



REQUEST FOR WESM RULES AMENDMENTS

Proposals made only under this prescribed form shall be accepted and considered as submitted.

This request for amendments to the WESM Rules can be submitted to:

PEM Board

Attention: **PEM Committee Secretariat**
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I. Proposer's Information

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II. WESM Rules Amendment Information

Topic	: Implementation of Enhancement to the WESM Design and Operations
Nature of Request (please indicate with x) <input checked="" type="checkbox"/> Addition <input checked="" type="checkbox"/> Alteration <input checked="" type="checkbox"/> Deletion <input checked="" type="checkbox"/> Clarification <input checked="" type="checkbox"/> Clerical Correction	

III. Proposed Amendment

Title	Section	Provision	Proposed Amendment	Rationale
Responsibilities of the Market Operator	1.3.1.2	In performing clause 1.3.1.1 (d), the Market Operator shall: (a) xxx (b) Identify any significant variations in and between trading intervals; and xxx	In performing clause 1.3.1.1 (d), the Market Operator shall: (a) xxx (b) Identify any significant variations in and between trading intervals accordance with the guidelines in clause 1.3.1.3 ; and xxx	To clarify that the provision should be read together with clause 1.3.1.3.
Generation Company	2.3.1.3	A generating unit or a group of generating units connected at a common connection point with a nameplate rating or a combined nameplate rating of greater than or one tenth of one percent (> 0.1%) of the peak load in a particular reserve region shall be classified as a scheduled generating unit.	A generating unit or a group of generating units connected at a common connection point with a nameplate rating or a combined nameplate rating of greater than or one tenth of one percent (> 0.1%) of the peak load in a particular reserve region area shall be classified as a scheduled generating unit.	Global change of reserve region to reserve area . This is to differentiate the use of area and region . Region refers to the 3 major grids: Luzon, Visayas, and Mindanao. On the other hand, area now refers to the reserve area as determined by the Market Operator, in consultation with the System Operator, and approved by the ERC (refer to clause 3.3.4.3, as revised).
Generation Company	2.3.1.4	A generating unit or a group of generating units connected at a common connection point with a nameplate rating and a combined nameplate rating of less than one tenth of one percent (< 0.1%) of the peak load in a particular reserve region, or less than ten percent (< 10%) of the size of interconnection facilities, whichever is lower, shall be classified as a non-scheduled generating unit, but may at its option be classified as a scheduled generating unit.	A generating unit or a group of generating units connected at a common connection point with a nameplate rating and a combined nameplate rating of less than one tenth of one percent (< 0.1%) of the peak load in a particular reserve region , area or less than ten percent (< 10%) of the size of interconnection facilities, whichever is lower, shall be classified as a non-scheduled generating unit, but may at its option be classified as a scheduled generating unit.	Same as clause 2.3.1.3
Generation Company	2.3.1.7	A Scheduled Generation Company is required to operate any scheduled generating unit in	A Scheduled Generation Company is required to operate any scheduled generating units in	Proposed adoption of dispatch conformance standards , which

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		accordance with the scheduling and dispatch procedures described in chapter 3, within the dispatch tolerances specified in accordance with clause 2.3.3.5.	accordance with the scheduling and dispatch procedures described in chapter 3, within and in accordance with the dispatch tolerances conformance standards specified in accordance with clause 2.3.3.5.	refer to the compliance requirements that should be met by scheduled generating units and ancillary services providers. Such standards shall be established in accordance with clause 3.8.7, as revised.
Trading Participant	2.3.3.5	Prior to registration of a Trading Participant in respect of a scheduled generation unit or scheduled load facility, an Intending WESM member may seek a ruling from the System operator with respect to the dispatch tolerances to be applied.	Prior to registration of a Trading Participant in respect of a scheduled generation unit or scheduled load facility, an Intending WESM member may seek a ruling from the System operator with respect to the dispatch tolerances conformance standards to be applied.	Same as clause 2.3.1.7.
Trading Participant	2.3.3.6	If no prior ruling is sought under clause 2.3.3.5, the System operator shall make a ruling with respect to dispatch tolerances upon registration of that Trading Participant.	If no prior ruling is sought under clause 2.3.3.5, the System operator shall make a ruling with respect to dispatch tolerances conformance standards upon registration of that Trading Participant.	Same as clause 2.3.1.7.
Trading Participant	2.3.3.9	If at any time a Trading Participant ceases to be eligible to be registered as a Trading Participants accordance with clause 2.3.3.4, that Trading Participant shall inform the Market Operator accordingly and, as soon as practicable after the Market Operator becomes aware that a Trading Participant is no longer eligible to be registered, the Market Operator shall issue a suspension notice in respect of that Trading Participant in accordance with clause 3.15.7.	If at any time a Trading Participant ceases to be eligible to be registered as a Trading Participants accordance with clause 2.3.3.4, that Trading Participant shall inform the Market Operator accordingly and, as soon as practicable after the Market Operator becomes aware that a Trading Participant is no longer eligible to be registered, the Market Operator shall issue a suspension notice in respect of that Trading Participant in accordance with clause 3.15.7.	Correction of clerical error. Issuance of suspension notice is provided under 3.15.8.
Ancillary Services Provider	2.3.5.3	xxx (c) Determine to which reserve region each reserve facility for which registration is sought may belong, depending on the ability of that	xxx (c) Determine to which reserve region area each reserve facility for which registration is sought may belong, depending on the ability of	<ul style="list-style-type: none"> • Same as clause 2.3.1.3 • Amendment in (d) is in accordance with the

Title	Section	Provision	Proposed Amendment	Rationale
		reserve facility to apply reserve to meet the corresponding locationally specific reserve requirement; and (d) Provide written authorization to the Market Operator which sets out the relevant information determined under clauses 2.3.5.3 (a), (b) and (c).	that reserve facility to apply reserve to meet the corresponding locationally specific reserve requirement; and (d) Provide written authorization certification to the Market Operator which sets out the relevant information determined under clauses 2.3.5.3 (a), (b) and (c).	certification being provided by the SO
Ancillary Services Provider	2.3.5.4	A Trading Participant and a Network Services Provider shall not be paid or compensated for providing ancillary services or reserves unless: xxx (b) Registered as an Ancillary Services Provider for provision of the relevant reserve category in that relevant reserve region in accordance with clause 2.3.5.1.	A Trading Participant and a Network Services Provider shall not be paid or compensated for providing ancillary services or reserves unless: xxx (b) Registered as an Ancillary Services Provider for provision of the relevant reserve category in that relevant reserve region area in accordance with clause 2.3.5.1.	Same as clause 2.3.1.3
Ancillary Services Provider		NEW	<u>2.3.5.5 Ancillary Services Providers shall be required to comply with the dispatch conformance standards specified in clause 3.8.5.</u>	To ensure compliance with dispatch conformance standards by Ancillary Services Providers.
Effect of a Suspension Notice	2.7.2	If a Trading Participant who is either a Direct WESM member or an Indirect WESM member receives a suspension notice from the Market Operator in accordance with any provision of the WESM Rules, that Trading Participant is suspended from participation in the spot market unless and until the Market Operator declares the suspension notice to be revoked in accordance with clause 3.15.7.	If a Trading Participant who is either a Direct WESM member or an Indirect WESM member receives a suspension notice from the Market Operator in accordance with any provision of the WESM Rules, that Trading Participant is suspended from participation in the spot market unless and until the Market Operator declares the suspension notice to be revoked in accordance with clause 3.15.7 3.15.8 .	Correction of clerical error. Issuance and revocation of suspension notice is provided under 3.15.8.
Scope of Chapter 3	3.1	This chapter 3 sets out the rules which govern operation of the spot market, and related matters, including but not limited to: (a) The definition of the market network model,	This chapter 3 sets out the rules which govern the operation of the spot market, and related matters, including but not limited to: (a) The definition of the market network model,	<ul style="list-style-type: none"> • Customer added to clarify that pricing zones apply to customers

Title	Section	Provision	Proposed Amendment	Rationale
		pricing zones, reserve categories and reserve regions, trading interval and timetable; xxx (d) The procedures for provision of ancillary services and for determining payment for those services; (e) The procedures for preparing week ahead projections and day ahead projections; xxx (i) The procedures for determining settlements amounts and for paying and receiving settlements;	customer pricing zones, reserve categories and reserve regions areas , dispatch interval , trading settlement interval and timetable; xxx (d) The procedures for provision of ancillary services and for determining payment for those services reserves ; (e) The procedures for preparing week ahead projections and day ahead projections, and hour ahead projections ; xxx (i) The procedures for determining, paying and receiving settlements amounts and for paying and receiving settlements ;	<ul style="list-style-type: none"> • Revision of regions to areas has the same rationale for the proposed changes in clause 2.3.1.3 • Global change to distinguish settlement intervals and dispatch intervals in the implementation of a shorter dispatch interval. Settlement interval refers to the 1-hour period for settlements while dispatch interval refers to the 5-minute periods for the actual trading and dispatch of generation and interruptible or dispatchable loads. • Hour ahead projections extend the RTD process into the future for a 1 hour period, with the same resolution as the RTD process (5-minutes or 10-minutes). The hour ahead projection (HAP) process would facilitate generators in making short-term decisions and provides a short-term assessment of market outcomes. See proposed clause 3.7.5. • Correction in (i) since settlement amounts are what is being determined, paid and received. Please see definition

Title	Section	Provision	Proposed Amendment	Rationale
				of settlements and settlement amounts .
Market Network Model	3.2.1.1	The Market Operator shall maintain and publish a market network model, which will be used for the purpose of central scheduling and dispatch, pricing and settlement.	The Market Operator shall maintain and publish a market network model, which will be used for the purpose of central scheduling and dispatch, pricing and settlement. <u>The Market Operator shall also publish any adaptations or adjustments to the market network model.</u>	In line with IES' recommendation to have better information available to all market participants.
Market Trading Nodes	3.2.2.1	A market trading node is a designated point in the market network model where energy is bought or sold based on the schedules and prices determined by the Market Dispatch Optimization Model. A market trading node where energy is primarily sold into the WESM is referred to as the generator node while a market trading node where energy is primarily bought from the WESM is referred to as a customer node.	A market trading node is a designated point in the market network model where energy is bought or sold based on the schedules and prices determined by the Market Dispatch Optimization Model. A market trading node where energy is primarily sold into the WESM is referred to as the generator <u>market trading</u> node while a market trading node where energy is primarily bought from the WESM is referred to as a customer <u>market trading</u> node.	Global change of generator node to generator market trading node and customer node to customer market trading node , for uniformity and clarity. (See also corresponding changes in the glossary definition)
Market Trading Nodes	3.2.2.3 (A)	3.2.2.3(A) xxx 3.2.2.4xxx	3.2.2.3(A) 3.2.2.4 xxx 3.2.2.4 3.2.2.5 xxx	Consistent with the DOE requirement that there should be no letters in the clause numbers (e.g. 3.2.2.3 (A)).
Customer Pricing Zones	3.2.3.1	Customer nodes may be grouped into customer pricing zones in accordance with the procedures to be developed by the Market Operator and subject to the approval of the PEM Board. The Market Operator shall maintain and publish the customer pricing zones to be used for the settlement of energy for customers.	Customer <u>market trading</u> nodes may be grouped into customer pricing zones in accordance with the procedures to be developed by the Market Operator and subject to the approval of the PEM Board. The Market Operator shall maintain and publish the customer pricing zones to be used for the settlement of energy for customers.	<ul style="list-style-type: none"> • Same as clause 3.2.2.1

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Ancillary Services (Introduction)	3.3.1.1	Ancillary services are services that are essential to the management of power system security, that facilitate orderly trading in electricity and ensure that electricity supplies are of an acceptable quality.	Ancillary services are services that are essential to the management of power system security, that facilitate orderly trading in electricity and ensure that electricity supplies are of an acceptable quality, as may be defined in the Philippine Grid Code.	Added phrase is to ensure consistency of A/S provisions under the Philippine Grid Code (PGC).
Ancillary Services (Introduction)	3.3.1.2 3.3.1.3	3.3.1.2 Without limitation, ancillary services may include (a) The provision of sufficient regulating reserve to meet fluctuations in load occurring within a trading interval; (b) The provision of sufficient contingency reserve to maintain power system frequency; (c) The provision of dispatchable reserve available to respond to a re-dispatch performed during a trading interval, on either a regular or an ad hoc basis; (d) The provision of reactive support to guard against power system failure; and (e) The provision of black start capability to allow restoration of power system operation after a complete failure of the power system or part of the power system. 3.3.1.3 xxx	3.3.1.2 Without limitation, ancillary services may include (a) The provision of sufficient regulating reserve to meet fluctuations in load occurring within a trading interval; (b) The provision of sufficient contingency reserve to maintain power system frequency; (c) The provision of dispatchable reserve available to respond to a re-dispatch performed during a trading interval, on either a regular or an ad hoc basis; (d) The provision of reactive support to guard against power system failure; and (e) The provision of black start capability to allow restoration of power system operation after a complete failure of the power system or part of the power system. 3.3.1.3 3.3.1.2 xxx	<ul style="list-style-type: none"> The Grid Code defines the broad categories while the WESM Rules state the principles of how to define and develop the detailed reserve categories to be traded in the WESM and the parameters to be used to define reserve providers' capabilities to deliver reserves etc. The proposed amendments ensure consistency between the PGC and WESM Rules, especially on the reserve categories that are not being traded in the WESM. Renumbering
Ancillary Services Contracting by the System operator	3.3.2.1	The System Operator shall use reasonable endeavors to ensure that sufficient facilities are available and operable to provide for: xxx (c) The availability, at all times, of the number of independent power sources able to provide black start-up facilities, determined in accordance with the procedures developed by the Market Operator to ascertain the	The System Operator shall use reasonable endeavors to ensure that sufficient facilities are available and operable to provide for: xxx (c) The availability, at all times, of the number of independent power sources able to provide black start-up facilities, determined in accordance with the procedures developed by the System Market Operator to ascertain	Correction on the current provision since it is the System Operator, not the Market Operator, which develop the procedures in the procurement of ancillary services.

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		quantities of ancillary services which the System Operator shall purchase.	the quantities of ancillary services which the System Operator shall purchase.	
Ancillary Services Agreements	3.3.3.1	The System operator shall arrange for the provision of adequate reserves for each region in accordance with clause 3.3.3.2.	The System operator shall arrange for the provision of adequate reserves for each region reserve area in accordance with clause 3.3.3.2.	Same as clause 2.3.1.3
Ancillary Services Agreements	3.3.3.2	The System operator shall arrange for the provision of adequate ancillary services for each region either: (a) By competitive tendering process, administered by the Market Operator, whereby a number of Ancillary Services Providers can provide a particular category of ancillary services; or (b) By negotiating contracts directly with an Ancillary Services Provider who is a Direct WESM member, where only one Ancillary Services Provider can provide the required ancillary services; or (c) Where applicable, by competitive spot market trading in accordance with clause 3.3.4.	The System operator shall arrange for the provision of adequate ancillary services for each region reserve area through any or a combination of the following either: (a) By competitive tendering process, administered by the Market Operator, whereby a number of Ancillary Services Providers can provide a particular category of ancillary services; or (b) By negotiating contracts directly with an Ancillary Services Providers who is a Direct WESM member, where only one Ancillary Services Provider can provide the required ancillary services; or (b) (c) Where applicable, b By competitive spot market trading in accordance with clause 3.3.4.	<ul style="list-style-type: none"> • Same as clause 2.3.1.3 • The current WESM Rules provide the possible modes of procurement of ancillary services by the System Operator. The proposed amendments considers the discretion of the System Operator in the manner by which it will procure Ancillary Services, which is anyway regulated by the ERC. On the other hand, it retains the provision for competitive spot trading of reserves in the WESM. • Renumbering
Ancillary Services Agreements	3.3.3.3 3.3.3.4	3.3.3.3 The System operator shall negotiate any ancillary services agreements with Ancillary Services Providers who are Direct WESM members on commercial terms acceptable to the parties and at arms length, subject to clause 3.3.3.2. 3.3.3.4 xxx	3.3.3.3 The System operator shall negotiate any ancillary services agreements with Ancillary Services Providers who are Direct WESM members on commercial terms acceptable to the parties and at arms length, subject to clause 3.3.3.2. 3.3.3.4 xxx 3.3.3.43.3.3xxx	<ul style="list-style-type: none"> • Same as clause 3.3.3.2 (2nd bullet) • Renumbering

Title	Section	Provision	Proposed Amendment	Rationale
Ancillary Services Agreements	3.3.3.5 3.3.3.6	3.3.3.5 Payments for ancillary services that are provided are to be made by the Market Operator via the settlements system in accordance with clause 3.13.14. 3.3.3.6 xxx	3.3.3.5 3.3.3.4 Payments for ancillary services that are provided <u>under clause 3.3.3.2 (b)</u> are to be made by the Market Operator via the settlements system in accordance with clause 3.13.14 3.13.13 . 3.3.3.6 3.3.3.5 xxx	<ul style="list-style-type: none"> • For clarity, to distinguish that there are ancillary services, i.e. reserves, that are traded in the WESM and are settled under the settlements system of the Market Operator. • Renumbering
Ancillary Services Agreements	3.3.3.7	3.3.3.7 Any dispute between the System operator and the Ancillary Services Provider in relation to the determination of a payment for spot market ancillary services shall be determined by the Dispute Resolution Administrator in accordance with clause 7.3, unless otherwise provided in the Ancillary Services Procurement Agreement (ASPA).	3.3.3.7 Any dispute between the System operator and the Ancillary Services Provider in relation to the determination of a payment for spot market ancillary services shall be determined by the Dispute Resolution Administrator in accordance with clause 7.3, unless otherwise provided in the Ancillary Services Procurement Agreement (ASPA).	The dispute resolution process in the WESM is already provided in clause 7.3.
Reserve Market Arrangements	3.3.4.2	The reserve categories to be traded in the spot market shall include: (a) Regulating reserve, being the ability to respond to small fluctuations in system frequency including but not limited to fluctuations caused by load fluctuations; (b) Contingency reserve, being the ability to respond to a significant decrease in system frequency including but not limited to a decrease in system frequency in an interconnected AC network as a result of a credible contingency affecting one (or more) Generation Companies within that network, or transmission flows into that network; and (c) Such other reserve categories as may from time to time be proposed by the Market Operator, in consultation with the System operator, and with WESM members, and approved by the PEM Board.	The Market Operator, in consultation with the System Operator, shall determine an appropriate set of reserve categories to be traded in the spot market shall include: (a) Regulating reserve, being the ability to respond to small fluctuations in system frequency including but not limited to fluctuations caused by load fluctuations; (b) Contingency reserve, being the ability to respond to a significant decrease in system frequency including but not limited to a decrease in system frequency in an interconnected AC network as a result of a credible contingency 14 affecting one (or more) Generation Companies within that network, or transmission flows into that network; and (c) Such other reserve categories as may from time to time be proposed by the Market Operator, in consultation with the System	<ul style="list-style-type: none"> • To ensure consistency between the PGC and WESM Rules, especially on the reserve categories which are not being traded in the WESM. • To clarify that reserves should be categorized according to: <ul style="list-style-type: none"> ○ mutually distinct responses ○ different timeframes of responses and should be technology neutral.

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			operator, and with WESM members, and approved by the PEM Board. <u>in conformance to the relevant provisions of the Grid Code. Such reserve categories shall be defined so that they correspond to mutually distinct responses to increase or decrease system frequency with different response timeframes and chosen to be technology neutral to allow responses from any facility certified to be capable of providing the requisite response.</u>	
Reserve Market Arrangements		NEW	<u>3.3.4.3 The Market Operator, in consultation with the System Operator, shall determine an appropriate set of reserve areas that will be used for the purpose of setting reserve requirements, and determining reserve prices and reserve cost recovery charges.</u>	To identify the responsible parties in determining the reserve areas
Reserve Market Arrangements		NEW	<u>3.3.4.4 The Market Operator shall maintain and publish the set of reserve categories, as well as the defined reserve areas, that shall be traded in the spot market.</u>	To identify the responsible party in the publication of reserve categories and reserve areas in the WESM
Ancillary Services Cost Recovery	3.3.5	Ancillary Services Cost Recovery	Ancillary Services Reserve Market Cost Recovery	To clarify that this section provides the cost recovery of ancillary services being traded in the WESM, specifically in the reserve market
Ancillary Services Cost Recovery	3.3.5.1	The System operator shall maintain and publish reserve cost recovery zones within which reserve cost recovery charges may be recovered to meet each locationally specific requirement.	The System operator Market Operator shall maintain and publish reserve cost recovery zones areas within which reserve cost recovery charges may be recovered to meet each locationally specific requirement.	Consistent with clause 2.3.1.3, global change of reserve cost recovery zone to reserve cost recovery area.

