20 to include Contingency Reserve Lower as well as Contingency Reserve Raise. However, the Amending Rule will not commence due to ambiguity in the drafting. Instead, the intended change is included in these Amending Rules.

- 7.10.20. A Registered Facility that has been accredited in accordance with section 2.34A to provide Contingency Reserve ~~Raise~~ subject to a Maximum Contingency Reserve Block Size may respond to a Contingency Event using the whole quantity of all cleared or partially cleared Contingency Reserve ~~Raise~~ Price-Quantity Pairs.

...

7.11. Market Advisories

...

Explanatory Note

Clause 7.11.4 is amended to remove a superfluous word.

- 7.11.4. AEMO must withdraw a Market Advisory and ~~inform~~ notify Market Participants, Network Operators and the Economic Regulation Authority of the withdrawal of a Market Advisory as soon as practicable once the situation that the Market Advisory relates to has finished.

...

7.14. Calculation of Congestion Rental

Explanatory Note

Due to a drafting error in the Tranche 6 Amendments, the Amending Rules in paragraph 100.1 of Schedule E will not commence. Instead, the intended change to the header of clause 7.14.1 is included in these Amending Rules.

- 7.14.1. AEMO must calculate for each ~~Registered Facility~~ Scheduled Facility or Semi-Scheduled Facility and each Dispatch Interval of a Trading Day, the Congestion Rental in respect of the full set of Network Constraints. The Congestion Rental for Registered Facility f in Dispatch Interval DI is:

$$\text{CongestionRental}(f,DI)=\sum_{n \in N} \text{CongestionCoefficient}(f,n,DI) \times \text{MarginalConstraintValue}(n,DI)$$

Where:

- (a) $\text{ConstraintCoefficient}(f,n,DI)$ is the coefficient of Registered Facility f in respect of the cleared energy quantity of Registered Facility f in Network Constraint n in Dispatch Interval DI ;
- (b) $\text{MarginalConstraintValue}(n,DI)$ is the marginal value of Network Constraint n in Dispatch Interval DI ; and
- (c) $n \in N$ denotes all Network Constraints applied in Dispatch Interval DI .

...

8.6. Format of Meter Data Submissions

Explanatory Note

Clause 8.6.1 is amended to use standard terminology for clause references.

- 8.6.1. A Meter Data Submission must comprise:
- (a) the identity of the Metering Data Agent;

- (b) the Trading Week to which the meter data relates;
- (c) for each interval meter and each Trading Interval in the Trading Week in the Meter Data Submission described in ~~paragraph (b)~~ clause 8.6.1(b):
 - i. the identity of the meter;
 - ii. the MWh quantity measured by the meter; and
 - iii. whether the quantity described in ~~paragraph (ii)~~ clause 8.6.1(c)(ii) is based on an actual meter reading or an estimate, and if based on an estimate, the applicable code describing the reason for the estimate;
- (d) [Blank]; and
- (e) meter adjustments that stem from actual or revised meter data becoming available or from the resolution of a dispute concerning meter data (“Meter Dispute”) in accordance with the dispute resolution process in the applicable Metering Protocol, including:
 - i. for each interval meter and each Trading Interval in the Trading Week to which a Meter Dispute has resulted in changes to meter data:
 - 1. the MWh quantity for that meter;
 - 2. whether the quantity described in ~~paragraph (1)~~ clause 8.6.1(e)(i)(1) is based on an actual meter reading or an estimate, and if based on an estimate, the applicable code describing the reason for the estimate; and
 - 3. the applicable code describing the reason for the change in the MWh quantity relative to the previously stated value.

...

9.5. The Metered Schedule

...

Explanatory Note

Clause 9.5.2 is amended to correct a clause reference error.

- 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)~~ 7.13.1E(aA) where interval meter data is not available.

...

Explanatory Note

Clause 9.5.8 is amended to use standard numbering for the two sub-clauses.

9.5.8. AEMO must calculate the total Consumption Contributing Quantity for all Market Participants for a Trading Interval. The TotalConsumptionContributingQuantity(t) for all Market Participants in Trading Interval t is:

$$\text{TotalConsumptionContributingQuantity}(t) = \sum_{p \in P} \text{ConsumptionContributingQuantity}(p,t)$$

where:

~~i. ConsumptionContributingQuantity(p,t) is the Consumption Contributing Quantity for Market Participant p in Trading Interval t as determined in clause 9.5.7; and~~

~~ii. p ∈ P denotes all Market Participants.~~

(a) ConsumptionContributingQuantity(p,t) is the Consumption Contributing Quantity for Market Participant p in Trading Interval t as determined in clause 9.5.7; and

(b) p ∈ P denotes all Market Participants.