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Ancillary Services Cost Recovery	3.3.5.2	The costs of ancillary services are to be recovered through the settlement amounts calculated by the Market Operator under clause 3.13.10: (a) In accordance with the cost recovery formula to be developed by the System operator for the categories of reserve which are defined in clause 3.3.4.2; and (b) From those WESM members or others on whose behalf the System operator is deemed to purchase each ancillary service, in proportion to the benefits which are considered to be derived by those WESM members, in respect of ancillary services not included in clause 3.3.5.2 (a).	The costs of ancillary services reserves are to be recovered through the settlement amounts calculated by the Market Operator under clause 3.13.10 3.13.9 : (a) In accordance with the cost recovery formula to be developed by the System Market Operator for the each categories of reserve category , which are defined in clause 3.3.4.2; and (b) From those WESM members or others on whose behalf the System operator is deemed to purchase each ancillary service, in proportion to the benefits which are considered to be derived by those WESM members, in respect of ancillary services not included in clause 3.3.5.2 (a).	<ul style="list-style-type: none"> • Global change from ancillary services to reserves for A/S that are traded in the WESM, as appropriate. • Change in reference clause 3.13.10 to 3.13.9 is due to renumbering. • Change from System Operator to Market Operator is consistent with the fact that it is the Market Operator that seeks for approval for the cost recovery methodology • Cost recovery for A/S under contract with the System Operator is governed by the ASPP.
Ancillary Services Cost Recovery	3.3.5.3	The costs of providing each locationally specific reserve requirement shall be allocated by the Market Operator to those Trading Participants in the relevant reserve cost recovery zone in the form of reserve cost recovery charges to be determined in accordance with the principles set out in clause 3.3.5.4.	The costs of providing each locationally specific reserve requirement shall be allocated by the Market Operator to those Trading Participants in the relevant reserve cost recovery zone area in the form of reserve cost recovery charges to be determined in accordance with the principles set out in clause 3.3.5.4.	Same as clause 3.3.5.1.
Ancillary Services Cost Recovery	3.3.5.4	When allocating reserve cost recovery charges to Trading Participants in a particular reserve cost recovery zone as published in clause 3.3.5.1 the Market Operator may recover: (a) The cost of regulating reserve, in each reserve cost recovery zone, from: (1) Customers with load facilities connected in that reserve cost recovery zone, under a	When allocating reserve cost recovery charges to Trading Participants in a particular reserve cost recovery zone area as published in clause 3.3.5.1 the Market Operator may recover the cost of reserves from Trading Participants and Network Service Providers . (a) The cost of regulating reserve, in each reserve cost recovery zone, from:	<ul style="list-style-type: none"> • Same as clause 3.3.5.1. • The proposed change is to make the cost recovery non-specific for flexibility, to ensure consistency with the Grid Code in the event that the latter is amended in relation to reserve categories. Moreover, details

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		<p>formula which shall account for both the relative size of the customer loads, and the degree to which they contribute to deviations from their schedule within the trading interval; and</p> <p>(2) Scheduled Generation Companies with generating systems connected in that reserve cost recovery zone under a formula which shall account for both the relative size of the generating systems, and the degree to which they deviate from dispatch instructions,</p> <p>(b) The cost of contingency reserve, in each reserve cost recovery zone, from:</p> <p>(1) Generation Companies with generating systems connected in that reserve cost recovery zone; and</p> <p>(2) Network Service Providers serving that reserve cost recovery zone, under a formula which accounts for the relative size of the relevant generating system and distribution network, their reliability, and the impact which failure may have on conditions within that reserve cost recovery zone.</p>	<p>(1) Customers with load facilities connected in that reserve cost recovery zone, under a formula which shall account for both the relative size of the customer loads, and the degree to which they contribute to deviations from their schedule within the trading interval; and</p> <p>(2) Scheduled Generation Companies with generating systems connected in that reserve cost recovery zone under a formula which shall account for both the relative size of the generating systems, and the degree to which they deviate from dispatch instructions,</p> <p>(b) The cost of contingency reserve, in each reserve cost recovery zone, from:</p> <p>(1) Generation Companies with generating systems connected in that reserve cost recovery zone; and</p> <p>(2) Network Service Providers serving that reserve cost recovery zone, under a formula which accounts for the relative size of the relevant generating system and distribution network, their reliability, and the impact which failure may have on conditions within that reserve cost recovery zone.</p>	<p>of the cost recovery will be detailed in the PCRM, which shall be merged in the future with the PDM.</p>
Approval, Periodic Review and Evaluation of Ancillary Service Arrangements	3.3.7	3.3.7 Approval, Periodic Review and Evaluation of Ancillary Service Arrangements	3.3.7 Approval, Periodic Review and Evaluation of Ancillary Service Reserve Market Arrangements	To clarify that this section only provides the review of the market arrangements of reserves being traded in the WESM.
Approval, Periodic	3.3.7.1	3.3.7.1 The System operator of TRANSCO shall charge user fees for ancillary services to	3.3.7.1 The System operator of TRANSCO shall charge user fees for ancillary services to	The cost recovery of the System Operator for ancillary services is

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Review and Evaluation of Ancillary Service Arrangements		all electric power industry participants or self-generating entities connected to the grid. Such fees shall be fixed by the ERC after due notice and public hearing.	all electric power industry participants or self-generating entities connected to the grid. Such fees shall be fixed by the ERC after due notice and public hearing.	governed by the Ancillary Services Procurement Plan (ASPP) that is being approved by the ERC.
Approval, Periodic Review and Evaluation of Ancillary Service Arrangements	3.3.7.2	3.3.7.2The System operator, in consultation with Market Operator and WESM Participants shall conduct a periodic review and evaluation of the following: (a) Ancillary services categories, ancillary services arrangements and ancillary services cost recovery formula; (b) Reserve categories, reserve regions, and locationally specific reserve requirements; and (c) xxx	3.3.7.2 3.3.7.1 The System System Market Operator, in consultation with Market System Market Operator and WESM Participants shall conduct a periodic review and evaluation of the following: (a) Ancillary services categories, ancillary services arrangements and ancillary services cost recovery formula; (b) (a) Reserve categories, reserve regions areas, reserve market cost recovery formula, and locationally specific reserve requirements; and (c)(b) xxx	<ul style="list-style-type: none"> • Same as clause 2.3.1.3 • The review and evaluation of ancillary services that are not being traded in the reserve market shall be conducted outside of the WESM • Renumbering
Approval, Periodic Review and Evaluation of Ancillary Service Arrangements	3.3.7.3	3.3.7.3Any proposed changes to the ancillary service categories, ancillary services arrangements, ancillary services cost recovery formula, reserve categories, reserve regions or locationally specific reserve requirements that will affect the fees of ancillary services shall be filed by the System operator of TRANSCO with the ERC for approval.	3.3.7.3Any proposed changes to the ancillary service categories, ancillary services arrangements, ancillary services cost recovery formula, reserve categories, reserve regions or locationally specific reserve requirements that will affect the fees of ancillary services shall be filed by the System operator of TRANSCO with the ERC for approval.	The review and evaluation of ancillary services that are not being traded in the reserve market shall be conducted outside of the WESM. On the other hand, the review and evaluation of reserves being traded in the WESM is already provided in clause 3.3.7.2.
Approval, Periodic Review and Evaluation of Ancillary Service Arrangements	3.3.7.4 3.3.7.5	3.3.7.4The System operator shall continuously adjust the reserve effectiveness factors for each reserve facility category, and the quantum of reserve to be scheduled to meet each locationally specific reserve requirement by the market dispatch optimization model, so as to accurately reflect the power system under existing or future conditions, within the	3.3.7.4The System operator shall continuously adjust the reserve effectiveness factors for each reserve facility category, and the quantum of reserve to be scheduled to meet each locationally specific reserve requirement by the market dispatch optimization model, so as to accurately reflect the power system under existing or future conditions, within the	<ul style="list-style-type: none"> • In line with IES' recommendation to remove REFs, subject to the implementation of the new MMS. • Renumbering

Title	Section	Provision	Proposed Amendment	Rationale
		relevant market time frames, as advised by the System operator under clause 3.5.3.1. 3.3.7.5 Any proposed changes in the procedures reviewed under this clause 3.3.7 shall be approved by the PEM Board in accordance with the rule change process set out in chapter 8.	relevant market time frames, as advised by the System operator under clause 3.5.3.1. 3.3.7.5 3.3.7.2 Any proposed changes in the procedures reviewed under this clause 3.3.7 shall be approved by the PEM Board in accordance with the rule change process set out in chapter 8.	<ul style="list-style-type: none"> Deletion of the approval of the PEM Board is to ensure consistency with the rules change process in chapter 8.
Market Trading Interval and Timetable	3.4	Market Trading Interval and Timetable	Market Trading Interval, Dispatch Interval, Settlement Interval and Timetable	<ul style="list-style-type: none"> Global change to distinguish settlement intervals and dispatch intervals in the implementation of a shorter dispatch interval. Settlement interval refers to the 1-hour period for settlements while dispatch interval refers to the 5-minute periods for the actual trading and dispatch of generation and interruptible or dispatchable loads.
Dispatch Interval		NEW	<u>3.4.1 Dispatch Interval</u> <u>3.4.1.1 A dispatch interval is defined to be a five (5) minute period.</u> <u>3.4.1.2 The market dispatch optimization model defined in clause 3.6 will be run by the Market Operator for each dispatch interval. If the market dispatch optimization model is not successfully run for any dispatch interval, then the results of the hour ahead projection shall be used for that dispatch interval.</u>	To define "dispatch interval" and its use

Title	Section	Provision	Proposed Amendment	Rationale
			<u>3.4.1.3 Nodal energy dispatch prices for energy and dispatch interval prices for each reserve category and each reserve area will be determined for each dispatch interval.</u>	
Trading Intervals	3.4.1.1	<p>3.4.1.1 For the purpose of trading in energy and ancillary services, trading intervals one (1) hour, commencing on the hour.</p> <p>3.4.1.2 Only energy shall be traded during the interim WESM. Trading in ancillary services shall be implemented upon commencement of the spot market for ancillary services established under clause 3.3.4.</p>	<p>3.4.1.1<u>3.4.2.1</u>For the purpose of trading in energy and ancillary services, trading intervals <u>A settlement interval is defined to be a period of</u> one (1) hour, commencing on the hour.</p> <p>3.4.1.2 Only energy shall be traded during the interim WESM. Trading in ancillary services shall be implemented upon commencement of the spot market for ancillary services established under clause 3.3.4.</p> <p><u>3.4.2.2 Energy settlement prices and energy settlement quantities shall be determined for every settlement interval, in accordance with clause 3.10.6 and 3.13, respectively.</u></p> <p><u>3.4.2.3 Reserve settlement prices and reserve settlement quantities for each reserve area and reserve category shall be determined for every settlement interval, in accordance with clause 3.10.7 and 3.13.5, respectively.</u></p>	<ul style="list-style-type: none"> • To define "settlement interval" and its use. • Deleted clause 3.4.1.2 since this is already implied in clause 3.5.7.
Timetable	3.4.2	3.4.2 Timetable	3.4.2 <u>3.4.3</u> Timetable	<ul style="list-style-type: none"> • Clarify that week ahead and day ahead projections will be

Title	Section	Provision	Proposed Amendment	Rationale
		<p>3.4.2.1 xxx</p> <p>3.4.2.2 The timetable shall include the schedule and procedure for the following: (a) Determining and publishing week ahead projections including precise specification of the market horizon to be used for such projections; (b) Determining and publishing day ahead projections including precise specification of the market horizon to be used for such projections; (c) Submitting offers, bids and data; and (d) If necessary, for any other action to be taken by the Market Operator, the System operator, or any WESM member during the operation of the spot market.</p> <p>3.4.2.3 xxx</p> <p>3.4.2.4 xxx</p>	<p>3.4.2.13.4.3.1 xxx</p> <p>3.4.2.23.4.3.2 The timetable shall include the schedule and procedure for the following: (a) Determining and publishing week ahead projections for each hour including precise specification of the market horizon to be used for such projections; (b) Determining and publishing day ahead projections for each hour including precise specification of the market horizon to be used for such projections; (c) Submitting offers, bids and data; and (d) If necessary, for any other action to be taken by the Market Operator, the System operator, or any WESM member during the operation of the spot market; <u>(e) Determining and publishing hour ahead projections for each dispatch interval including precise specification of the market horizon to be used for such projections; and</u> <u>(f) Determining and publishing load forecasts, real time dispatch schedules, and market prices.</u></p> <p>3.4.2.3 3.4.3.3 xxx</p> <p>3.4.2.4 3.4.3.4 xxx</p>	<p>for each hour, while hour ahead projections will be for each dispatch interval, as to be defined in the WESM timetable.</p> <ul style="list-style-type: none"> • Also clarify that the timetable should provide the timeliness requirements for the publication of load forecasts, dispatch schedules and market prices. • Renumbering
Network Service Provider Data	3.5.2.1	Each Network Service Provider shall submit to the System operator standing network data relating to all network elements which are	Each Network Service Provider shall submit to the System operator standing network data relating to all network elements which are	Revision of reference clause due to the proposed amendments and

Title	Section	Provision	Proposed Amendment	Rationale
		under that Network Service Provider's control and included in the market network model, in accordance with clause 3.5.2.4 and the Grid Code and Distribution Code.	under that Network Service Provider's control and included in the market network model, in accordance with clause 3.5.2.4 3.5.2.6 and the Grid Code and Distribution Code.	renumbering in the subsequent clauses.
Network Service Provider Data		NEW	<p><u>3.5.2.2 Each Network Service Provider shall submit to the System Operator any planned outages of network elements which are under that Network Service Provider's control and that are included in the market network model.</u></p> <p><u>3.5.2.3 Each Network Service Provider shall submit to the System Operator, in real-time, information on the present state of its network including status of switches or circuit breakers and all available measurements for all network elements which are under that Network Service Provider's control and that are included in the market network model.</u></p>	To provide the requirement that each Network Service Provider shall inform the System Operator of outages and the status of its network that are included in the MNM
Network Service Provider Data	3.5.2.2 3.5.2.3 3.5.2.4 3.5.2.5	<p>3.5.2.2 xxx</p> <p>3.5.2.3 Each Network Service Provider shall submit period-specific network data variations to the System operator as soon as any material change in previously submitted network data becomes apparent with respect to the expected state of any of its networks in any trading interval of any trading day in the current week-ahead market horizon.</p> <p>3.5.2.4 The standing network data and any variations to that data submitted in accordance</p>	<p>3.5.2.23.5.2.4 xxx</p> <p>3.5.2.33.5.2.5 Each Network Service Provider shall submit period-specific network data variations to the System operator as soon as any material change in previously submitted network data becomes apparent with respect to the expected state of any of its networks in any trading dispatch interval of any trading day in the current week-ahead market horizon.</p> <p>3.5.2.43.5.2.6 The standing network data and any variations to that data submitted in</p>	<ul style="list-style-type: none"> • To provide the requirement that each Network Service Provider shall inform the System Operator of all material changes to its network, as soon as possible • Clarify that required data from NSPs in clauses 3.5.2.6 and 3.5.2.7, as revised, pertain to any dispatch interval (not trading interval) • Renumbering

Title	Section	Provision	Proposed Amendment	Rationale
		<p>with clause 3.5.2.3 shall be provided by Network Service Providers in a form which allows the System operator to readily derive and verify the information specified in Appendix A2, as it may pertain to any trading interval of any trading day in the week-ahead market horizon.</p> <p>3.5.2.5 Each Network Service Provider shall immediately advise the System Operator of any circumstances which threaten a significant probability of material adverse change in the state of its network in any trading interval of any trading day in the current week-ahead market horizon</p>	<p>accordance with clause 3.5.2.3 shall be provided by Network Service Providers in a form which allows the System operator to readily derive and verify the information specified in Appendix A2, as it may pertain to any trading dispatch interval of any trading day in the week-ahead market horizon.</p> <p>3.5.2.5 3.5.2.7 Each Network Service Provider shall immediately advise the System Operator of any circumstances which threaten a significant probability of material adverse change in the state of its network in any trading dispatch interval of any trading day in the current week-ahead market horizon</p>	
System Operator Data	3.5.3.1	The System operator shall submit to the Market Operator standing network data relating to all network elements which are under the Network Service Provider's control and included in the market network model, in accordance with the timetable.	The System operator shall submit to the Market Operator standing network data relating to all network elements which are under the a Network Service Provider's control and included in the market network model, in accordance with the timetable.	To clarify that there are many Network Service Providers, whose network elements may be included in the market network model.
System Operator Data	3.5.3.2	<p>Where necessary, the System operator shall, in accordance with the timetable, promptly advise the Market Operator to:</p> <p>(a) Vary the market network model representation employed for any trading interval in the current week-ahead market horizon to take account of information received from Network Service Providers; and</p> <p>(b) Apply, or vary, any system security constraints, over-riding constraints or reserve requirements constraints to be applied in any</p>	<p>Where necessary, the System operator shall, in accordance with the timetable, promptly advise the Market Operator to:</p> <p>(a) Vary the market network model representation employed for any trading dispatch interval in the current week-ahead market horizon to take account of information received from Network Service Providers <u>including the elements that have armed load shedding schemes and consequently do not need to be operated based on an N-1</u></p>	To clarify the System Operator's responsibility in providing information for all market projections and real time dispatch, including the elements that have armed load shedding schemes and consequently do not need to be operated based on an N-1 security constrained dispatch basis, to the MO.

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		trading interval in the current week-ahead market horizon to take account of current, or projected, system conditions.	<u>security constrained dispatch basis</u> ; and (b) Apply, or vary, any system security constraints, over-riding constraints or reserve requirements constraints to be applied in any trading <u>dispatch</u> interval in the current week-ahead market horizon to take account of current, or projected, system conditions.	
System Operator Data	3.5.3.5	In accordance with the timetable, any revision under clause 3.5.3.2 to the system representation or constraints to be employed with respect to any market trading interval shall take effect the next time a market dispatch optimization model run is initiated.	In accordance with the timetable, any revision under clause 3.5.3.2 to the system representation or constraints to be employed with respect to any market trading <u>dispatch</u> interval shall take effect the next time a market dispatch optimization model run is initiated.	To clarify the timeline wherein updates on the system representation or constraints will be taking effect.
System Operator Data	3.5.3.6	The System operator shall advise the Market Operator of any circumstances which threaten a significant probability of material adverse change in the state of the network, or system, in any trading interval of any trading day in the current week-ahead market horizon.	The System operator shall advise the Market Operator of any circumstances which threaten a significant probability of material adverse change in the state of the network, or system, in any trading <u>dispatch</u> interval of any trading day in the current week-ahead market horizon.	For consistency with proposed amendments in clause 3.1.
System Operator Data		NEW	<u>3.5.3.7 The Market Operator shall publish the market network model representation, all network status data, any system security constraints, over-riding constraints or reserve requirements constraints used in any market projections, dispatches, prices and settlements.</u>	For transparency.
System Operator Data		NEW	<u>3.5.3.8 The System Operator shall be responsible for taking measures to ensure that the Market Operator is provided with data in a timely and reliable manner, and which has undergone a process of quality checking and (if required and feasible)</u>	This provides the System Operator's responsibility to provide data to the Market Operator that has undergone quality checking.

Title	Section	Provision	Proposed Amendment	Rationale
			<u>substitution from alternative primary sources.</u>	
Load Forecasting	3.5.4		<u>All load forecasts shall be specified in units of megawatt (MW) and will apply to the end of the relevant dispatch interval unless otherwise stated.</u>	For clarity.
Load Forecasting	3.5.4.1	Each Customer may submit a forecast in respect of each trading interval for each of its registered load facilities for each trading day of week in accordance with the timetable. xxx	Each Customer may submit a forecast in respect of each trading interval <u>dispatch</u> interval for each of its registered load facilities for each trading day of <u>the</u> week in accordance with the timetable. xxx	<ul style="list-style-type: none"> • Consistent with clause 3.1. • Clerical correction
Load Forecasting	3.5.4.3	The unrestrained net load forecast for any trading interval shall be prepared so as to represent the net load as it would be, or would have been, in the absence of load shedding.	The unrestrained net load forecast for any trading interval shall be prepared so as to represent the net load as it would be, or would have been, in the absence of load shedding.	To cover all unrestrained net load forecasts.
Load Forecasting	3.5.4.4	If load shedding is expected to occur in any trading interval, a restrained net load forecast for that trading interval shall be prepared on the same basis, but accounting for load shedding to the extent that it is expected to occur.	If load shedding is expected to occur in any trading interval <u>dispatch</u> interval, a restrained net load forecast for that trading interval <u>dispatch</u> interval shall be prepared on the same basis, but accounting for load shedding to the extent that it is expected to occur.	Net load forecasts shall be prepared on a dispatch interval basis, not trading interval.
Load Forecasting	3.5.4.5	NEW	<u>The Market Operator shall annually review the performance of its nodal load forecasts used for week-ahead projections, day-ahead projections, hour-ahead projections, and determining dispatch schedules.</u>	The Market Operator performance for each workflow will be reviewed based on the results of the performance monitoring under the Market Operator Performance Standards under clause 1.3.2.
Load Forecasting	3.5.4.6	NEW	<u>The Market Operator shall periodically review the methodologies for performing nodal load forecasts used for week-ahead projections, day-ahead projections, hour-</u>	The Market Operator will ensure continuing improvement of its forecasting methodologies, which

Title	Section	Provision	Proposed Amendment	Rationale
			<u>ahead projections, and determining dispatch schedules.</u>	may be based on best practices from other jurisdictions.
Generation Offers and Data	3.5.5.1	Each Scheduled Generation Company including Generation Companies with bilateral contracts shall submit a standing generation offer for each of its scheduled generating units for each trading interval in each trading day of the week in accordance with the timetable.	Each Scheduled Generation Company including Generation Companies with bilateral contracts shall submit a standing generation offer for each of its scheduled generating units for each trading <u>dispatch</u> interval in each trading day of the week in accordance with the timetable.	Generation offers shall be submitted for each dispatch interval.
Generation Offers and Data	3.5.5.3	Each Generating Company shall, in consultation with the System operator, xxx	Each Generating <u>Generation</u> Company shall, in consultation with the System operator, xxx	Clerical correction for consistency with the defined term in the WESM Rules.
Generation Offers and Data	3.5.5.4	Each Non-Scheduled Generation Company shall submit a standing schedule of loading levels for each of its nonscheduled generating units for each trading interval in each trading day of the week in accordance with the timetable.	Each Non-Scheduled Generation Company shall submit a standing schedule of loading levels for each of its nonscheduled generating units for each trading <u>dispatch</u> interval in each trading day of the week in accordance with the timetable.	Same as clause 3.5.5.1
Generation Offers and Data	3.5.5.5	Each NRE Generation Company with intermittent energy resource shall submit its projected output for each of its generating units for each trading interval in each trading day of the week in accordance with the timetable.	Each NRE Generation Company with intermittent energy resource shall submit its projected output for each of its generating units for each trading <u>dispatch</u> interval in each trading day of the week in accordance with the timetable.	Same as clause 3.5.5.1
Customer Demand Bids	3.5.6.1	Each Customer may submit a standing demand bid in respect of each trading interval for each of its registered scheduled load facilities for each trading day of the week in accordance with the timetable.	Each Customer may submit a standing demand bid in respect of each trading <u>dispatch</u> interval for each of its registered scheduled load facilities for each trading day of the week in accordance with the timetable.	For consistency with the submission of Generation offers, customer bids shall be submitted for each dispatch interval.
Generation Company Reserve Offers	3.5.7.2	When applicable, subject to clause 3.3.4.2, each Scheduled Generator registered as an Ancillary Services Provider in respect of a reserve facility in a particular reserve region	When applicable, subject to clause 3.3.4.2, each Scheduled Generator registered as an Ancillary Services Provider in respect of a reserve facility in a particular reserve region	<ul style="list-style-type: none"> • For consistency with clause 3.5.5.1 • Same as clause 2.3.1.3

Title	Section	Provision	Proposed Amendment	Rationale
		shall submit a standing reserve offer for each of its relevant reserve facilities in respect of that reserve region for each trading interval for each day of the week in accordance with the timetable.	area shall submit a standing reserve offer for each of its relevant reserve facilities in respect of that reserve region area for each trading dispatch interval for each day of the week in accordance with the timetable.	
Customer Reserve Offers	3.5.8.2	When applicable, subject to clause 3.3.4.2, each Customer registered as an Ancillary Services Provider in respect of a reserve facility in a particular reserve region may submit a standing reserve offer for each of its interruptible load facilities in respect of that reserve region for each trading interval for each day of the week in accordance with the timetable.	When applicable, subject to clause 3.3.4.2, each Customer registered as an Ancillary Services Provider in respect of a reserve facility in a particular reserve region area may submit a standing reserve offer for each of its interruptible load facilities in respect of that reserve region area for each trading dispatch interval for each day of the week in accordance with the timetable.	<ul style="list-style-type: none"> • For consistency with clause 3.5.7.2 • Same as clause 2.3.1.3
Customer Reserve Offers	3.5.8.3	Each reserve offer submitted by a Customer under clause 3.5.8.2 shall: (a) Correspond to a load for that Customer which has been certified as interruptible in accordance with the Grid Code and Distribution Code; (b) Correspond to the response capability of the relevant reserve facility registered for the provision of interruptible load which has been certified as meeting the relevant reserve response standards for that reserve facility category in accordance with the Grid Code and Distribution Code; and (c) Include the information specified in Appendix A2.	Each reserve offer submitted by a Customer under clause 3.5.8.2 shall: (a) Correspond to a load for that Customer which has been certified as interruptible in accordance with the Grid Code and Distribution Code; (b) Correspond to the response capability of the relevant reserve facility registered for the provision of interruptible load which has been certified as meeting the relevant reserve response standards for that reserve facility category in accordance with the Grid Code and Distribution Code; and (c) Include the information specified in Appendix A 1.2 .	To provide correct reference.
Revision of Standing Offers/Bids	3.5.9.1	A standing generation offer, a standing reserve offer, a standing schedule of loading levels or a standing demand bid for any trading interval in any day of the week may be revised by the	A standing generation offer, a standing reserve offer, a standing schedule of loading levels or a standing demand bid for any trading dispatch interval in any day of the week may be revised	For consistency with clause 3.5.7.2 and clause 3.5.8.2

Title	Section	Provision	Proposed Amendment	Rationale
		relevant Generation Company or Customer in accordance with the timetable.	by the relevant Generation Company or Customer in accordance with the timetable.	
Initial setting of Market Offers/Bids	3.5.10	When the Market Operator updates a market projection under clause 3.7, the standing offers and standing bids shall be effective in the absence of revised market offers and market bids for the corresponding trading interval and day of the week.	When the Market Operator updates a market projection under clause 3.7, the standing offers and standing bids shall be effective in the absence of revised market offers and market bids for the corresponding trading dispatch interval and day of the week.	For consistency with clause 3.5.7.2
Revision of Market Offers/Bids	3.5.11.1	Each scheduled Trading Participant which has submitted standing offers or bids may revise any of its market offers or market bids for any trading interval in any trading day of the current week-ahead market horizon in accordance with the timetable, and subject to clause 3.5.11.3 and each revised market offer or market bid submitted shall provide the information set out in Appendix A2.	Each scheduled Trading Participant which has submitted standing offers or bids may revise any of its market offers or market bids for any trading dispatch interval in any trading day of the current week-ahead market horizon in accordance with the timetable, and subject to clause 3.5.11.3 and each revised market offer or market bid submitted shall provide the information set out in Appendix A2 A1 .	<ul style="list-style-type: none"> • For consistency with clause 3.5.5.1 • Correction on the reference (Appendix A1 provides the Information to be Supplied with Offers to Supply and to Buy Electricity while Appendix A2 provides the information to be supplied by Network Service Provider)
Revision of Market Offers/Bids	3.5.11.4	Market bids or market offers for any trading interval may be revised by Trading Participants prior to gate closure if they no longer represent a reasonable estimate of: (a) The expected availability of the relevant generating unit or scheduled load for that trading interval; or (b) The demand bids or offers likely to apply for the real time dispatch optimization of that trading interval.	Market bids or market offers for any trading dispatch interval may be revised by Trading Participants prior to gate closure if they no longer represent a reasonable estimate of: (a) The expected availability of the relevant generating unit or scheduled load for that trading dispatch interval; or (b) The demand bids or offers likely to apply for the real time dispatch optimization of that trading dispatch interval.	For consistency with clause 3.5.5.1 and clause 3.5.6.1.
Revision of Market Offers/Bids	3.5.11.5	In submitting Market bids or market offers for any trading interval, Trading Participants shall also take into account the following: (a) The time remaining until the occurrence of the relevant trading interval involved; and	In submitting Market bids or market offers for any trading dispatch interval, Trading Participants shall also take into account the following: (a) The time remaining until the occurrence of	For consistency with clause 3.5.5.1 and clause 3.5.6.1.

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		xxx	the relevant trading dispatch interval involved; and xxx	
Revision of Market Offers/Bids	3.5.11.6	Trading Participants shall immediately advise the System operator and Market Operator of any circumstances which threaten a significant probability of material adverse change in the state of their facilities in any trading interval of any trading day in the current week-ahead market horizon.	Trading Participants shall immediately advise the System operator and Market Operator of any circumstances which threaten a significant probability of material adverse change in the state of their facilities in any trading dispatch interval of any trading day in the current week-ahead market horizon.	For consistency with clause 3.5.5.1 and clause 3.5.6.1.
Revision of Market Offers/Bids	3.5.11.8	Each market offer or market bid for a particular trading interval is deemed to stand with effect from the time it is initiated under clause 3.5.10 or revised under clause 3.5.11 and will be used in preparing all market forecasts, dispatch targets or prices for that trading interval, unless and until a valid revision to the market offer is accepted by the Market Operator.	Each market offer or market bid for a particular trading dispatch interval is deemed to stand with effect from the time it is initiated under clause 3.5.10 or revised under clause 3.5.11 and will be used in preparing all market forecasts, dispatch targets schedules or prices for that trading the corresponding dispatch interval, unless and until a valid revision to the market offer is accepted by the Market Operator.	For consistency with clause 3.5.5.1 and clause 3.5.6.1.
Over-riding Constraints	3.5.13.2	3.5.13.2 In situations where offers are structured in such a way that provision of any level of reserve services prohibits the simultaneous provision of very low or high levels of generation, the System operator may also recommend to the Market Operator that constraints should be imposed or relaxed so as to allow generating systems to operate in a range which allows increase of either reserve allocation or energy generation, as appropriate, having regard to: (a) The commercial interests of Trading Participants; and (b) Market priorities and objectives, as	3.5.13.2 In situations where offers are structured in such a way that provision of any level of reserve services prohibits the simultaneous provision of very low or high levels of generation, the System operator may also recommend to the Market Operator that constraints should be imposed or relaxed so as to allow generating systems to operate in a range which allows increase of either reserve allocation or energy generation, as appropriate, having regard to: (a) The commercial interests of Trading Participants; and (b) Market priorities and objectives, as	The conditions for imposition and relaxation of constraints are provided in detail under clause 3.6.2.

Title	Section	Provision	Proposed Amendment	Rationale
		reflected by the relevant market prices for energy and reserves in the relevant reserve region.	reflected by the relevant market prices for energy and reserves in the relevant reserve region.	
Over-riding Constraints	3.5.13.3	Prior to the spot market commencement date, the System operator, in consultation with Trading Participants and the Market Operator, shall publish a general description of the nature of circumstances which will cause it to recommend imposition or relaxation of constraints under clauses 3.5.13.1 or 3.5.13.2 and the type of action which may be taken under those circumstances.	3.5.13.3 3.5.13.2 Prior to the spot market commencement date, the System Operator, in consultation with Trading Participants and the Market Operator, shall publish a general description of the nature of circumstances which will cause it to recommend imposition or relaxation of constraints under clauses 3.5.13.1 or 3.5.13.2 and the type of action which may be taken under those circumstances.	<ul style="list-style-type: none"> • Renumbering • Deleted references for consistency in the proposed deletion of clause 3.5.13.2
Over-riding Constraints	3.5.13.4	When acting under clause 3.5.13.1 or 3.5.13.2, the System operator shall: (a) Notify the relevant Trading Participant of the situation as soon as practicable; and (b) Record appropriate details of the incident.	3.5.13.4 3.5.13.3 When acting under clause 3.5.13.1 or 3.5.13.2 , the System operator shall: (a) Notify the relevant Trading Participant of the situation as soon as practicable; and (b) Record appropriate details of the incident.	Same as clause 3.5.13.3
Over-riding Constraints	3.5.13.5	At the request of the Market Operator, the System operator or any WESM member, the market surveillance committee may review any decision by the Market Operator to impose or relax constraints under clause 3.5.13.1 or 3.5.13.2.	3.5.13.5 3.5.13.4 At the request of the Market Operator, the System operator or any WESM member, the market surveillance committee may review any decision by the System Operator or Market Operator to impose or relax constraints, as the case may be under clause 3.5.13.1 or 3.5.13.2.	<ul style="list-style-type: none"> • Same as clause 3.5.13.3 • The System Operator is a WESM member
Over-riding Constraints	3.5.13.6	If a review conducted under clause 3.5.13.5 concludes that a Trading Participant or the Market Operator or the System operator has acted inappropriately, and has thereby imposed significant costs on other parties, the market surveillance committee may refer that matter to the Enforcement and Compliance Officer under clause 7.2 or require that Trading Participant or the Market Operator or the	3.5.13.6 3.5.13.5 If a review conducted under clause 3.5.13.5 3.5.13.4 concludes that a Trading Participant or the Market Operator or the System Operator has acted inappropriately, and has thereby imposed significant costs on other parties, the market surveillance committee may refer that matter to the Enforcement and Compliance Officer under	<ul style="list-style-type: none"> • Renumbering • Deleted references for consistency

Title	Section	Provision	Proposed Amendment	Rationale
		System operator (as the case may be) to pay compensation in accordance with clause 7.2.	clause 7.2 or require that Trading Participant or the Market Operator or the System operator (as the case may be) to pay compensation in accordance with clause 7.2.	
Model Definition	3.6.1.1	The market dispatch optimization model simultaneously determines dispatch targets for the end of a trading interval, reserve allocations for the trading interval, associated energy prices at all trading nodes in the power system and when applicable reserve prices for all reserve regions.	The market dispatch optimization model simultaneously determines dispatch targets for the end of a trading dispatch interval, reserve allocations for the trading dispatch interval, associated nodal energy dispatch prices at all trading nodes in the power system and when applicable reserve prices for all reserve regions areas .	<ul style="list-style-type: none"> • Consistent with the proposed rules changes in clause 3.4.2 providing real time dispatch every dispatch interval. • Same as clause 2.3.1.3 • Same as clause 3.10.2
Model Definition	3.6.1.2	The Market Operator shall maintain and publish the formulation of the market dispatch optimization model, and the performance standards, in accordance with the WESM objectives.	The Market Operator shall maintain and publish the detailed formulation of the market dispatch optimization model and the performance standards , in accordance with the WESM objectives.	<p>The details of the MDOM should also be published and available to the public, such that an independent person could develop and test the market dispatch optimization model.</p> <p>See clause 5.2.6.2. While the MDOM is already covered in the regular audit on market operations under said clause, it has been revised to clearly state that market audits shall include the audit of market dispatch optimization model and processes.</p>
Model Definition	3.6.1.4	In formulating the market dispatch optimization model, the Market Operator and System operator shall ensure that the dispatch for each trading interval is made subject to:	In formulating the market dispatch optimization model, the Market Operator and System operator shall ensure that the dispatch for each trading dispatch interval is made subject to:	<ul style="list-style-type: none"> • Consistent with the proposed rules changes in clause 3.4.2 providing real time dispatch every dispatch interval. • Clerical correction

Title	Section	Provision	Proposed Amendment	Rationale
		<p>(a) Constraints representing limits on generation offer, demand bid and when applicable reserve quantities as specified by Trading Participants in accordance with clause 3.5, except to the extent that as they may be relaxed in accordance with clause 3.5.13;</p> <p>(b) Constraints representing the technical characteristics of reserve facility categories, including when applicable reserve effectiveness factors initially set at one (1);</p> <p>(c) Energy balance equations for each node in the market network model ensuring that the net load forecast for the end of the trading interval at each market trading node as determined by the Market Operator is met;</p> <p>(d) Constraints representing limitations on the ramp rate from the plant status deemed to apply prior to the commencement of the trading interval;</p> <p>(e) Constraints defining power system reserve requirements as provided by the System operator under clause 3.5.3;</p> <p>(f) Network constraints, as implied by the market network model provided by the System operator under clause 3.5.3;</p> <p>xxx</p>	<p>(a) Constraints representing limits on generation offers<u>s</u>, demand bids<u>s</u> and when applicable reserve quantities as specified by Trading Participants in accordance with clause 3.5, except to the extent that as they may be relaxed in accordance with clause 3.5.13;</p> <p>(b) Constraints representing the technical characteristics of reserve facility categories, including when applicable reserve effectiveness factors initially set at one (1) <u>joint energy and reserves capacity limits and joint energy and reserves ramping limits;</u></p> <p>(c) Energy balance equations for each node in the market network model ensuring that the net load forecast for the end of the trading <u>dispatch</u> interval at each market trading node as determined by the Market Operator is met;</p> <p>(d) Constraints representing limitations on the ramp rates<u>s</u> from the plant status <u>statuses or standing data</u> deemed to apply prior to the commencement of the trading <u>dispatch</u> interval;</p> <p>(e) Constraints defining power system reserve requirements as provided by the System operator under clause 3.5.3 <u>including co-optimized dispatch and applicable ancillary services requirements;</u></p> <p>(f) Network constraints, as implied by the</p>	<ul style="list-style-type: none"> • The proposed deletion of the provision on reserve effectiveness factor (REF) is in line with WESM Design Study recommendation to remove REFs. Please see clause 10.4.10.2. • The constraints to be considered in formulating the MDOM will include joint capacity and ramping limits. • To specify additional considerations in formulating the MDOM. • Revised (e), for consistency with amendments in clause 3.3. • Added item (f) to accommodate possible modeling of co-generation facilities, battery energy storage, pump-storage, combined-cycle and other new technologies.

Title	Section	Provision	Proposed Amendment	Rationale
			<p>market network model <u>and any system security constraints</u> provided by the System operator under clause 3.5.3;</p> <p>xxx</p> <p><u>(l) Any additional constraints that pertain to the operational modes of generators, loads or similar facilities.</u></p> <p><u>Some of these constraints may be relaxed in order to produce feasible prices in accordance with clause 3.6.2.</u></p>	
Model Definition	3.6.1.5	<p>The market dispatch optimization model shall be designed so that, subject to the approximations and adjustments provided for by clause 3.6.4:</p> <p>xxx</p> <p>c) It will produce energy prices for each market trading node, and when applicable reserve price for each reserve region, so that the recommended dispatch targets for each individual Trading Participant would be optimal for that participant at those prices, given their offers and demand bids and after accounting for other constraints which may affect that Trading Participant, and</p> <p>(d) It will perform its functions in accordance with the performance standards approved by the PEM Board.</p>	<p>The market dispatch optimization model shall be designed so that, subject to the approximations and adjustments provided for by clause 3.6.4:</p> <p>xxx</p> <p>c) It will produce <u>nodal</u> energy <u>dispatch</u> prices for each market trading node, and when applicable reserve price <u>prices</u> for each <u>reserve category and</u> reserve region <u>area</u>, so that the recommended dispatch targets for each individual Trading Participant would be optimal for that participant at those prices, given their offers and demand bids and after accounting for other constraints which may affect that Trading Participant, and</p> <p>(d) It will perform its functions in accordance with the performance standards approved by the PEM Board <u>in accordance with clause 1.3.2.3 and 10.4.10.2.</u></p>	<ul style="list-style-type: none"> • For consistency with the defined terms in the WESM Rules • Clerical correction • Same as clause 2.3.1.3 • References to the Market Operator performance standards were added in relation to the proposed amendments in clause 3.6.1.4.