...

9.9. Settlement Calculations – Real-Time Energy

...

Explanatory Note

Clause 9.9.9 is amended to insert a missing right-hand bracket in the IsMisPriced(f,DI) formula (after FacilitiesInBindingNCESS(c,DI)).

9.9.9. The mispricing trigger for Registered Facility f in Dispatch Interval DI is:

$$\text{IsMisPriced}(f,DI) = \begin{cases} 1, & \text{if ClearedQuantity}(f,DI) > 0 \\ & \text{and CongestionRental}(f,DI) > 0 \\ & \text{and MarginalOfferPrice}(f,DI) > \text{Energy_MCP}(DI) \\ & \text{and } f \notin \text{FacilitiesInBindingDownRampRate}(DI) \\ & \text{and } f \notin \text{FacilitiesInBindingESSEnablementMinimum}(DI) \\ & \text{and } \forall c (f \notin \text{FacilitiesInBindingNCESS}(c,DI)) \\ 0, & \text{otherwise} \end{cases}$$

where:

...

...

Explanatory Note

Clause 9.9.15(a) is amended to insert the missing word “clause”.

9.9.15. The energy uplift recoverable from Market Participant p for Trading Interval t is:

$$\text{EnergyUplift_Recoverable}(p,t) = \text{EnergyUplift_Recoverable}(t) \times \text{ConsumptionShare}(p,t)$$

where:

- (a) EnergyUplift_Recoverable(t) is the total amount of energy uplift recoverable in Trading Interval t from all Energy Uplift Payments made to all Market Participants in that Trading Interval calculated in accordance with clause 9.9.14; and
- (b) ConsumptionShare(p,t) is the Consumption Share for Market Participant p for Trading Interval t as calculated in accordance with clause 9.5.6.

...

9.10. Settlement Calculations - Essential System Services

...

Explanatory Note

Clause 9.10.28 is amended to correct a typographical error (formula term should be “SRS_Recoverable”, not “SRS_Rcoverable”).

9.10.28. The Essential System Service amount recoverable from Rule Participant p for Trading Day d is:

$$\begin{aligned} & \text{ESS_Recoverable}(p,d) - \text{CR_Recoverable}(p,d) + \text{CL_Recoverable}(p,d) + \\ & \text{RGS_Recoverable}(p,d) + \text{Regulation_Recoverable}(p,d) + \text{SRS_Recoverable}(p,d) \\ & - \text{NCESS_Recoverable}(p,d) \\ & \text{ESS_Recoverable}(p,d) = \text{CR_Recoverable}(p,d) + \text{CL_Recoverable}(p,d) + \end{aligned}$$

$$\underline{RCS_Recoverable(p,d) + Regulation_Recoverable(p,d) + SRS_Recoverable(p,d) + NCESS_Recoverable(p,d)}$$

where:

- (a) CR_Recoverable(p,d) is the Contingency Reserve Raise amount recoverable from Market Participant p for Trading Day d calculated in accordance with clause 9.10.29;
- (b) CL_Recoverable(p,d) is the Contingency Reserve Lower amount recoverable from Market Participant p for Trading Day d calculated in accordance with clause 9.10.31;
- (c) RCS_Recoverable(p,d) is the RoCoF Control Service amount recoverable from Rule Participant p for Trading Day d calculated in accordance with clause 9.10.33;
- (d) Regulation_Recoverable(p,d) is the Regulation amount recoverable from Market Participant p for Trading Day d calculated in accordance with clause 9.10.35; and
- (e) SRS_Recoverable(p,d) is the System Restart Service amount recoverable from Market Participant p for Trading Day d calculated in accordance with clause 9.10.40; and
- (f) 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.

...

9.11. Settlement Calculations - Outage Compensation

...

Explanatory Note

Clause 9.11.4 is amended to correct a clause reference error.

- 9.11.4. The Outage Compensation payable to Market Participant p for Trading Interval t is:

$$OC_Payable(p,t) = \sum_{f \in p} OC_Payable(f,t)$$

where:

- (a) OC_Payable(f,t) is the Outage Compensation payable for Registered Facility f in Trading Interval t as calculated under clause ~~3.18H.5(a)~~ 3.18H.5(c); and
- (b) $f \in p$ denotes all Registered Facilities f registered to Market Participant p.

...

9.19. Default

...

Explanatory Note

Clause 9.19.2(d) is amended to use standard terminology for referencing clauses.