Title	Section	Provision	Proposed Amendment	Rationale
Constraint Violation Coefficients	3.6.2	Constraint Violation Coefficients	<p>Constraint Violation <u>Variables and Coefficients</u></p> <p><u>Constraints that may be relaxed in the market dispatch optimization model shall be set up with one or more non-negative violation variables and associated constraint violation coefficients to ensure that the market dispatch model will always find a solution which satisfies all constraints, if such a solution exists.</u></p> <p><u>The constraint violation coefficients shall be set for:</u> <u>(a) market dispatches, and</u> <u>(b) market pricing re-runs when the market dispatch has resulted in a non-zero violation variable.</u></p>	<ul style="list-style-type: none"> • To enhance scope of section • To clarify the CVC values to ensure that the MDOM will always find a solution, in consideration of the constraints.
Constraint Violation Coefficients	3.6.2.1	<p>The constraint violation coefficients shall:</p> <p>(a) Be set so as to ensure that the market dispatch model will always find a solution which satisfies all constraints, if such a solution exists;</p> <p>(b) Be set so as to ensure that binding constraints are prioritized, such that constraints resulting in the lowest reduction in the capability of the network, load or generating units will occur first; and</p> <p>(c) Be set so as to ensure that the prices produced by the market optimization algorithm</p>	<p>3.6.2.1 The constraint violation coefficients <u>shall be set for market dispatches shall so as to ensure that:</u></p> <p>(a) Be set so as to ensure that the <u>The</u> market dispatch model will always find a solution which satisfies all constraints, if such a solution exists; <u>and</u></p> <p>(b) Be set so as to ensure that binding <u>The violated</u> constraints are prioritized, such that constraints resulting in the lowest reduction in the capability of the <u>dispatch of</u> network <u>elements</u>, loads or <u>and</u> generating units will occur first <u>are physically feasible and reflect</u></p>	To differentiate and define constraint violation coefficients for market dispatches and market pricing re-runs.

Title	Section	Provision	Proposed Amendment	Rationale
		will be appropriate in all the circumstances, taking into consideration the processes defined in section 3.10 to adjust or override those prices for settlement purposes.	<p><u>the priorities or how the System Operator should manage system security and reliability</u>; and</p> <p><u>3.6.2.2 The constraint violation coefficients shall be set for market pricing re-runs so as to ensure that:</u></p> <p><u>(a) The dispatches of all network elements, loads and generating units produced by the market optimization algorithm are approximately the same as the original market dispatches; and</u></p> <p><u>(c) (b) Be set so as to ensure that the The</u> prices produced by the market optimization algorithm will be appropriate in all the circumstances, taking into consideration the processes defined in section 3.10 to adjust or override those prices for <u>market projection, dispatch and</u> settlement purposes <u>when there are instances of non-zero constraint violation variable values.</u></p>	
Constraint Violation Coefficients	3.6.2.2	3.6.2.2 The constraint violation coefficients may: (a) Vary according to the time of day, or on any other basis as determined by the Market Operator, (b) Increase progressively as the constraint becomes more severe; and (c) Increase or decrease as a function of the length of time for which the constraint has been violated.	<p>3.6.2.23.6.2.3 The constraint violation coefficients may: (a) Vary according to the time of day, or on any other basis as determined by the Market Operator, (b) Increase progressively as the constraint <u>violation</u> becomes more severe; and (c) Increase or decrease as a function of the length of time for which the constraint has been violated.</p>	<ul style="list-style-type: none"> • Renumbering • For clarity

Title	Section	Provision	Proposed Amendment	Rationale
		3.6.2.3. xxx	3.6.2.3 3.6.2.4 xxx	
Constraint Violation Coefficients	3.6.2.4	3.6.2.4 The Market Operator, in coordination with the System Operator, and in consultation with the WESM Members shall regularly review the appropriateness and applicability of constraint violation coefficients levels in accordance with clause 10.4.11.1; and revise as maybe necessary to ensure that it reflects the actual conditions of the network. Such revisions shall be approved by the PEM Board and shall be published in accordance with the timetable.	3.6.2.4 3.6.2.5 The Market Operator, in coordination with the System Operator, and in consultation with the WESM Members shall regularly review the appropriateness and applicability of <u>constraint violation variables and their associated</u> constraint violation coefficients levels in accordance with clause 10.4.11.1; and revise as maybe necessary to ensure that it reflects the actual conditions of the network. Such revisions shall be approved by the PEM Board and shall be published in accordance with the timetable.	<ul style="list-style-type: none"> • Renumbering • For clarity
Constraint Violation Coefficients		NEW	<u>3.6.2.6 For constraints which use two or more violation variables, all violation variables must have upper bounds other than the violation variable corresponding to the highest constraint violation coefficient.</u>	To ensure that the MDOM will always find a solution, in consideration of the constraints.
Interpretation of Model Outputs	3.6.3	The output of the market dispatch optimization model is to be interpreted as providing energy and when applicable reserve dispatch targets for the end of each trading interval to which the market dispatch optimization model is applied.	The output of the market dispatch optimization model is to be interpreted as providing energy and when applicable reserve dispatch targets for the end of each trading <u>dispatch</u> interval to which the market dispatch optimization model is applied.	Consistent with the proposed rules changes in clause 3.4.2.
Market Settlement	3.6.6	The market shall be cleared, prices determined, and dispatch determined according to the model results for each trading interval, in the form that is written. The model results shall not be challenged expost. xxx	The market shall be cleared, prices determined, and dispatch determined according to the model results for each trading <u>dispatch</u> interval, in the form that is written. The model results shall not be challenged ex-post. xxx	Consistent with the proposed rules changes in clause 3.4.2.

Title	Section	Provision	Proposed Amendment	Rationale
		NEW	<u>3.6.7 Automatic Pricing Re-runs</u>	To minimize PENs due to constraint violations in RTD and to eliminate manual market re-runs. The aim of this proposal is to nearly always produce ex-ante prices before the start of the dispatch interval without delay.
		NEW	<u>3.6.7.1 Should the market dispatch optimization model result in one or more non-zero constraint violation variable values then the dispatch schedules shall remain the same but the prices for energy and reserves shall be determined from an automatic re-run of the market dispatch optimization model with relaxed constraints.</u>	Same as proposed clause 3.6.7.
		NEW	<u>3.6.7.2 The purpose of the automatic market pricing re-runs is to ensure that the energy and reserve prices reflect:</u> <u>(a) the marginal costs of supplying energy at each node;</u> <u>(b) the marginal costs of supplying reserves;</u> <u>(c) shortage pricing when there is a shortage of supply at a node or regional level; and</u> <u>(d) excess pricing when there is an excess of supply at a node or regional level.</u> <u>Such shortage pricing and excess pricing shall be approved by the DOE and ERC.</u>	Same as proposed clause 3.6.7.

Title	Section	Provision	Proposed Amendment	Rationale
		NEW	<p><u>3.6.7.3 The automatic re-run of the dispatch optimization shall use the following changes to any of the constraints that had non-zero constraint violation variable values:</u></p> <p><u>(a) For each nodal energy balance constraint that was violated, the constraint violation coefficient for the new violation variable shall be set; and</u></p> <p><u>(b) For all other constraints that were violated, each constraint's requirement shall be reduced by the minimum amount to a level that prevents a violation of that requirement.</u></p>	Same as proposed clause 3.6.7.
		NEW	<u>3.6.7.4 The automatic re-run shall solve the market dispatch optimization model with the reduced nodal energy and other violated constraint's requirements.</u>	Same as proposed clause 3.6.7.
		NEW	<u>3.6.7.5 The prices determined from the automatic pricing re-run shall be the prices used for projections, dispatches and settlements.</u>	Same as proposed clause 3.6.7.
		NEW	<u>3.6.7.6 The automatic re-run process of detecting non-zero constraint violation variable values, setting up the relaxed dispatch optimization and solving it shall occur as quickly as possible or the time nominated in the Market Operator's published performance standards as required in clause 1.3.2.3.</u>	Same as proposed clause 3.6.7.
		NEW	<u>3.6.7.7 Subject to the procedures published in accordance with WESM Rules Clause</u>	Same as proposed clause 3.6.7.

Title	Section	Provision	Proposed Amendment	Rationale
			<u>3.6.7.8, the Market Operator may implement automatic pricing re-runs even where the market dispatch optimization model does not reflect non-zero constraint violation variable values.</u>	
		NEW	<u>3.6.7.8 The Market Operator shall develop and publish the procedures of the automatic pricing re-runs. Such procedures shall provide the criteria and conditions for performing the automatic pricing re-runs.</u>	<ul style="list-style-type: none"> • Same as proposed clause 3.6.7. • For transparency
Market Projections	3.7	The Market Operator shall prepare and publish week ahead projections and day ahead projections using the market dispatch optimization model, in accordance with the timetable.	The Market Operator shall prepare and publish week ahead projections, and day ahead projections, <u>and hour ahead projections</u> using the market dispatch optimization model, in accordance with the timetable.	For consistency with the proposed amendments in clause 3.1.
Week Ahead Projections	3.7.1	xxx 3.7.1.2 Market projections shall be prepared for all trading intervals within the relevant market horizon as defined in the timetable.	xxx 3.7.1.2 Market Week ahead projections shall be prepared for all trading one (1) hour intervals within the relevant market horizon as defined in the timetable. <u>3.7.1.3 Week ahead projections will be based on the market dispatch optimization model defined in section 3.6 based on input data prepared by the Market Operator over the appropriate time horizon in accordance with clause 3.7.4.</u>	Clarify basis of WAP.
Day Ahead Projections	3.7.2	xxx 3.7.2.2 Market projections shall be prepared for all trading intervals within the relevant market horizon as defined in the timetable.	xxx 3.7.2.2 Market Day ahead projections shall be prepared for all trading one (1) hour intervals <u>starting from the succeeding interval for up</u>	Clarify basis and timeline of DAP

Title	Section	Provision	Proposed Amendment	Rationale
			<p><u>to the end of the next trading day, with sensitivities,</u> within the relevant market horizon as defined in the timetable.</p> <p><u>3.7.2.3 Day ahead projections will be determined by running the market dispatch optimization model defined in section 3.6 with input data prepared by the Market operator over the appropriate time horizon in accordance with clause 3.7.4.</u></p>	
		NEW	<p><u>3.7.3 Hour Ahead Projections</u></p> <p><u>3.7.3.1 Hour ahead projections shall be prepared using the market dispatch optimization model by the Market Operator and published at every dispatch interval, in accordance with the timetable, to assist Trading Participants to anticipate and respond to spot market conditions which might reasonably be expected to occur over the next hour.</u></p> <p><u>3.7.3.2 Hour ahead projections shall be prepared for all dispatch intervals within the relevant market horizon as defined in the timetable.</u></p> <p><u>3.7.3.3 Hour ahead projections will be determined by running the market dispatch optimization model defined in section 3.6 with input data prepared by the Market Operator over the appropriate time horizon in accordance with clause 3.7.4.</u></p>	<p>If the dispatch interval were reduced to 5-minutes then there would be a period of up to 1-hour for which the market participant has no forward information. Per IES' Phase 2 Report, there is the potential for a "blind spot" between the present (RTD) dispatch interval and the first trading period of the DAP. To address this, the proposed "hour ahead projection" (HAP) will augment the RTD and fill in the gap (or "blind spot") between RTD and DAP. The HAP process would essentially extend the RTD process into the future for a 1 hour period, with the same resolution as the RTD process (5-minutes or 10-minutes). The HAP process would facilitate generators in making short-term decisions and provides a short-</p>

Title	Section	Provision	Proposed Amendment	Rationale
				term assessment of market outcomes.
Preparation of Market Projections	3.7.3	<p>3.7.3 Preparation of Market Projections</p> <p>3.7.3.1 Each market projection shall take into consideration:</p> <p style="text-align: center;">xxx</p> <p>(b) Reserve requirements, the anticipated market network model configuration, constraints and system security requirements for each reserve region, as advised by the System operator in accordance with clause 3.5.3;</p> <p style="text-align: center;">xxx</p> <p>3.7.3.2 xxx</p> <p>3.7.3.3 The Market Operator shall prepare a market projection corresponding to each load scenario developed under clause 3.7.3.2.</p> <p>3.7.3.4 xxx</p> <p>3.7.3.5 Market projections shall be prepared by the Market Operator through the application of the market dispatch optimization model to all trading intervals within the relevant market horizon as defined in the timetable.</p>	<p>3.7.33.7.4 Preparation of Market Projections</p> <p>3.7.3.13.7.4.1 Each market projection shall take into consideration:</p> <p style="text-align: center;">xxx</p> <p>(b) Reserve requirements, the anticipated market network model configuration, constraints and system security requirements for each reserve regionarea, as advised by the System operator in accordance with clause 3.5.3;</p> <p style="text-align: center;">xxx</p> <p>3.7.3.23.7.4.2xxx</p> <p>3.7.3.33.7.4.3 The Market Operator shall prepare a market projection corresponding to each load scenario developed under clause 3.7.3.2 3.7.4.2.</p> <p>3.7.3.43.7.4.4 xxx</p> <p>3.7.3.53.7.4.5 Market projections shall be prepared by the Market Operator through the application of the market dispatch optimization model to all tradingone (1) hour intervals or dispatch intervals, as applicable, within the relevant market horizon as defined in the timetable.</p>	<ul style="list-style-type: none"> • Renumbering • In accordance with the proposed amendments in clause 3.1

Title	Section	Provision	Proposed Amendment	Rationale
Preparation of Market Projections	3.7.3	<p>3.7.3.6 When preparing a market projection, the starting conditions for each successive trading interval shall be determined:</p> <p>(a) In respect of the first trading interval, as the actual, or expected, power system conditions at the time of the commencement of the market projection; and</p> <p>(b) In respect of subsequent trading intervals, as the projected power system conditions determined by the market dispatch optimization model for the end of the previous trading interval in that market projection.</p> <p style="text-align: center;">xxx</p> <p>3.7.3.7 xxx 3.7.3.8 xxx</p>	<p>3.7.3.63.7.4.6 When preparing a week ahead projections and day ahead market projection projections, the starting conditions for each successive trading one (1) hour interval shall be determined:</p> <p>(a) In respect of the first trading one (1) hour interval, as the actual, or expected, power system conditions at the time of the commencement of the market projection; and</p> <p>(b) In respect of subsequent trading one (1) hour intervals, as the projected power system conditions determined by the market dispatch optimization model for the end of the previous trading one (1) hour interval in that market projection.</p> <p style="text-align: center;">xxx</p> <p>3.7.3.7 3.7.4.7 xxx 3.7.3.8 3.7.4.8 xxx</p>	<ul style="list-style-type: none"> • Renumbering • To clarify that the starting conditions in clause 3.7.4.6, as revised, apply to the WAP and DAP • In accordance with the proposed amendments in clause 3.1
Preparation of Market Projections	3.7.3	NEW	<p><u>3.7.4.9 When preparing hour ahead projections, the starting conditions for each successive dispatch interval shall be determined:</u></p> <p><u>(a) In respect of the first dispatch interval, as the projected power system conditions determined by the market dispatch optimization model that was used to determine targets for the end of the current dispatch interval; and</u></p>	To provide the starting conditions for the HAP

Title	Section	Provision	Proposed Amendment	Rationale
			<u>(b) In respect of subsequent dispatch intervals, as the projected power system conditions determined by the market dispatch optimization model for the end of the previous dispatch interval executed as part of the hour ahead projection.</u>	
Published Information	3.7.4	<p>3.7.4 Published Information</p> <p>3.7.4.1 Based on the information referred to in clause 3.7.3, each market projection published by the Market Operator in accordance with the timetable shall contain the following information for each trading interval in the period covered by the market projection:</p> <p>(a) The assumed net load forecast at each market network node, plus required reserves for each reserve region;</p> <p>(b) The required level of reserve for each reserve region;</p> <p style="text-align: center;">xxx</p> <p>(e) Projected aggregate cleared reserve quantities for reserve regions and reserve facility categories;</p> <p style="text-align: center;">xxx</p> <p>(g) When applicable projected reserve prices for each reserve region; and</p> <p>(h) Identification and quantification of:</p> <p>(1) Projected load shedding requirement;</p>	<p>3.7.43.7.5 Published Information</p> <p>3.7.4.13.7.5.1 Based on the information referred to in clause 3.7.33.7.4, each market projection published by the Market Operator in accordance with the timetable shall contain the following information for each trading dispatch interval <u>or one (1) hour interval, as applicable,</u> in the period covered by the market projection:</p> <p>(a) The assumed net load forecast at each market network node, plus required reserves for each reserve regionarea;</p> <p>(b) The required level of reserve for each reserve regionarea;</p> <p style="text-align: center;">xxx</p> <p>(e) Projected aggregate cleared reserve quantities <u>schedules</u> for reserve regions <u>areas</u> and reserve facility categories;</p> <p style="text-align: center;">xxx</p> <p>(g) When applicable projected reserve prices</p>	For consistency.

Title	Section	Provision	Proposed Amendment	Rationale
		<p>xxx</p> <p>(4) Trading intervals for which low or inadequate capacity margins are projected to apply; and</p> <p>(5) Projected congestion on market network lines; and</p> <p>(6) Constraint violation coefficients.</p>	<p>for each reserve region area; and</p> <p>(h) Identification and quantification of:</p> <p>(1) Projected load shedding requirement;</p> <p>xxx</p> <p>(4) Trading One (1) hour intervals or dispatch intervals for which low or inadequate capacity margins are projected to apply; and</p> <p>(5) Projected congestion on market network lines; and</p> <p>(6) Constraint Non-zero constraint violation variables and their associated constraint violation coefficients.</p>	
Responsibilities of the Market Operator	3.8.1	<p>Prior to commencement of each trading interval, the Market Operator shall, in consultation with the Grid Operator, and in accordance with the timetable:</p> <p>(a) Determine, or estimate, the status of all generation facility for that trading interval;</p> <p>(b) Prepare a forecast of the unrestrained net load expected at each market trading node for the end of that trading interval;</p> <p>(c) Adjust that unrestrained net load forecast to account for load shedding, if required, in accordance with clause 3.9.5;</p> <p>(d) Determine the most appropriate network configuration and state to be assumed for the end of that trading interval;</p> <p>(e) Use the market dispatch optimization model to determine the target loading level in MW for</p>	<p>Prior to commencement of each trading dispatch interval, the Market Operator shall, in consultation with the Grid System Operator, and in accordance with the timetable:</p> <p>(a) Determine, or estimate, the status of all generation facility for that trading dispatch interval;</p> <p>(b) Prepare a forecast of the unrestrained net load expected at each market trading node for the end of that trading dispatch interval;</p> <p>(c) Adjust that unrestrained net load forecast to account for load shedding, if required, in accordance with clause 3.9.5;</p> <p>(d) Determine the most appropriate network configuration and state to be assumed for the end of that trading dispatch interval;</p> <p>(e) Use the market dispatch optimization model</p>	<ul style="list-style-type: none"> • Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval. • For clarity, grid operator was replaced with SO.

Title	Section	Provision	Proposed Amendment	Rationale
		<p>each scheduled generating unit or scheduled load and for each reserve facility for the end of that trading interval using the latest data from the System operator and Trading Participants; and</p> <p>(f) Submit to the System operator the dispatch schedule containing the target loading levels to be achieved at the end of that trading interval, determined in accordance with clause 3.8.1 (e).</p>	<p>to determine the target loading level in MW for each scheduled generating unit or scheduled load and for each reserve facility for the end of that trading dispatch interval using the latest data from the System operator and Trading Participants; and</p> <p>(f) Submit to the System operator the dispatch schedule containing the target loading levels to be achieved at the end of that trading dispatch interval, determined in accordance with clause 3.8.1 (e).</p>	
Responsibilities of the System operator	3.8.2.1	<p>During each trading interval, the System operator shall use its reasonable endeavors to:</p> <p>(a) xxx</p> <p>(d) Dispatch Constrain-on or Constrain-off generators or Must-Run Units if all available frequency regulation and contingency reserves are exhausted during a trading interval. The System Operator may also dispatch generators as Must-Run Units in specific grid areas which have become isolated from the rest of the grid and in which the Market Operator cannot determine the generator schedules;</p> <p>xxx</p>	<p>During each trading dispatch interval, the System operator shall use its reasonable endeavors to:</p> <p>(a) xxx</p> <p>(d) Dispatch Constrain-on or Constrain-off generators or Must-Run Units if all available frequency regulation and contingency reserves are exhausted during a trading dispatch interval. The System Operator may also dispatch generators as Must-Run Units in specific grid areas which have become isolated from the rest of the grid and in which the Market Operator cannot determine the generator schedules;</p> <p>xxx</p>	<ul style="list-style-type: none"> • Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval. • Deleted specific reserve categories to align with the proposed amendments in clause 3.3.
	3.8.2.2	<p>After each trading interval, in accordance with the timetable, the System operator shall advise the Market Operator of:</p> <p>(a) Situations in which it became necessary for dispatch instructions to deviate from the</p>	<p>After each trading dispatch interval, in accordance with the timetable, the System operator shall advise the Market Operator of:</p> <p>(a) Situations in which it became necessary for dispatch instructions to deviate from the</p>	Consistent with the proposed amendment in clause 3.1 and 3.3.

Title	Section	Provision	Proposed Amendment	Rationale
		<p>dispatch targets determined by the Market Operator during the trading interval; (b) Load Shedding or other directions issued by the System operator during the Trading Interval; (c) Significant incidents in which contingency reserve was called upon during the trading interval; (d) Network constraints which affected dispatch during the trading interval; (e) Binding security constraints which affected dispatch during the trading interval; and (f) Operational irregularities arising during the trading interval including but not limited to any circumstances in which there was prima facie evidence of a failure to follow dispatch instructions.</p> <p>The System Operator shall likewise provide a dispatch deviation report to the Market Operator, in accordance with the Timetable, detailing among others the circumstances and dispatch levels of units that were Constrained-on or Constrained-off or put on must-run during a Trading Interval.</p>	<p>dispatch targets determined by the Market Operator during the tradingdispatch interval; (b) Load Shedding or other directions issued by the System operator during the Tradingdispatch interval; (c) Significant incidents in which contingency reserve reserveancillary services was called upon during the tradingdispatch interval; (d) Network constraints which affected dispatch during the tradingdispatch interval; (e) Binding security constraints which affected dispatch during the tradingdispatch interval; and (f) Operational irregularities arising during the tradingdispatch interval including but not limited to any circumstances in which there was prima facie evidence of a failure to follow dispatch instructions.</p> <p>The System Operator shall likewise provide a dispatch deviation report to the Market Operator, in accordance with the Timetable and the dispatch conformance standards in clause 3.8.5, detailing among others the circumstances and dispatch levels of units that were Constrained-on or Constrained-off or put on must-run during a TradingDispatch Interval.</p>	
Communication of target loading levels	3.8.3	The System operator shall communicate the target loading levels to Trading Participants for each trading interval prior to the commencement of that trading interval in accordance with the timetable and consistent with the Grid Code.	<u>All dispatch targets shall be specified in units of megawatt (MW) and will apply to the end of the relevant dispatch interval unless otherwise stated.</u>	Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval.

Title	Section	Provision	Proposed Amendment	Rationale
			The System operator shall communicate the target loading levels to Trading Participants for each trading dispatch interval prior to the commencement of that trading dispatch interval in accordance with the timetable and consistent with the Grid Code.	
Dispatched Trading Participants	3.8.4	Trading Participants who are dispatched shall use reasonable endeavors to achieve a linear ramp rate over the trading interval reach the target loading level by the end of that trading interval and within the dispatch tolerances specified in clause 3.8.7 and those Trading Participants will not be required to operate in any different fashion unless required to: (a) Respond in accordance with reserve or ancillary service contracts; or (b) Respond to a direction in accordance with clauses 6.3 and 6.5.	Trading Participants who are dispatched shall use reasonable endeavors to achieve a linear ramp rate over the trading interval reach the target loading level by the end of that trading dispatch interval and within the dispatch tolerances conformance standards specified in clause 3.8.7 3.8.5 and those Trading Participants will not be required to operate in any different fashion unless required to: (a) Respond in accordance with reserve or ancillary service contracts; or (b) Respond respond to a direction in accordance with clauses 6.3 and 6.5.	<ul style="list-style-type: none"> • Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval. • Conformance standards refer to the automated monitoring system that is necessary for the System Operator to adequately monitor compliances with a shorter dispatch interval. See clause 3.8.5, as revised • Deletion of the requirement for linear ramping with the implementation of 5-minute dispatch interval. See clause 3.8.5. • Deletion of (a) since the dispatch conformance standards under clause 3.8.5, as amended, cover both energy and reserves.

Title	Section	Provision	Proposed Amendment	Rationale
Ramp Rate of Trading Participant	3.8.5	Where applicable, Trading Participants will be assumed to have a linear ramp rate over that trading interval to reach the target loading levels by the end of that trading interval.	Where applicable, Trading Participants will be assumed to have a linear ramp rate over that trading interval to reach the target loading levels by the end of that trading interval.	Deletion of the requirement for linear ramping with the implementation of 5-minute dispatch interval. Linear ramping, which mitigates intra-hour deviations in the current 1-hour dispatch interval is necessary. However, with the 5-minute dispatch, it will be more practical to monitor compliance with dispatch targets instead of monitoring linear ramping of all generating units every 5 minutes.
Deviations from the Ramp Rate	3.8.6	<p>If Trading Participants in some part of the power system deviate in aggregate from the assumed Linear Ramp Rate for any reason or as a result of any cause including the initiation of Load Shedding under Clause 3.9.3, these deviations shall be dealt with by the System Operator, utilizing the Reserves, or other Ancillary Services scheduled to deal with such circumstances, in accordance with Clause 3.3.</p> <p>Trading Participants are required to comply with linear ramping in any trading interval; otherwise, the Market Operator or the System Operator shall report the generator to the Market Surveillance Committee.</p>	<p>If Trading Participants in some part of the power system deviate in aggregate from the assumed Linear Ramp Rate for any reason or as a result of any cause including the initiation of Load Shedding under Clause 3.9.3, these deviations shall be dealt with by the System Operator, utilizing the Reserves, or other Ancillary Services scheduled to deal with such circumstances, in accordance with Clause 3.3.</p> <p>Trading Participants are required to comply with linear ramping in any trading interval; otherwise, the Market Operator or the System Operator shall report the generator to the Market Surveillance Committee.</p>	Consistent with clause 3.8.5.
Dispatch Tolerances	3.8.7	3.8.7 Dispatch Tolerances	3.8.7 3.8.5 Dispatch Tolerances <u>Conformance Standards</u>	<ul style="list-style-type: none"> • Conformance is presently assessed on a trading interval basis and is the joint responsibility of MO and SO. We propose to adopt the recommendation provided in

Title	Section	Provision	Proposed Amendment	Rationale
				<p>Section 4.8 of the WDS Phase 2 Report for an enhanced monitoring system to cover both energy and reserve services.</p> <ul style="list-style-type: none"> • Renumbering
Dispatch Tolerances	3.8.7	<p>3.8.7.1 Dispatch tolerances shall be set to allow limits on the extent to which Trading Participants may deviate from dispatch targets issued by the System operator.</p> <p>3.8.7.2 The Market Operator shall maintain and publish dispatch tolerances standards developed by the System operator for each type of plant, and location, in accordance with the Grid Code and Distribution Code.</p>	<p>3.8.7.1 <u>3.8.5.1</u> Dispatch tolerances shall be set to allow limits on the extent to which Trading Participants may deviate from dispatch targets issued by the System operator. <u>The Market Operator, in consultation with the System Operator and Trading Participants, shall develop dispatch conformance standards to be set forth in the relevant Market Manual.</u></p> <p><u>3.8.5.2 The dispatch conformance standards shall be consistent with the Grid Code and Distribution Code and, if possible, be set for each type of plant or location.</u></p> <p><u>3.8.5.3 The Market Operator, in consultation with the System Operator and Trading Participants, shall develop the procedures for the:</u> <u>(a) application of the dispatch conformance standards;</u> <u>(b) monitoring and reporting of non-compliances; and</u> <u>(c) events that a facility has been identified to be non-conforming.</u></p>	<ul style="list-style-type: none"> • Same as clause 3.8 • Renumbering

Title	Section	Provision	Proposed Amendment	Rationale
			<p>3.8.7.2 The Market Operator shall maintain and publish the dispatch tolerances standards developed by the System operator for each type of plant, and location, in accordance with the Grid Code and Distribution Code.</p>	
Dispatch Tolerances	3.8.7	NEW	<p><u>3.8.5.4 Checking for non-conformance shall take into account any ancillary service schedule, ancillary service responses, or emergency directions issued to dispatched Trading Participants, or the operation of a generation unit at its minimum stable level.</u></p> <p><u>3.8.5.5 The Market Operator shall implement the procedures in clauses 3.8.5.1 and 3.8.5.3 through a system to automatically check for non-conformance.</u></p> <p><u>3.8.5.6 The Market Operator, in consultation with the System Operator and Trading Participants, shall periodically review the application and the appropriateness of the procedures in clauses 3.8.5.1 and 3.8.5.3.</u></p> <p><u>3.8.5.7 The Market Operator shall maintain and publish the dispatch conformance standards in clause 3.8.5.1 and 3.8.5.3.</u></p>	<p>As further provided in Section 4.8 of the WDS Phase 2 Report, we propose to implement an automated conformance monitoring system (ACMS). The benefits of ACMS are:</p> <ul style="list-style-type: none"> • reduced manual intervention or human error; • enhanced transparency since participants will know the details of the algorithm(s) used to check for conformance; and • consistency between the MO and SO in the implementation of ACMS

Title	Section	Provision	Proposed Amendment	Rationale
Sanctions of Trading Participants	3.8.8	<p>3.8.8 Any Trading Participant who consistently fails to use its reasonable endeavors to act in accordance with Dispatch instructions issued under Clause 3.8.3, or who breaches the Dispatch Tolerance standards published under Clause 3.8.7.2, may be liable of a sanction imposed under Clause 7.2.</p> <p>Trading Participants that are not compliant to the Dispatch Schedule or linear ramping assumptions that have been identified by the System Operator to cause the constraining-off of other generating units shall compensate the Displaced Generator or Generators in accordance with the mechanism to be developed by the Market Operator under Clause 3.13.14.3.</p>	<p>3.8.8 3.8.6 Any Trading Participant who consistently fails to use its reasonable endeavors to act in accordance with Dispatch instructions issued under clause 3.8.3, or who breaches the Dispatch Tolerance conformance standards published under clause 3.8.7.2 3.8.5.2, may be liable of a sanction imposed under clause 7.2.</p> <p>Trading Participants that are not compliant to the Dispatch Schedule or linear ramping assumptions that have been identified by the System Operator to cause the constraining-off of other generating units shall compensate the Displaced Generator or Generators in accordance with the mechanism to be developed by the Market Operator under Clause 3.13.14.3. 3.13.13.3.</p>	<ul style="list-style-type: none"> • For consistency with the proposed amendments in clause 3.8 • The parties who will pay for the constrained-on and constrained-off generating units will be identified under the cost recovery mechanism in clause 3.13.13.3, as amended. • Renumbering
Market Operator Advice on Load Shedding	3.9.2	<p>In the event that:</p> <p>(a) Day ahead projections performed under clause 3.7; or</p> <p>(b) Dispatch optimization performed under clause 3.8, indicate that nodal energy prices are expected to be equal to, or exceed, nodal VoLL at any customer nodes in the market network model, then the Market Operator shall immediately inform the System operator of the likelihood of initiating load shedding at those nodes.</p>	<p>In the event that:</p> <p>(a) Day ahead projections performed under clause 3.7; or</p> <p>(b) Dispatch optimization performed under clause 3.8, indicate that nodal loads are expected to be shed by the presence of non-zero nodal energy constraint violations variables or nodal energy dispatch prices which are expected to be equal to, or exceed, nodal VoLL at any customer market trading nodes in the market network model, then the Market Operator shall immediately inform the System operator of the likelihood of initiating load shedding at those nodes.</p>	Clarify content of MO's advice to SO on load shedding

Title	Section	Provision	Proposed Amendment	Rationale
Advising of Load Shedding	3.9.4	If it is anticipated that load shedding will occur in a trading interval, the System operator shall, as soon as possible, advise its load shedding plans to: xxx	If it is anticipated that load shedding will occur in a trading dispatch interval, the System operator shall, as soon as possible, advise its load shedding plans to: xxx	Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval.
Revising Forecasts	3.9.5	If advised by the System operator of the likelihood of load shedding in any trading interval under clause 3.9.4, the Market Operator shall, as soon as possible: (a) If practical within the time frame remaining before the start of that trading interval, revise the load forecasts to be used to determine the dispatch schedule for that trading interval in accordance with clause 3.5.4.4, to account for those load shedding plans; and xxx	If advised by the System operator of the likelihood of load shedding in any trading dispatch interval under clause 3.9.4, the Market Operator shall, as soon as possible: (a) If practical within the time frame remaining before the start of that trading dispatch interval, revise the load forecasts to be used to determine the dispatch schedule for that trading dispatch interval in accordance with clause 3.5.4.4, to account for those load shedding plans; and xxx	Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval.
Management Procedures for Excess Generation	3.9.8.2	Where necessary to shut down Generating Systems under Clause 3.9.8.1, the System Operator and the Market Operator shall manage all aspects of Dispatch and pricing in accordance with the procedures to be developed by the System Operator and the Market Operator, in consultation with WESM Participants, and subject to approval by the PEM Board. The procedures shall also take into account the occurrence of excess generation during a trading interval when the System Operator has exhausted its Ancillary Services to address the excess generation.	Where necessary to shut down Generating Systems under clause 3.9.8.1, the System Operator and the Market Operator shall manage all aspects of Dispatch and pricing in accordance with the procedures to be developed by the System Operator and the Market Operator, in consultation with WESM Participants, and subject to approval by the PEM Board. The procedures shall also take into account the occurrence of excess generation during a trading dispatch interval when the System Operator has exhausted its Ancillary Services to address the excess generation.	Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval.
	3.9.8.3	During a Trading Interval, if Excess Generation is imminent or is detected in the Power System	During a Trading dispatch interval, if Excess Generation is imminent or is detected in the	Consistent with the proposed amendment in clause 3.1 on the

Title	Section	Provision	Proposed Amendment	Rationale
		by the System Operator in accordance with the Grid Code and it is established that the Excess Generation is being caused by a Generating System that is not following its dispatch schedule or observing a linear ramp rate, then the Generation Company representing the Generating System in the market may be liable of a sanction under Clause 7.2. xxx	Power System by the System Operator in accordance with the Grid Code and it is established that the Excess Generation is being caused by a Generating System that is not following its dispatch schedule or observing a linear ramp rate, then the Generation Company representing the Generating System in the market may be liable of a sanction under Clause 7.2. xxx	implementation of dispatch interval.
Management Procedures for Reserve Violation	3.9.9	3.9.9.1 Should either the dispatch optimization or any market projection indicate a violation of a reserve requirement, the Market Operator shall: (a) Promptly advise the System operator that it may be necessary to reduce the level of the reserve requirement. (b) Reduce the reserve requirement by the minimum amount to a level that prevents a violation of that requirement. (c) Solve the market dispatch optimization model with the reduced reserve requirement. 3.9.9.2 The prices determined in clauses 3.10.2, 3.10.6 and 3.10.10 will be derived from the solution of the market dispatch optimization model provided for in clause 3.9.9.1 (c)	3.9.9.1 Should either the dispatch optimization or any market projection indicate a violation of a reserve requirement, the Market Operator shall: (a) Promptly advise the System operator that it may be necessary to reduce the level of the reserve requirement. (b) Reduce the reserve requirement by the minimum amount to a level that prevents a violation of that requirement. (c) Solve the market dispatch optimization model with the reduced reserve requirement. 3.9.9.2 The prices determined in clauses 3.10.2, 3.10.6 and 3.10.10 will be derived from the solution of the market dispatch optimization model provided for in clause 3.9.9.1 (c)	Deletion of unnecessary clause.
Calculation of Prices	3.10.1	For each trading interval, the Market Operator shall calculate, and publish in accordance with the timetable: (a) Ex-ante nodal energy prices in accordance with clause 3.10.2; (b) Ex-ante zonal energy prices in accordance with clause 3.10.3; (c) Ex-post nodal energy prices in accordance	For each trading <u>dispatch</u> interval, the Market Operator shall calculate, and publish in accordance with the timetable: (a) Ex-ante nodal energy <u>dispatch</u> prices in accordance with clause 3.10.2; (b) Ex-ante zonal energy prices in accordance with clause 3.10.3; (c) Ex-post nodal energy prices in accordance	<ul style="list-style-type: none"> With the implementation of the 5-minute dispatch interval, it is also being proposed for the WESM to adapt an ex-ante only pricing, with settlements being based on ex-ante prices and actual measured outcomes; and the ex-ante

Title	Section	Provision	Proposed Amendment	Rationale
		<p>with clause 3.10.6; (d) Ex-post zonal energy prices in accordance with clause 3.10.8; and (e) When applicable, zonal reserve prices in accordance with clause 3.10.10.</p>	<p>with clause 3.10.6; (d) Ex-post zonal energy prices in accordance with clause 3.10.8; and (e)(c) When applicable, zonal reserve prices in accordance with clause 3.10.103.10.7.</p>	<p>schedules would not be used in market settlements (see clause 3.14).</p> <p>The next 5-minute ex-ante price is expected to be similar with the ex-post price for the previous 5-minutes, since it will be based on current information about loads, available units and other system conditions, only they are forward-looking to the next dispatch interval, rather than back 5-minutes.</p> <ul style="list-style-type: none"> • Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval. • Renumbering
Determination of Ex-Ante Nodal Energy Price	3.10.2	<p>Determination of Ex-Ante Nodal Energy Price</p> <p>The ex-ante nodal energy price for each market trading node in any trading interval shall, subject to clause 3.10.5, be determined as the shadow price on the energy balance equation or equivalent mathematical formulation for that market trading node formed in accordance with clause 3.6.1.4 (c), in the dispatch optimization performed for that trading interval in accordance with clause 3.8.1.</p>	<p>Determination of Ex-Ante Nodal Energy Dispatch Price</p> <p>The ex-ante nodal energy dispatch price for each market trading dispatch node in any trading interval shall, subject to clause 3.10.5, be determined as the ex-ante shadow price on the energy balance equation or equivalent mathematical formulation for that market trading node formed in accordance with clause 3.6.1.4 (c), in the market dispatch optimization</p>	<ul style="list-style-type: none"> • Consistent with the proposed amendments in clause 3.10.1 • Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval. • Renumbering • For clarity