9.19.2. A person is insolvent for the purposes of clause 9.19.1 if:

- (a) the person states that it is insolvent or insolvent under administration (each as defined in the Corporations Act) or that it is unable to pay from its own money its debts when they fall due for payment;
- (b) the person is protected from creditors under any statute or enters into an arrangement (including a scheme of arrangement), composition or compromise with, or assignment for the benefit of, all or any class of its creditors or members or a moratorium involving any of them;
- (c) an application or order for winding up or dissolution is made in respect of the person;
- (d) a controller (as defined in the Corporations Act), administrator, provisional liquidator, liquidator, trustee in bankruptcy or person having a similar or analogous function under the laws of any relevant jurisdiction is appointed in respect of the person or any of the person's property (as the case may be);
- (e) the person is taken to be unable to pay its debts when they fall due for payment under any applicable legislation;
- (f) any action is taken by, or in connection with, the person which is preparatory to, or could result in, any of the events described in ~~paragraphs (b), (c), (d) or (e) above~~ clauses 9.19.2(b), 9.19.2(c), 9.19.2(d) or 9.19.2(e);
- (g) the person is the subject of an event described in section 459C(2) or section 585 of the Corporations Act (or the person makes a statement from which AEMO reasonably deduces the person is so subject); or
- (h) notice under section 601AB(3) of the Corporations Act is given in relation to the person.

...

9.20. Settlement in Default Situations

...

Explanatory Note

Clause 9.20.3 is amended to correct clause reference errors.

- 9.20.3. Notwithstanding anything else in these WEM Rules, if at any time the total amount received by AEMO from Rule Participants in cleared funds, including any payments from AEMO on behalf of the Economic Regulation Authority under clause ~~9.15.8~~ 9.15.9 and the Coordinator under clause ~~9.15.9~~ 9.15.10 (“**Total Amount**”) is not sufficient to make the payments which AEMO is required to make under these WEM Rules (for example, as a result of default by one or more Rule Participants), then AEMO’s liability to make those payments is limited to the Total Amount.

...

Explanatory Note

Clause 9.20.5(a) is amended to correct a clause reference error.

- 9.20.5. If AEMO has reduced any payment under clause 9.20.4 as a result of a Payment Default and, within five Business Days of the Payment Default, it has received full or partial payment of the overdue amount, then AEMO must within one Business Day apply the amount received (including any interest paid under clause 9.18.7 in respect of the Payment Default) as follows.
- (a) First, AEMO must apply the amount received to pay parties who suffered a reduction under clause 9.20.4(a). The amount payable by AEMO to each party is equal to the amount by which that party’s payment was originally reduced under clause 9.20.4(a), adjusted to reflect interest accrued in accordance with clause ~~9.1.3~~ 9.1.4 and any payments already made under this clause 9.20.5. However, if the amount received by AEMO is less than the total amount payable to these parties then AEMO must reduce the payments proportionally. Each payment will be based on the proportion that the amount received by AEMO bears to the total amount payable under this clause 9.20.5(a).
 - (b) Second, AEMO must apply the remainder on a pro-rata basis to all Rule Participants who suffered a reduction under clause 9.20.4(b). The amount to be paid to each relevant Rule Participant is determined by applying the formula in clause 9.20.4(b), but as if:
 - i. AAP referred to the amount to be paid to each relevant Rule Participant;
 - ii. MAA referred to the remainder of the full or partial payment after the application of clause 9.20.5(a); and
 - iii. NAP and TNAP have the same values as when the reduction was calculated.

...

10 Market Information

Information Policy

10.1. Record Retention

- 10.1.1. The Coordinator, the Economic Regulation Authority and Rule Participants must retain any information or documents that are required to be collected, produced or exchanged under these WEM Rules or the WEM Procedures for a period of seven years from the date it is created, or such longer period as may be required by law.

Explanatory Note

The section 10.2 heading was accidentally deleted in the Tranche 6 Amendments and needs to be restored.

10.2. Information Confidentiality Status

- 10.2.1. Subject to clause 10.2.1B, an Information Manager must, in accordance with the WEM Rules and WEM Procedures, determine the confidentiality status for each type of Market Information it is responsible for under clause 10.2.12.

...

Explanatory Note

The section 10.3 heading is amended to use standard formatting.

~~10.3. Public website requirements~~ Website Requirements

- 10.3.1. The Coordinator, the Economic Regulation Authority, AEMO and each Network Operator must maintain a website for the purpose of publishing Market Information as required under these WEM Rules or the WEM Procedures.

...

Explanatory Note

The section 10.5 heading is amended to use standard formatting.

~~10.5. Resolving disputes regarding~~ Disputes Regarding the disclosure Disclosure of Market Information

- 10.5.1. If the Coordinator receives notice of a dispute in accordance with clauses 10.4.14, 10.4.21 or 10.4.22, the Coordinator must resolve the dispute in accordance with this section 10.5.

...