Title	Section	Provision	Proposed Amendment	Rationale
			performed for that trading dispatch interval in accordance with clause 3.8.1.	
Publishing Ex-Ante Prices According to Timetable	3.10.4	The Market Operator shall publish the ex-ante nodal energy prices and the ex-ante zonal energy prices, prior to the commencement of the trading interval to which they apply in accordance with the timetable.	The Market Operator shall publish the ex-ante nodal energy dispatch prices and the ex-ante zonal energy prices, prior to the commencement of the trading dispatch interval to which they apply in accordance with the timetable.	<ul style="list-style-type: none"> • Consistent with the proposed amendments in clause 3.10.1 • Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval.
Pricing Error Notice	3.10.5	<p>In the event where no ex-ante prices can be determined or communicated within the timeframe specified by the timetable, or the calculated prices are believed to be in error, as a result of load shedding, occurrence of constraints violation coefficients, or for any other reason:</p> <p>(a) The Market Operator may, as soon as possible after the end of a trading interval, issue a pricing error notice, in which case, the ex-post quantities and the ex post prices determined according to clause 3.10.7 shall also serve as ex-ante quantities and ex-ante prices. If no ex-post prices can be determined or the calculated prices are believed to be in error as a result of the imposition or relaxation of constraints pursuant to clause 3.5.13.1, the Market Operator shall re-run the Market Dispatch Optimization Model.</p> <p>The Market Operator shall develop and publish the procedures for the determination of the market re-run prices. Such procedures shall provide the criteria and conditions for the</p>	<p>3.10.5.1 In the event where no ex-ante dispatch prices can be determined or communicated within the timeframe specified by the timetable, or the calculated prices are believed to be in error, notwithstanding the application of automatic pricing re-run under clause 3.6.7.1, as a result of load shedding, occurrence of constraints violation coefficients, or for any other reason,:</p> <p>(a) The Market Operator may issue a pricing error notice, as soon as possible after the end of a trading dispatch interval, issue a pricing error notice, in which case, the ex-post quantities and the ex post prices determined according to clause 3.10.7 shall also serve as ex-ante quantities and ex-ante prices. If no ex-post prices can be determined or the calculated prices are believed to be in error as a result of the imposition or relaxation of constraints pursuant to clause 3.5.13.1, and the Market Operator shall implement a manual re-run with appropriately revised inputs in the Market Dispatch Optimization Model.</p>	<ul style="list-style-type: none"> • Consistent with the proposed Automatic Pricing Re-run in clause 3.6.7. • Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval. • Consistent with the proposed amendments in clause 3.10.1

Title	Section	Provision	Proposed Amendment	Rationale
		market re-run and the timetable for implementation.	<p><u>3.10.5.2 Upon issuance of a pricing error notice, the Market Operator may, as soon as practicable, implement a market pricing re-run.</u></p> <p><u>3.10.5.3 The market pricing re-runs may be determined through the Market Dispatch Optimization Model using appropriately revised inputs.</u></p> <p><u>3.10.5.4</u> The Market Operator shall develop and publish the procedures for the determination of the manual-market pricing re-run prices. Such procedures shall provide the criteria and conditions for the manual market pricing re-run and the timetable for implementation.</p> <p><u>3.10.5.5 The procedures developed for the market pricing re-runs shall be designed to produce prices reflecting supply shortages at any nodes where there was load shedding and prices reflecting supply excess where there was excess generation.</u></p>	
		(b) If no pricing error notice is issued within the time specified in the foregoing paragraph, the ex-post prices and quantities shall serve as ex-ante prices and quantities and shall stand irrespective of the outcome of any subsequent investigations or resolutions of any dispute.	(b) If no pricing error notice is issued within the time specified in the foregoing paragraph, the ex-post prices and quantities shall serve as ex-ante prices and quantities and shall stand irrespective of the outcome of any subsequent investigations or resolutions of any dispute.	Consistent with the proposed amendments in clause 3.10.1
		(c) Should the pricing error also include reserves, the reserve quantity and price	(c) Should the pricing error also include reserves, the reserve quantity and price	Consistent with the proposed amendments in clause 3.10.1

Title	Section	Provision	Proposed Amendment	Rationale
		determined in the ex-post run shall serve as the reserve quantity and prices.	determined in the ex-post run shall serve as the reserve quantity and prices.	
Determination of Ex-Post Nodal Energy Price	3.10.6	3.10.6Determination of Ex-Post Nodal Energy Price xxx	3.10.6Determination of Ex-Post Nodal Energy Price xxx	Consistent with the proposed amendments in clause 3.10.1
Procedures for Ex-Post Nodal Energy Price	3.10.7	3.10.7Procedures for Ex-Post Nodal Energy Price xxx	3.10.7Procedures for Ex-Post Nodal Energy Price xxx	Consistent with the proposed amendments in clause 3.10.1
Determination of Ex-Post Zonal Energy Prices	3.10.8	3.10.8Determination of Ex-Post Zonal Energy Prices xxx	3.10.8Determination of Ex-Post Zonal Energy Prices xxx	Consistent with the proposed amendments in clause 3.10.1
Determination of Ex-Ante And Ex-Post Energy Settlement Prices	3.10.9	3.10.9 Determination of Ex-Ante And Ex-Post Energy Settlement Prices Subject to clause 3.10.5, the ex-ante energy settlement prices and ex-post energy settlement prices for each market trading node in each trading interval shall be: (a) The ex-ante zonal energy price and the ex-post zonal energy price for that trading interval determined for that customer pricing zone in accordance with clauses 3.10.3 and 3.10.8, respectively, if that node is deemed to be a customer pricing node and to lie in a defined customer pricing zone; and (b) The ex-ante nodal energy price and the ex-post nodal energy price for that node, in that trading interval, determined in accordance with	3.10.93.10.6 Determination of Ex-Ante And Ex-Post Energy Settlement Prices Subject to clause 3.10.5, the ex-ante energy settlement prices and ex-post energy settlement prices for each market trading node in each trading <u>settlement</u> interval shall be <u>determined as</u> : (a)(b) The ex-ante <u>generation-weighted average</u> nodal energy <u>dispatch</u> prices and the ex-post nodal energy price for that node, in for the set of dispatch intervals corresponding to that trading settlement interval determined for that generator market trading node in accordance with clauses 3.10.2 and 3.10.6, respectively, for all other nodes; and (b) (a) The ex-ante <u>load-weighted average of</u>	Consistent with the proposed amendments in clause 3.10.1, it is also being proposed for the WESM to adapt an ex-ante only pricing, with settlements being based on ex-ante prices and actual measured outcomes.

Title	Section	Provision	Proposed Amendment	Rationale
		clauses 3.10.2 and 3.10.6, respectively, for all other nodes.	<p>its zonal nodal energy dispatch prices and the ex-post nodal energy price for the set of dispatch intervals corresponding to that trading settlement interval determined for that customer pricing market trading zone node in accordance with clauses 3.10.2 3.10.3 and 3.10.8, respectively, if that node is deemed to be a customer node and to lie in a defined customer pricing zone; and</p> <p><u>(c) When applicable, the ex-ante load-weighted average of the zonal energy prices for the set of dispatch intervals within that settlement interval determined for that customer market trading node in accordance with clauses 3.10.3, if that node is deemed to be a customer node and to lie within a defined customer pricing zone.</u></p>	
Determination of Zonal Reserve Price	3.10.10	<p>3.10.10 Determination of Zonal Reserve Price</p> <p>When applicable, the zonal reserve price for each market reserve zone in each trading interval shall be determined as the shadow price on the relevant reserve requirement constraint, defined in accordance with clause 3.6.1.4 (e), in the dispatch optimization for that trading interval and published by the Market Operator before the start of that trading interval.</p>	<p>3.10.10 <u>3.10.7 Determination of Zonal Reserve Price and Reserve Settlement Price</u></p> <p><u>(a)</u> When applicable, the zonal reserve price for each market reserve zone area and reserve category in each trading dispatch interval shall be determined as the shadow price on the relevant reserve requirement constraint, defined in accordance with clause 3.6.1.4 (e), in the dispatch optimization for that trading dispatch interval and published by the Market Operator before the start of that trading interval.</p> <p><u>(b) When applicable, the reserve settlement</u></p>	Consistent with the proposed amendments in clause 3.10.1, it is also being proposed for the WESM to adopt an ex-ante only pricing, with settlements being based on ex-ante prices and actual measured outcomes.

Title	Section	Provision	Proposed Amendment	Rationale
			<u>price for each reserve area and reserve category in each settlement interval shall be determined as the schedule-weighted average of the corresponding reserve prices for that reserve category.</u>	
Market Information	3.11.1.1	<p>The Market Operator shall publish the following:</p> <p>(a) Nodal energy prices for each market trading node;</p> <p>(b) Zonal energy prices for each customer energypricing zone;</p> <p>(c) When applicable, reserve prices for each reserve region; and</p> <p>(d) Binding network constraints, for each tradinginterval in accordance with the timetable.</p>	<p>The Market Operator shall publish the following:</p> <p>(a) Nodal energy dispatch prices for all dispatch intervals and for each market trading node;</p> <p>(b) Energy settlement prices for all settlement intervals and for each market trading node;</p> <p>(b)(c) Zonal energy prices for all dispatch intervals and for each customer energy pricing zone;</p> <p>(d) Zonal energy settlement prices for all settlement intervals and for each customer pricing zone;</p> <p>(e)(e) When applicable, reserve prices and reserve settlement prices and requirements for each reserve region area and reserve category; and</p> <p>(d)(f) Binding network constraints, for each trading dispatch interval in accordance with the timetable;</p> <p>(g) Violated network and other constraints and the corresponding non-zero constraint violation variable values;</p> <p>(h) The status of all elements of the market network model such as network element outages, network switch and circuit breaker</p>	Consistent with the proposed amendments in clause 2.3.1.3, 3.1, and 3.10.1.

Title	Section	Provision	Proposed Amendment	Rationale
			statuses; and <u>(i) After the trading day:</u> <u>(1) all information necessary to recreate or independently verify the market projections, dispatches and prices, and</u> <u>(2) for a WESM participant the specific information that would enable the participant to recreate or independently verify its settlements.</u>	
Market Information	3.11.1.2	As part of the information record under clause 5.2.5, the Market Operator shall retain details of: <div style="text-align: center;">xxx</div> (d) Including, for each trading interval and dispatch offer and dispatch bid: <div style="text-align: center;">xxx</div>	As part of the information record under clause 5.2.5, the Market Operator shall retain details of: <div style="text-align: center;">xxx</div> (d) Including, for each trading dispatch interval and dispatch offer and dispatch bid: <div style="text-align: center;">xxx</div>	Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval.
Market Information	3.11.1.3	Each trading day, in accordance with the timetable, the Market Operator shall publish: (a) The scheduled generation or scheduled load and scheduled reserves for each scheduled generating unit and scheduled load, respectively, in each trading interval for the previous trading day; and (b) A summary of the information provided to it with respect to each trading interval by the System operator in accordance with clause 3.8.2.2.	Each trading day, in accordance with the timetable, the Market Operator shall publish: (a) The scheduled generation or scheduled load and scheduled reserves for each scheduled generating unit and scheduled load, respectively, in each dispatch interval in the trading settlement intervals for the previous trading day; and (b) A summary of the information provided to it with respect to each trading dispatch interval by the System operator in accordance with clause 3.8.2.2.	Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval.
Market Information		NEW	<u>3.11.1.3 All information available to all market participants shall be deemed to be publicly available information.</u>	For clarity on the distribution of public information.

Title	Section	Provision	Proposed Amendment	Rationale
Financial Transmission Rights		NEW	<u>3.12.7 Price Substitution Methodology for Congestion</u> <u>Prior to the implementation of the financial transmission rights, the Market Operator shall develop and publish a market manual that details the methodology for price substitution in the event of extreme nodal price separation arising from network congestion.</u>	Provision on the price substitution methodology.
Submission of Bilateral Contract Data	3.13.1	Submission of Bilateral Contract Data	Submission of Bilateral Contract Data <u>for Energy</u>	To differentiate from the submission of bilateral contract data for reserves.
Submission of Bilateral Contract Data	3.13.1.1	Trading Participants who sell electricity pursuant to bilateral contracts and wish those bilateral contracts to be accounted for in settlements shall, after each trading day, in accordance with the billing and settlements timetable: (a) Submit a schedule to the Market Operator specifying the MWH bilateral sell quantities at each relevant market trading node, in each trading interval of that trading day;	Trading Participants who sell electricity pursuant to bilateral contracts and wish those bilateral contracts to be accounted for in settlements shall, after each trading day, in accordance with the billing and settlements timetable: (a) Submit a schedule to the Market Operator specifying the MWH bilateral sell quantities at each relevant market trading node, in each trading <u>settlement</u> interval of that trading day;	Consistent with clause 3.1.
Submission of Bilateral Contract Data		NEW	<u>3.13.2 Submission of Bilateral Contract Data for Reserves</u> <u>3.13.2.1 When applicable, Trading Participants who sell reserve capacities pursuant to bilateral contracts with the System Operator, shall submit these bilateral contracts after each trading day, in accordance with the billing and settlements</u>	To differentiate from the submission of bilateral contract data for energy.

Title	Section	Provision	Proposed Amendment	Rationale
			<p><u>timetable to be accounted for in settlements.</u></p> <p><u>3.13.2.2 The System Operator shall also provide information on their contracted reserve capacities to the Market Operator for purposes of validating the capacities identified in clause 3.13.2.1</u></p>	
Submission of Transmission Right Data	3.13.2	<p>3.13.2 Submission of Transmission Right Data</p> <p>3.13.2.1 xxx</p> <p>3.13.2.2 Trading Participants who hold transmission rights and wish to have those transmission rights accounted for in settlements shall, after each trading day, in accordance with the timetable, submit to the Market Operator a schedule specifying:</p> <p>(a) xxx</p> <p>(b) The MWH quantities of each transmission right in each trading interval of that trading day, as they apply at the sending node;</p> <p>(c) The agreed loss differential associated with each transmission right, if any, as a proportion of the quantity specified in clause 3.13.2 (b); and</p> <p>(d) That the System operator is in agreement with the submission made under clause 3.13.2 (and providing evidence of that agreement), and will cover any deficit in that System operator's settlements position with the spot market under clause 3.13.15(b) arising as a result of honoring this transmission right.</p>	<p>3.13.23.13.3 Submission of Transmission Right Data</p> <p>3.13.2.13.3.1 xxx</p> <p>3.13.2.23.13.3.2 Trading Participants who hold transmission rights and wish to have those transmission rights accounted for in settlements shall, after each trading day, in accordance with the timetable, submit to the Market Operator a schedule specifying:</p> <p>(a) xxx</p> <p>(b) The MWH quantities of each transmission right in each trading settlement interval of that trading day, as they apply at the sending node;</p> <p>(c) The agreed loss differential associated with each transmission right, if any, as a proportion of the quantity specified in clause 3.13.23.13.3.2 (b); and</p> <p>(d) That the System operator is in agreement with the submission made under clause 3.13.23.13.3 (and providing evidence of that agreement), and will cover any deficit in that System operator's settlements position with the</p>	<ul style="list-style-type: none"> • Renumbering • Clause 3.13.15 was already deleted as per DOE DC No. 2004-07-008 dated 7 July 2004

Title	Section	Provision	Proposed Amendment	Rationale
			spot market under clause 3.13.15.1(b) arising as a result of honoring this transmission right.	
Data for Bilateral Contracts and Transmission Rights	3.13.3	<p>3.13.3 Data for Bilateral Contracts and Transmission Rights</p> <p>The Market Operator shall:</p> <p>(a) xxx</p> <p>(b) If the data provided under clause 3.13 is valid or complete, employ that data for settlements purposes in accordance with clauses 3.13.7 and 3.13.13.</p>	<p>3.13.3 3.13.4 Data for Bilateral Contracts and Transmission Rights</p> <p>The Market Operator shall:</p> <p>(a) xxx</p> <p>(b) If the data provided under clause 3.13 is valid or complete, employ that data for settlements purposes in accordance with clauses 3.13.7 and 3.13.13 3.13.12.</p>	Renumbering
Zonal Reserve Settlement Quantity	3.13.4	<p>3.13.4 Zonal Reserve Settlement Quantity</p> <p>The zonal reserve settlement quantity for each Trading Participant in each trading interval shall be calculated as:</p> <p>(a) The aggregate, across all of the Trading Participant's facilities in the relevant reserve region, of the reserve target determined by the dispatch optimization performed prior to the beginning of that trading interval, in accordance with clause 3.8.1; multiplied by</p> <p>(b) The reserve effectiveness factor for that reserve facility category to be determined by the System operator.</p>	<p>3.13.4 3.13.5 Zonal Reserve Settlement Quantity</p> <p>The zonal reserve settlement quantity for each Trading Participant in each trading settlement interval shall be calculated as:</p> <p>(a) The aggregate, across all of the Trading Participant's facilities in the relevant reserve region, of the reserve target determined by the dispatch optimization performed prior to the beginning of that trading interval, in accordance with clause 3.8.1; multiplied by average of the reserve dispatch target for each facility, less</p> <p>(b) The reserve effectiveness factor for that reserve facility category to be determined by the System operator reserve contract quantities, if any.</p>	<ul style="list-style-type: none"> • Renumbering • For clarity

Title	Section	Provision	Proposed Amendment	Rationale
Defining the Gross Ex-Ante Energy Settlement Quantity for Market Trading Nodes	3.13.5	3.13.5 Defining the Gross Ex-Ante Energy Settlement Quantity for Market Trading Nodes xxx	3.13.5 Defining the Gross Ex-Ante Energy Settlement Quantity for Market Trading Nodes xxx	Consistent with the proposed amendments in clause 3.10.1.
Defining the Gross Ex-Post Energy Settlement Quantity for Market Trading Nodes	3.13.6	Defining the Gross Ex-Post Energy Settlement Quantity for Market Trading Nodes For each trading interval, the gross ex-post energy settlement quantity before being adjusted for bilateral contracts for each market trading node shall be determined by the Market Operator as follows:	Defining the Gross Ex-Post Energy Settlement Quantity for Market Trading Nodes For each trading settlement interval, the gross ex-post energy settlement quantity before being adjusted for bilateral contracts for each market trading node shall be determined by the Market Operator as follows:	Consistent with the proposed amendments in clause 3.10.1.
		(a) If the market trading node is defined under clause 3.2.2.1 as lying on the boundary of the power system operated by the System Operator, the gross ex-post energy settlement quantity for the market trading node is the net metered flow into the power system operated by the System operator through the associated meter, provided however, that if the market trading node is a customer node, and there is no ERC-registered embedded generation facility associated with that node, or the source of injection cannot be traced, any injection shall not be accounted for in determining the gross ex-post energy settlement quantity for that node; (b) If the market trading node is defined under clause 3.2.2.2 as a generator node lying on the interface between networks, apparatus or	(a) If the market trading node is defined under clause 3.2.2.1 as lying on the boundary of the power system operated by the System Operator, the gross ex-post energy settlement quantity for the market trading node is the net metered flow into the power system operated by the System operator through the associated meter, provided however, that if the market trading node is a customer market trading node, and there is no ERC-registered embedded generation facility associated with that node, or the source of injection cannot be traced, any injection shall not be accounted for in determining the gross ex-post energy settlement quantity for that node; (b) If the market trading node is defined under clause 3.2.2.2 as a generator market trading node lying on the interface between networks,	

Title	Section	Provision	Proposed Amendment	Rationale
		<p>equipment operated by parties other than the System Operator the gross ex-post energy settlement quantity for the market trading node is the net metered flows through the associated meter from the Generation Company to the Customer side of the meter; and</p> <p>(c) If the market trading node is defined under clause 3.2.2.2 as a customer node lying on the interface between networks, apparatus or equipment operated by parties other than the System operator the gross ex-post energy settlement quantity for the market trading node is the negative of the amount determined for the corresponding generator node in clause 3.13.6.1(b).</p> <p>(d) If the net metered flows registered through a meter is inconsistent with the expected power flows at the market trading node to which that meter is associated, the Metering Services Provider shall determine and shall notify the Market Operator and the relevant Trading Participant the appropriate manner of determining the gross ex-post settlement quantity for that market trading node.</p>	<p>apparatus or equipment operated by parties other than the System Operator the gross ex-post energy settlement quantity for the market trading node is the net metered flows through the associated meter from the Generation Company to the Customer side of the meter; and</p> <p>(c) If the market trading node is defined under clause 3.2.2.2 as a customer <u>market trading</u> node lying on the interface between networks, apparatus or equipment operated by parties other than the System operator the gross ex-post energy settlement quantity for the market trading node is the negative of the amount determined for the corresponding generator <u>market trading</u> node in clause 3.13.6.1(b) <u>3.13.6(b)</u>.</p> <p>(d) If the net metered flows registered through a meter is inconsistent with the expected power flows at the market trading node to which that meter is associated, the Metering Services Provider shall determine and shall notify the Market Operator and the relevant Trading Participant the appropriate manner of determining the gross ex-post settlement quantity for that market trading node.</p>	
Energy Settlement Quantity Adjustments for Bilateral	3.13.7	<p>For settlement purposes, the ex-ante energy settlement quantity for any market trading node in any trading interval shall be determined by the Market Operator by adjusting the gross -ex-ante energy settlement quantity for that market trading node and any trading interval, as measured in accordance with clause 3.13.5 for</p>	<p>For settlement purposes, the ex-ante energy settlement quantity for any market trading node in any trading <u>settlement</u> interval shall be determined by the Market Operator by adjusting the gross ex-ante energy settlement quantity for that market trading node and any trading <u>settlement</u> interval, as measured in accordance with clause 3.13.5 for bilateral</p>	Consistent with the proposed amendments in clause 3.10.1.

Title	Section	Provision	Proposed Amendment	Rationale
		<p>bilateral contract quantities notified to the Market Operator under clause 3.13.1.1, or inferred by the Market Operator under clause 3.13.1.1 and accepted as valid under clause 3.13.1.2 by:</p> <p>(a) Subtracting all bilateral sell quantities notified for that node in that trading interval from the measured or estimated gross energy settlement quantity for that node in that trading interval; and</p> <p>(b) Adding all bilateral buy quantities inferred for that node in that trading interval to the measured or estimated gross energy settlement quantity for that node in that trading interval.</p>	<p>contract quantities notified to the Market Operator under clause 3.13.1.1, or inferred by the Market Operator under clause 3.13.1.1 and accepted as valid under clause 3.13.1.2 by:</p> <p>(a) Subtracting all bilateral sell quantities notified for that node in that trading settlement interval from the measured or estimated gross energy settlement quantity for that node in that trading settlement interval; and</p> <p>(b) Adding all bilateral buy quantities inferred for that node in that trading settlement interval to the measured or estimated gross energy settlement quantity for that node in that trading settlement interval.</p>	
Determining the Ex Ante Energy Trading Amount	3.13.8	<p>3.13.8 Determining the Ex Ante Energy Trading Amount</p> <p>For settlement purposes, the ex-ante energy trading amount for each market trading node and trading interval will be determined as the exante energy settlement price for that node in that trading interval multiplied by the ex-ante energy settlement quantity (in MWh) for that node in that trading interval.</p>	<p>3.13.8 Determining the Ex Ante-Energy Trading Amount</p> <p>For settlement purposes, the ex-ante energy trading amount for each market trading node and trading settlement interval will be determined as the exante energy settlement price for that node in that trading settlement interval multiplied by the ex-ante energy settlement quantity (in MWh) for that node in that trading settlement interval.</p>	Consistent with the proposed amendments in clause 3.10.1.
Determining the Ex Post Energy Trading Amount	3.13.9	<p>3.13.9 Determining the Ex Post Energy Trading Amount</p> <p>xxx</p>	<p>3.13.9 Determining the Ex Post Energy Trading Amount</p> <p>xxx</p>	Consistent with the proposed amendments in clause 3.10.1.

Title	Section	Provision	Proposed Amendment	Rationale
Determining the Reserve Trading Amount	3.13.10	<p>3.13.10 Determining the Reserve Trading Amount</p> <p>3.13.10.1 For settlement purposes, the reserve-trading amount for each Trading Participant who supplies reserve to a particular reserve region in a trading interval will be determined as the zonal reserve price for that reserve region in that trading interval multiplied by the zonal reserve settlement quantity for that Trading Participant in that reserve region for that trading interval.</p> <p>3.13.10.2 xxx</p>	<p>3.13.10.13.13.9 Determining the Reserve Trading Amount</p> <p>3.13.10.13.13.9.1 For settlement purposes, the reserve trading amount for each Trading Participant who supplies reserve to a particular reserve regionarea in a tradingsettlement interval will be determined as the zonal reserve price for that reserve regionarea in that tradingsettlement interval multiplied by the zonal reserve settlement quantity for that Trading Participant in that reserve regionarea for that tradingsettlement interval.</p> <p>3.13.10.23.13.9.2 xxx</p>	Consistent with the proposed amendments in clause 2.3.1.3, 3.1, and 3.10.1.
Determining the Reserve Cost Recovery Charge	3.13.11	<p>3.13.11 Determining the Reserve Cost Recovery Charge</p> <p>The reserve cost recovery charge for settlement purposes will be determined for each Trading Participant in each trading interval in accordance with the procedures developed under clause 3.3.5.</p>	<p>3.13.113.13.10 Determining the Reserve Cost Recovery Charge</p> <p>The reserve cost recovery charge for settlement purposes will be determined for each Trading Participant in each tradingsettlement interval in accordance with the procedures developed under clause 3.3.5.</p>	Renumbering
Calculation of Line Rental Trading Amounts	3.13.12	<p>3.13.12 Calculation of Line Rental Trading Amounts</p> <p>The Market Operator shall calculate the line rental trading amounts for each bilateral contract associated with the delivery of the bilateral contract quantities (BCQ) through the transmission line in the market network model as:</p>	<p>3.13.123.13.11 Calculation of Line Rental Trading Amounts</p> <p>The Market Operator shall calculate the line rental trading amounts for each bilateral contract associated with the delivery of the bilateral contract quantities (BCQ) through the transmission line in the market network model as:</p>	<ul style="list-style-type: none"> • Renumbering • Consistent with the proposed amendments in clause 3.10.1.

Title	Section	Provision	Proposed Amendment	Rationale
		<p>(a) The expected flow of energy out of the receiving node of the market network line as determined by the market dispatch optimization model multiplied by the ex-ante nodal energy settlement price at that node; less</p> <p>(b) The expected flow of energy into the sending node multiplied by the ex-ante nodal energy settlement price at that node of the market network line as determined by the market dispatch optimization model.</p>	<p>(a) The expected flow of energy out of the receiving node of the market network line as determined by the market dispatch optimization model multiplied by the ex-ante nodal energy settlement price at that node; less</p> <p>(b) The expected flow of energy into the sending node multiplied by the ex-ante nodal energy settlement price at that node of the market network line as determined by the market dispatch optimization model.</p>	
Determining the Transmission Rights Trading Amount	3.13.13	<p>3.13.13 Determining the Transmission Rights Trading Amount</p> <p>For settlement purposes, the transmission right trading amount for each transmission right in each trading interval is to be determined as:</p> <p>(a) The MWh capacity of that transmission right in that trading interval as notified under clause 3.13.2, multiplied by the ex ante energy settlement price for the receiving node in that trading interval; minus the sum of</p> <p>(b) The MWh capacity of that transmission right, in that trading interval, as notified under clause 3.13.2, multiplied by the ex ante energy settlement price at the sending node in that trading interval; plus</p> <p>(c) The MWh capacity of that transmission right in that trading interval, as notified under clause 3.13.2, multiplied by the agreed loss differential for that transmission right, as notified under clause 3.13.2, multiplied by the ex ante energy</p>	<p>3.13.13 3.13.12 Determining the Transmission Rights Trading Amount</p> <p>For settlement purposes, the transmission right trading amount for each transmission right in each trading interval is to be determined as:</p> <p>(a) The MWh capacity of that transmission right in that trading interval as notified under clause 3.13.2, multiplied by the ex-ante energy settlement price for the receiving node in that trading settlement interval; minus the sum of</p> <p>(b) The MWh capacity of that transmission right, in that trading settlement interval, as notified under clause 3.13.2, multiplied by the ex-ante energy settlement price at the sending node in that trading settlement interval; plus</p> <p>(c) The MWh capacity of that transmission right in that trading settlement interval, as notified under clause 3.13.2, multiplied by the agreed loss differential for that transmission right, as notified under clause 3.13.2, multiplied by the</p>	<ul style="list-style-type: none"> • Renumbering • Consistent with the proposed amendments in clause 3.10.1. Also, “ex ante” is used to refer dispatch.

Title	Section	Provision	Proposed Amendment	Rationale
		settlement price at the receiving node in that trading interval.	ex-ante energy settlement price at the receiving node in that trading settlement interval.	
Settlement Amounts for Trading Participants	3.13.14	<p>3.13.14 Settlement Amounts for Trading Participants</p> <p>3.13.14.1 For each billing period, the Market Operator shall determine the settlement amount for each Trading Participant as the sum of the aggregate trading amounts for the trading intervals in that billing period, determined in accordance with clause 3.13.14.2: plus (As amended by DOE DC No. 2005-11-010 dated 11 November 2005)</p> <p>(a) Any amount payable by the Market Operator to that Trading Participant in respect of that billing period and not accounted for in clause 3.13.14.2, including payment for any ancillary services purchased on behalf of the System operator, less the sum of</p> <p>(b) Any market fees which that Trading Participant is required to pay in respect of that billing period as determined in accordance with clause 2.10; plus</p> <p>(c) Any other amounts payable by that Trading Participant to the Market Operator in respect of that billing period, including any ancillary services cost recovery charges.</p>	<p>3.13.14 3.13.13 Settlement Amounts for Trading Participants</p> <p>3.13.14.1 3.13.13.1 For each billing period, the Market Operator shall determine the settlement amount for each Trading Participant as the sum of the aggregate trading amounts for the trading settlement intervals in that billing period, determined in accordance with clause 3.13.14.2 3.13.13.2: plus (As amended by DOE DC No. 2005-11-010 dated 11 November 2005)</p> <p>(a) Any amount payable by the Market Operator to that Trading Participant in respect of that billing period and not accounted for in clause 3.13.14.2 3.13.13.2, including payment for any ancillary services purchased on behalf of the System operator, less the sum of</p> <p>(b) Any market fees which that Trading Participant is required to pay in respect of that billing period as determined in accordance with clause 2.10; plus</p> <p>(c) Any other amounts payable by that Trading Participant to the Market Operator in respect of that billing period, including any ancillary services reserves cost recovery charges.</p>	Renumbering
Settlement Amounts for Trading Participants	3.13.14	3.13.14.2 The aggregate trading amount for a Trading Participant for a trading interval equals the sum of:	3.13.14.2 3.13.13.2 The aggregate trading amount for a Trading Participant for a trading settlement interval equals the sum of:	<ul style="list-style-type: none"> Renumbering

Title	Section	Provision	Proposed Amendment	Rationale
		<p>(a) The ex-ante energy trading amounts for each market trading node for which that Trading Participant is responsible calculated in accordance with clause 3.13.8 (which will typically be positive for a Generation Company and negative for a Customer); plus</p> <p>(b) The ex-post energy trading amounts for each market trading node for which that Trading Participant is responsible calculated in accordance with clause 3.13.9 (which may be positive or negative for any Trading Participant); plus</p> <p>(c) The reserve trading amounts for each reserve region into which that Trading Participant contributes reserve calculated in accordance with clause 3.13.10 (which will always be positive for both Generation Companies and Customers); plus</p> <p>(d) The transmission right trading amounts for each transmission right held by the WESM Participant calculated in accordance with clause 3.13.13 (which will typically be positive for any Trading Participant); less the sum of</p> <p style="text-align: center;">xxx</p> <p>(e) The reserve cost recovery charge determined for that Trading Participant with respect to any reserve cost recovery zone within which it has any facility connected calculated in accordance with the procedures developed under clause 3.3.5 (which will be positive for any Trading Participant); and</p>	<p>(a) The ex-ante energy trading amounts for each market trading node for which that Trading Participant is responsible calculated in accordance with clause 3.13.8 (which will typically be positive for a Generation Company and negative for a Customer); plus</p> <p>(b)(a) The ex-post energy trading amounts for each market trading node for which that Trading Participant is responsible calculated in accordance with clause 3.13.93.13.8 (which may be positive or negative for any Trading Participant); plus</p> <p>(c)(b) The reserve trading amounts for each reserve regionarea into which that Trading Participant contributes reserve calculated in accordance with clause 3.13.103.13.9 (which will always be positive for both Generation Companies and Customers); plus</p> <p>(d)(c) The transmission right trading amounts for each transmission right held by the WESM Participant calculated in accordance with clause 3.13.133.13.12 (which will typically be positive for any Trading Participant); less the sum of</p> <p style="text-align: center;">xxx</p> <p>(e)(d) The reserve cost recovery charge determined for that Trading Participant with respect to any reserve cost recovery zonearea within which it has any facility connected</p>	<ul style="list-style-type: none"> Consistent with the proposed amendments in clause 2.3.1.3, 3.3.5.1, and 3.10.1.

Title	Section	Provision	Proposed Amendment	Rationale
		<p>(f) Any other ancillary service cost recovery charges determined for that Trading Participant in accordance with the procedures developed under clause 3.3.5 (which will be positive for any Trading Participant).</p> <p>3.13.14.3 xxx</p>	<p>calculated in accordance with the procedures developed under clause 3.3.5 (which will be positive for any Trading Participant); and (f)(e) Any other ancillary service reserve cost recovery charges determined for that Trading Participant in accordance with the procedures developed under clause 3.3.5 (which will be positive for any Trading Participant).</p> <p>3.13.14.33.13.13.3 xxx</p>	
	3.13.15	3.13.15 Deleted (As per DOE DC No. 2004-07-008 dated 7 July 2004)	3.13.15 Deleted (As per DOE DC No. 2004-07-008 dated 7 July 2004)	Deletion of currently deleted clause
Treatment of Remaining Settlement Surplus	3.13.16	<p>3.13.16 Treatment of Remaining Settlement Surplus</p> <p>3.13.16.1 If the transactions required by clauses 3.13.14.2 (a), (b) and (d), in aggregate, result in a surplus or deficit remaining, this will be known as the net settlement surplus.</p> <p>3.13.16.2 The net settlement surplus:</p> <p>(a) May be retained by the Market Operator, to fund deficit as a result of transactions required in clauses 3.13.14, or may be flowed back to the Market Participants in accordance with the procedures to be developed under 3.13.16.3, or may be used by the Market Operator to establish and support the market for Financial Transmission Rights subject to the approval of the PEM Board; and,</p>	<p>3.13.163.13.14 Treatment of Remaining Settlement Surplus</p> <p>3.13.16.13.13.14.1 If the transactions required by clauses 3.13.14.23.13.13.2 (a), (b) and (d), in aggregate, result in a surplus or deficit remaining, this will be known as the net settlement surplus.</p> <p>3.13.16.23.13.14.2 The net settlement surplus:</p> <p>(a) May be retained by the Market Operator, to fund deficit as a result of transactions required in clauses 3.13.143.13.13, or may be flowed back to the Market Participants in accordance with the procedures to be developed under 3.13.16.33.13.14.3, or may be used by the Market Operator to establish and support the market for Financial Transmission Rights subject to the approval of the PEM Board; and,</p>	Renumbering

Title	Section	Provision	Proposed Amendment	Rationale
		xxx	xxx	
		3.13.16.3 xxx	3.13.16.3 3.13.14.3 xxx	
Settlement Amounts for Trading Participants with Bilateral Contracts	3.13.17	<p>3.13.17 Settlement Amounts for Trading Participants with Bilateral Contracts</p> <p>3.13.17.1 For each billing period, the Market Operator shall determine the settlement amount for each trading participant with bilateral contract as the sum of the aggregate trading amounts for the trading intervals in that billing period, determined in accordance with clause 3.13.17.2 plus:</p> <p>(a) Any amount payable by the Market Operator to that Trading Participant in respect of that billing period and not accounted for in clause 3.13.17.2, including payment for any ancillary services purchased on behalf of the System operator, less the sum of</p> <p>(b) Any market fees which that Trading Participant is required to pay in respect of that billing period as determined in accordance with clause 2.10; plus</p> <p>(c) Any other amounts payable by that Trading Participant to the Market Operator in respect of that billing period, including any ancillary services recovery charges.</p>	<p>3.13.17.1 3.13.15.1 Settlement Amounts for Trading Participants with Bilateral Contracts</p> <p>3.13.17.1 3.13.15.1 For each billing period, the Market Operator shall determine the settlement amount for each trading participant with bilateral contract as the sum of the aggregate trading amounts for the trading settlement intervals in that billing period, determined in accordance with clause 3.13.17.2 3.13.15.2 plus:</p> <p>(a) Any amount payable by the Market Operator to that Trading Participant in respect of that billing period and not accounted for in clause 3.13.17.2 3.13.15.2, including payment for any ancillary services purchased on behalf of the System operator, less the sum of</p> <p>(b) Any market fees which that Trading Participant is required to pay in respect of that billing period as determined in accordance with clause 2.10; plus</p> <p>(c) Any other amounts payable by that Trading Participant to the Market Operator in respect of that billing period, including any ancillary services reserve cost recovery charges.</p>	<ul style="list-style-type: none"> • Renumbering • A/S traded in the WESM will be recovered using the reserve cost recovery charges, in accordance with clause 3.3.5.
Settlement Amounts for Trading Participants	3.13.17.2	3.13.17.2 The aggregate trading amount for a Trading Participant for a trading interval equals the sum of:	3.13.17.2 3.13.15.2 The aggregate trading amount for a Trading Participant for a trading settlement interval equals the sum of:	<ul style="list-style-type: none"> • Renumbering

Title	Section	Provision	Proposed Amendment	Rationale
with Bilateral Contracts		<p>(a) The ex-ante energy trading amounts for each market trading node for which the Trading Participants is responsible calculated in accordance with clauses 3.13.7 and 3.13.8 (which will typically be positive for a Generation Company and negative for a Customer); plus</p> <p>(b) The ex-post energy trading amounts for each market trading node for which the Trading Participant is responsible calculated in accordance with clauses 3.13.7 and 3.13.9 (which will typically be positive or negative for any Trading Participant); plus</p> <p>(c) The line rental trading amount corresponding to the quantity of bilateral contract of that Trading Participant calculated in accordance with clause 3.13.12; plus</p> <p>(d) The reserve trading amounts for each reserve region into which that Trading Participant contributes reserve calculated in accordance with clause 3.13.10 (which will always be positive for both Generation Companies and Customers); plus</p> <p>(e) The transmission right trading amounts for each transmission right held by the WESM Participant calculated in accordance with clause 3.13.13 (which will always be positive for both Generation Companies and Customers) plus</p> <p>(f) The reserve cost recovery charge determined for that Trading Participant with respect to any reserve cost recovery zone within which it has any facility connected calculated in accordance with the procedures</p>	<p>(a) The ex-ante energy trading amounts for each market trading node for which the Trading Participants is responsible calculated in accordance with clauses 3.13.7 and 3.13.8 (which will typically be positive for a Generation Company and negative for a Customer); plus</p> <p>(b)(a) The ex-post energy trading amounts for each market trading node for which the Trading Participant is responsible calculated in accordance with clauses 3.13.7 and 3.13.8 3.13.8 (which will typically be positive or negative for any Trading Participant); plus</p> <p>(c)(b) The line rental trading amount corresponding to the quantity of bilateral contract of that Trading Participant calculated in accordance with clause 3.13.12 3.13.11; plus</p> <p>(d)(c) The reserve trading amounts for each reserve region area into which that Trading Participant contributes reserve calculated in accordance with clause 3.13.10 3.13.9 (which will always be positive for both Generation Companies and Customers); plus</p> <p>(e)(d) The transmission right trading amounts for each transmission right held by the WESM Participant calculated in accordance with clause 3.13.13 3.13.12 (which will always be positive for both Generation Companies and Customers) plus</p> <p>(f)(e) The reserve cost recovery charge determined for that Trading Participant with respect to any reserve cost recovery zone area</p>	<ul style="list-style-type: none"> Consistent with the proposed amendments in clause 2.3.1.3, 3.3.5.1, and 3.10.1

Title	Section	Provision	Proposed Amendment	Rationale
		developed under clause 3.3.4 (which will be positive for any Trading Participant); and (g) Any other ancillary service cost recovery charges determined for that Trading Participant in accordance with the procedures developed under clause 3.3.4.	within which it has any facility connected calculated in accordance with the procedures developed under clause 3.3.4 3.3.5 (which will be positive for any Trading Participant); and (g)(f) Any other ancillary service reserve cost recovery charges determined for that Trading Participant in accordance with the procedures developed under clause 3.3.4 3.3.5 .	
Payment Default Procedure	3.14.11.3	If: xxx (c) The Market Operator receives notice from the defaulting WESM member that it is not likely to remedy the default specified in the default notice, then the Market Operator may issue a suspension notice in accordance with clause 3.15.7 under which the Market Operator notifies the defaulting WESM member that it is prohibited from participating in the spot market.	If: xxx (c) The Market Operator receives notice from the defaulting WESM member that it is not likely to remedy the default specified in the default notice, then the Market Operator may issue a suspension notice in accordance with clause 3.15.7 3.15.8 under which the Market Operator notifies the defaulting WESM member that it is prohibited from participating in the spot market.	Correction of clerical error. Issuance of suspension notice is provided under 3.15.8.
Replacement of Security	3.15.5.2	If: (a) A WESM member fails to comply with clause 3.15.5.1; and, (b) That WESM member does not remedy that failure within three (3) working days after being notified by the Market Operator of the failure, then the WESM member is deemed to be in default and the Market Operator shall give the WESM member a Suspension Notice in accordance with clause 3.15.7.	If: (a) A WESM member fails to comply with clause 3.15.5.1; and, (b) That WESM member does not remedy that failure within three (3) working days after being notified by the Market Operator of the failure, then the WESM member is deemed to be in default and the Market Operator shall give the WESM member a Suspension Notice in accordance with clause 3.15.7 3.15.8 .	Correction of clerical error. Issuance of suspension notice is provided under 3.15.8.
Drawdown of Security	3.15.6	If a WESM member fails to comply with clause 3.15.6.2 within the time period referred to in that clause, then the Market Operator shall give the WESM member a suspension notice in accordance with clause 3.15.7.	If a WESM member fails to comply with clause 3.15.6.2 within the time period referred to in that clause, then the Market Operator shall	Correction of clerical error. Issuance of suspension notice is provided under 3.15.8.