11. Glossary

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Explanatory Note

Definitions for specific Reserve Capacity Cycles are no longer required because clause 4.1.3 now specifies that a Reserve Capacity Cycle is identified by reference to the calendar year in which Year 1 of the Reserve Capacity Cycle falls.

~~**2016 Reserve Capacity Cycle:** Means the Reserve Capacity Cycle:~~

- ~~(a) in which Year 1 of that Reserve Capacity Cycle is 2016; and~~
- ~~(b) which relates to Reserve Capacity required between 1 October 2018 and 1 October 2019.~~

~~**2017 Reserve Capacity Cycle:** Means the Reserve Capacity Cycle:~~

- ~~(a) in which Year 1 of that Reserve Capacity Cycle is 2017; and~~
- ~~(b) which relates to Reserve Capacity required between 1 October 2019 and 1 October 2020.~~

~~**2018 Reserve Capacity Cycle:** Means the Reserve Capacity Cycle:~~

- ~~(a) in which Year 1 of that Reserve Capacity Cycle is 2018; and~~
- ~~(b) which relates to Reserve Capacity required between 1 October 2020 and 1 October 2021.~~

~~**2019 Reserve Capacity Cycle:** Means the Reserve Capacity Cycle:~~

- ~~(a) in which Year 1 of that Reserve Capacity Cycle is 2019; and~~
- ~~(b) which relates to Reserve Capacity required between 1 October 2021 and 1 October 2022.~~

...

Explanatory Note

The definition of External Constraint is no longer required.

~~**External Constraint:** Means an event impacting the operation of the whole of the SWIS, or any significant part of it.~~

...

Explanatory Note

The definition of IMS is no longer required.

~~**IMS:** Mean the Information Management System.~~

...

Explanatory Note

The definition of Internal Constraint is no longer required.

~~**Internal Constraint:** In relation to a Facility, an event that is not an External Constraint and which adversely impacts the sent out capacity of the Facility.~~

...

Explanatory Note

The definitions of Load Following Service and Load Forecast are no longer required.

~~**Load Following Service:** Has the meaning given in clause 3.9.1.~~

~~**Load Forecast:** An expectation of the demand levels in the SWIS or in a region of the SWIS in future Trading Intervals.~~

...

Explanatory Note

The definition of Minimum Frequency Keeping Capacity is no longer required.

~~**Minimum Frequency Keeping Capacity:** Has the meaning given in clause 3.10.1(a).~~

...

Explanatory Note

The definition of Off-Peak Trading Interval is no longer required.

~~**Off-Peak Trading Interval:** A Trading Interval occurring between 10 PM and 8 AM.~~

...

Explanatory Note

The definition of Outage Facility Maintenance is amended to account for scenarios where Western Power may require a Planned Outage to either allow a third party to undertake a necessary activity (e.g. by temporarily removing power lines) or facilitate the Planned Outage of a Market Participant.

Outage Facility Maintenance: Means an Outage for the purpose of:

- (a) an upgrade of Outage Facility equipment; ~~or~~
- (b) all maintenance in respect of an Outage Facility, including but not limited to preventative maintenance, corrective maintenance, plant inspections and tests, that would reasonably be required in accordance with good electricity industry practice; ~~;~~
- (c) allowing for the safe conduct of work in proximity to an Outage Facility; or

(d) allowing for the Planned Outage of another Outage Facility to proceed.

...

Explanatory Note

The definition of Ramp Rate Limit is amended to remove the out-of-date reference to DSP Ramp Rate Limits and to refer to the commencement of a Dispatch Interval rather than the commencement of a Trading Interval.

Ramp Rate Limit: Means the Market Participant's best estimate, in MW per minute, on a linear basis, of a Facility's physical ability to increase or decrease its output from the commencement of a Trading Dispatch Interval, ~~and includes a DSP Ramp Rate Limit.~~

...

Explanatory Note

The definition of Ready Reserve Standard is no longer required.

~~**Ready Reserve Standard:** Has the meaning given in clause 3.18.11A.~~

...

Explanatory Note:

Appendix 1(b) is amended to add a new Standing Data item to allow a Market Participant to indicate its preference as to whether AEMO should include Constraint Equations relating to Energy Storage Constraints for its Scheduled Facility.

Appendix 1: Standing Data

...

(b) For a Scheduled Facility:

...

xvi. details of any potential energy limits of the Facility;

xviA. if the Facility comprises only an Electric Storage Resource, whether the Market Participant requires AEMO to include Constraint Equations in the Dispatch Algorithm under clause 7.5.10 relating to restrictions on the simultaneous dispatch of energy and Frequency Co-optimised Essential System Service;

...

(c) For a Semi-Scheduled Facility:

...

...