Title	Section	Provision	Proposed Amendment	Rationale
			give the WESM member a suspension notice in accordance with clause 3.15.7 3.15.8 .	
Suspension of a WESM Member	3.15.8.3	If a suspension notice is revoked, the Market Operator shall publicize that fact in the same manner in which the suspension notice was publicized in accordance with clause 3.15.7.1.	If a suspension notice is revoked, the Market Operator shall publicize that fact in the same manner in which the suspension notice was publicized in accordance with clause 3.15.7.1 3.15.8.1 .	Correction of clerical error. Publication of suspension notice is provided under 3.15.8.1.
Metering Installation Components	4.5.1	A metering installation shall: (a) xxx (e) Have electronic data recording facilities such that all metering data can be measured and recorded in trading intervals;	A metering installation shall: (a) xxx (e) Have electronic data recording facilities such that all metering data can be measured and recorded in trading intervals prescribed under the Grid Code and Distribution Code ;	For consistency with the Philippine Grid Code and Distribution Code.
Data Validation and Substitution	4.9	The Market Operator is responsible for the validation and substitution of metering data after being furnished settlement-ready metering data by the Metering Services Provider and shall develop data validation procedures in consultation with WESM Participants and in accordance with Appendix C1.2 (d).	The Market Operator is responsible for the validation and substitution of metering data after being furnished settlement-ready metering data by the Metering Services Provider and shall develop data validation procedures in consultation with WESM Participants and in accordance with Appendix C1.2 B1.2 (d).	Correction of reference.
Market Audit	5.2.6.2	The spot market audit shall cover and review compliance by the Market Operator with its procedures and the effectiveness and appropriateness of systems utilized in the operation of the spot market, including but not limited to: xxx (d) The scheduling and dispatch processes; xxx	The spot market audit shall cover and review compliance by the Market Operator with its procedures and the effectiveness and appropriateness of systems utilized in the operation of the spot market, including but not limited to: xxx (d) The market dispatch optimization model's pricing and dispatch scheduling and dispatch processes; xxx	For clarity

Title	Section	Provision	Proposed Amendment	Rationale
Market Response to Threat to System Security	6.6.4.3	The Market Operator may: (a) Invite Trading Participants to revise or re-bid their physical capabilities submitted by such Trading Participants in accordance with clause 3.4 in respect of the relevant trading interval; and xxx	The Market Operator may: (a) Invite Trading Participants to revise or re-bid their physical capabilities submitted by such Trading Participants in accordance with clause 3.4 in respect of the relevant trading dispatch interval; and xxx	Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval.
Force majeure event	6.7.1	A force majeure is the occurrence in a trading interval of an event or events not within the reasonable control, directly or indirectly, of the Market Operator and WESM member, to the extent that such event, despite the exercise of the reasonable diligence, cannot be or be caused to be prevented, or removed and has resulted in a reduction in the normal capacity of part or all of the power transmission system during that trading interval and such reduction is likely to materially affect the operation of the spot market or materially threaten system security.	A force majeure is the occurrence in a trading dispatch interval of an event or events not within the reasonable control, directly or indirectly, of the Market Operator and WESM member, to the extent that such event, despite the exercise of the reasonable diligence, cannot be or be caused to be prevented, or removed and has resulted in a reduction in the normal capacity of part or all of the power transmission system during that trading dispatch interval and such reduction is likely to materially affect the operation of the spot market or materially threaten system security.	Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval.
Declaration of Market Suspension	6.9.2.2	The spot market is deemed suspended at the start of the trading interval in which the ERC advises the Market Operator that the spot market is suspended.	The spot market is deemed suspended at the start of the trading dispatch interval or any one (1) hour interval in which the ERC advises the Market Operator that the spot market is suspended.	Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval.
Effect of Market Suspension	6.9.3.1	The market price during a trading interval in which the ERC has declared the spot market to be suspended and up to the time that the market resumes in accordance with 6.8.2.4 is to be determined by the Market Operator in accordance with clause 6.2.3.	The market price during a trading dispatch interval in which the ERC has declared the spot market to be suspended and up to the time that the market resumes in accordance with 6.8.2.4 is to be determined by the Market Operator in accordance with clause 6.2.3.	Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval.

Title	Section	Provision	Proposed Amendment	Rationale
Effect of Market Suspension	6.9.3.2	During a trading interval in which the spot market is suspended, the WESM Rules will continue to apply with such modifications as the Market Operator reasonably determines to be necessary, taking into consideration the circumstances and conditions giving rise to the decision by the ERC to suspend the spot market.	During a trading dispatch interval in which the spot market is suspended, the WESM Rules will continue to apply with such modifications as the Market Operator reasonably determines to be necessary, taking into consideration the circumstances and conditions giving rise to the decision by the ERC to suspend the spot market.	Consistent with the proposed amendment in clause 3.1 on the implementation of dispatch interval.
Breaches of the WESM Rules by WESM Members	7.2.2.8	The Enforcement and Compliance Officer may further recommend to the PEM Board that the WESM member determined to be in breach be suspended in accordance with clause 3.15.7 if the said Member has: xxx The Enforcement and Compliance Officer may recommend to the PEM Board for approval the suspension of the party in breach in accordance with clause 3.15.7.	The Enforcement and Compliance Officer may further recommend to the PEM Board that the WESM member determined to be in breach be suspended in accordance with clause 3.15.7 3.15.8 if the said Member has: xxx The Enforcement and Compliance Officer may recommend to the PEM Board for approval the suspension of the party in breach in accordance with clause 3.15.7 3.15.8 .	Correction of clerical error. Issuance of suspension notice is provided under 3.15.8.
Transitory Provisions	10			Suggest to retain Transitory Provisions, subject to DOE directives resulting from their ongoing harmonization of the WESM Rules.
Glossary	11	Ancillary services cost recovery charge. The charge payable by WESM members for recovery of the cost incurred by the Market Operator for the provision of Ancillary Services.	Ancillary services cost recovery charge. The charge payable by WESM members for recovery of the cost incurred by the Market Operator for the provision of Ancillary Services.	Consistent with the proposed changes in clause 3.3.5.2.
Glossary	11	NEW	Automatic Pricing Re-run. The automated process under clause 3.6.7 that solves the market dispatch optimization model with relaxed constraints after detecting non-zero constraint violation variable values to produce energy and reserve prices according to the timetable.	Consistent with clause 3.6.7.

Title	Section	Provision	Proposed Amendment	Rationale
Glossary	11	Contingency Reserve. The ability to respond so as to arrest a significant drop in system frequency such as would arise as a result of a credible contingency affecting one (or more) generating units within a region, or transmission flows into a region	Contingency Reserve. The ability to respond so as to arrest a significant drop in system frequency such as would arise as a result of a credible contingency affecting one (or more) generating units within a region, or transmission flows into a region	Consistent with the proposed changes in clause 3.3
Glossary	11	Constraint Violation Coefficients. Coefficients set by the Market Operator in accordance with clause 3.6.2. The Market Operator is to ensure that, if constraints shall be violated, such violation will occur in appropriate priority order.	Constraint Violation Coefficients. Coefficients set for constraint violation variables by the Market Operator in accordance with clause 3.6.2. The Market Operator is to ensure that, if constraints shall be violated, such violation will occur in appropriate priority order.	For clarity
Glossary	11	NEW	<u>Constraint Violation Variables. Variables set for constraints in the market dispatch optimization model to ensure a feasible solution in accordance with 3.6.2.</u>	For clarity
Glossary	11	Customer Node. A market trading node at which electricity will normally be purchased from the spot market and which is classified as a customer node in accordance with clause 3.2.2.2.	Customer Market Trading Node. A market trading node at which electricity will normally be purchased from the spot market and which is classified as a customer market trading node in accordance with clause 3.2.2.2.	For clarity
Glossary	11	Dispatch Tolerances. Limits on the extent to which Trading Participants may deviate from dispatch targets determined by the System operator in accordance with clause 3.8.7.	Dispatch Tolerances <u>Conformance Standards.</u> Limits on the extent to which Trading Participants may deviate from dispatch targets determined by the System operator <u>Standards that define whether or not dispatched Trading Participants comply with dispatch schedules and dispatch instructions for energy and reserves</u> in accordance with clause 3.8.7 3.8.5.	Same with clause 3.8.7
Glossary	11	NEW	<u>Dispatch Instruction. Refers to the instruction issued by the System Operator to Generation Companies with Scheduled</u>	For clarity.

Title	Section	Provision	Proposed Amendment	Rationale
			<u>Generating Units and the Generation Companies whose Generating Units will provide Ancillary Services to implement the final Dispatch Schedule in real time.</u>	
Glossary	11	NEW	<u>Dispatch Interval. A five-minute period commencing every five (5) minutes according to the Timetable and clause 3.4.1.</u>	Same as clause 3.1
Glossary	11	Dispatch Schedule. The target loading levels in MW for each scheduled generating unit or scheduled load and for each reserve facility for the end of that trading interval, determined by the Market Operator through the use of a market dispatch optimization model in accordance with clause 3.8.1.	Dispatch Schedule. The target loading levels in MW for each scheduled generating unit or scheduled load and for each reserve facility for the end of that trading dispatch interval, determined by the Market Operator through the use of a market dispatch optimization model in accordance with clause 3.8.1.	Same as clause 3.1
Glossary	11	Dispatchable Reserve. The ability to respond to a re-dispatch performed by the System operator during a trading interval, on either a regular or an ad hoc basis.	Dispatchable Reserve. The ability to respond to a re-dispatch performed by the System operator during a trading interval, on either a regular or an ad hoc basis.	Consistent with the proposed changes in clause 3.3
Glossary	11	Ex-Ante Energy Settlement Price. The ex-ante nodal energy price or the ex-ante zonal reserve price, as may be appropriate, determined in accordance with clause 3.10.12.	Ex-Ante Energy Settlement Price. The ex-ante <u>weighted average nodal energy dispatch prices or the ex-ante zonal energy prices or zonal reserve prices, as may be appropriate, for the set of dispatch intervals corresponding to a settlement interval, determined for a market trading node</u> in accordance with clause 3.10.12 3.10.6 .	Same as clauses 2.3.1.3, 3.1, and 3.10.1
Glossary	11	Ex-Ante Energy Settlement Quantity. The gross amount determined by the Market Operator in accordance with clause 3.13.5, and adjusted for bilateral contracts in accordance with clause 3.13.7.	Ex-Ante Energy Settlement Quantity. The gross amount determined by the Market Operator in accordance with clause 3.13.5 3.13.6 , and adjusted for bilateral contracts in accordance with clause 3.13.7.	Same as clause 3.10.1

Title	Section	Provision	Proposed Amendment	Rationale
Glossary	11	NEW	<u>Energy Trading Amount. Determined as the energy settlement price for that node in that settlement interval multiplied by the energy settlement quantity (in MWh) for that node in that settlement interval in accordance with clause 3.13.8.</u>	<ul style="list-style-type: none"> • Same as clause 3.10.1 • For consistency with the proposed amendments in clause 3.13.8
Glossary	11	Ex-Ante. A matter determined in relation to a trading interval before that trading interval commences.	Ex-Ante. A matter determined in relation to a trading dispatch interval before that trading dispatch interval commences.	Same as clause 3.1
Glossary	11	Ex-Ante Dispatch. The dispatch targets set for the end of a trading interval, immediately preceding the beginning of that trading interval.	Ex-Ante Dispatch. The dispatch targets set for the end of a trading interval, immediately preceding the beginning of that trading interval.	Also refers to dispatch schedule .
Glossary	11	Ex-Ante Nodal Energy Price. The price determined by the Market Operator for a particular market network node and trading interval, immediately prior to commencement of that trading interval, directly from the dispatch optimization for that trading interval in accordance with clause 3.10.2.	Ex-Ante Nodal Energy Dispatch Price. The price determined by the Market Operator for a particular market network node and trading dispatch interval, immediately prior to commencement of that trading dispatch interval, directly from the market dispatch optimization for that trading dispatch interval in accordance with clause 3.10.2. <u>In the case of market projections, the nodal energy price may be determined on a dispatch interval basis (hour ahead projections) or trading interval basis (day ahead projections and week ahead projections).</u>	Same as clause 3.1
Glossary	11	Ex-Ante Zonal Energy Price. The price determined by averaging ex-ante nodal energy prices in accordance with clause 3.10.3.	Ex-Ante Zonal Energy Price. The price determined by averaging ex-ante nodal energy prices in accordance with clause 3.10.3 for each customer pricing zone under clause 3.2.3.	Same as clause 3.10.1
Glossary	11	Ex-post. A matter determined in relation to a trading interval after that trading interval concludes.	Ex-post. A matter determined in relation to a trading interval after that trading interval concludes.	Same as clause 3.10.1

Title	Section	Provision	Proposed Amendment	Rationale
		<p>Ex-Post Energy Settlement Price. The ex-post nodal energy price or the ex-post zonal energy price, as appropriate, determined in accordance with clause 3.10.12.</p> <p>Ex-Post Energy Settlement Quantity. The amount determined by the System Operator in accordance with clause 3. 13.6.</p> <p>Ex-Post Nodal Energy Price. The price determined by the Market Operator for a particular market node and trading interval, after the end of that trading interval in accordance with clause 3.10.6.</p> <p>Ex-Post Zonal Energy Price. A price determined by averaging ex-post nodal energy prices in accordance with clause 3.10.11.</p>	<p>Ex-Post Energy Settlement Price. The ex-post nodal energy price or the ex-post zonal energy price, as appropriate, determined in accordance with clause 3.10.12.</p> <p>Ex-Post Energy Settlement Quantity. The amount determined by the System Operator in accordance with clause 3. 13.6.</p> <p>Ex-Post Nodal Energy Price. The price determined by the Market Operator for a particular market node and trading interval, after the end of that trading interval in accordance with clause 3.10.6.</p> <p>Ex-Post Zonal Energy Price. A price determined by averaging ex-post nodal energy prices in accordance with clause 3.10.11.</p>	
Glossary	11	Excess Generation. Generations which may be scheduled to occur in excess of load requirements, even though market energy prices have fallen to the market price floor, and which shall then be dealt with in accordance with clause 3.9.8.	Excess Generation. Generations which may be scheduled to occur in excess of load requirements, even though market nodal energy dispatch prices have fallen to the market price floor, and which shall then be dealt with in accordance with clause 3.9.8.	Same as clause 3.10.2
Glossary	11	Generator Node. A market trading node at which electricity will normally be sold to the spot market and which is classified as a generator node in accordance with clause 3.2.2.2.	Generator Market Trading Node. A market trading node at which electricity will normally be sold to the spot market and which is classified as a generator market trading node in accordance with clause 3.2.2.2.	For clarity
Glossary	11	Gross Ex-Ante/Ex-Post Energy Settlement Quantity. The ex-ante/ex-post energy settlement quantity determined in accordance with clauses 3.13.5/3.13.6 for a market trading	Gross Ex-Ante/Ex-Post Energy Settlement Quantity. The ex-ante/ex-post energy settlement quantity determined in accordance with clauses 3.13.5/3.13.6 for a market trading	Same as clause 3.10.1

Title	Section	Provision	Proposed Amendment	Rationale
		node, in a trading interval before any adjustment for bilateral contracts.	node, in a trading settlement interval before any adjustment for bilateral contracts.	
Glossary	11	NEW	<u>Hour Ahead Projection. Projections of market conditions for the dispatch intervals in the hour ahead determined and published by the Market Operator in accordance with clause 3.7.3.</u>	Same as clause 3.1
Glossary	11	Interruptible Load. Means load that a Customer is able to interrupt at very short notice in response to: (a) A frequency deviation; or (b) A request of the System operator, in order to meet contingency reserve requirements, subject to the requirements of the Grid Code and Distribution Code.	Interruptible Load. Means load that a Customer is able to interrupt at very short notice in response to: (a) A frequency deviation; or (b) A request of the System operator, in order to meet contingency reserve <u>applicable ancillary service</u> requirements, subject to the requirements of the Grid Code and Distribution Code.	Consistent with clause 3.3
Glossary	11	Line Rental. The economic rental arising from the use of a transmission line, calculated as the difference in value between flows out of the receiving node of that line and flows into the sending node, in accordance with clause 3.13.12.	Line Rental. The economic rental arising from the use of a transmission line, calculated as the difference in value between flows out of the receiving node of that line and flows into the sending node, in accordance with clause 3.13.12 <u>3.13.11</u> .	For consistency in the proposed amendments in clause 3.13.12.
Glossary	11	Load Weighted Average. An average produced by multiplying each nodal energy price by the load at that node, summing the results, and then dividing by the sum of the loads involved.	Load Weighted Average. An average produced by multiplying each nodal energy <u>dispatch</u> price by the load at that node, summing the results, and then dividing by the sum of the loads involved.	Same as clause 3.1
Glossary	11	Locationally Specific Reserve Requirement. A requirement for a particular reserve category to be met at a particular location, by reserve facilities in a particular reserve region in accordance with clause 3.3.5, and with costs to be recovered from a particular reserve cost	Locationally Specific Reserve Requirement. A requirement for a particular reserve category to be met at a particular location, by reserve facilities in a particular reserve region <u>area</u> in accordance with clause 3.3.5, and with costs to be recovered from a particular reserve cost	Same as clause 2.3.1.3 and 3.3.5.1.

Title	Section	Provision	Proposed Amendment	Rationale
		recovery zone, in accordance with clause 3.3.5.	recovery zone area , in accordance with clause 3.3.5.	
Glossary	11	Market Bid. A demand bid for a particular trading interval of a particular trading day in the current market horizon, whether formed from a standing bid in accordance with clause 3.5.10 or revised by the relevant Trading Participant, in accordance with clause 3.5.11.	Market Bid. A demand bid for a particular dispatch interval corresponding to a settlement interval of a particular trading day in the current market horizon, whether formed from a standing bid in accordance with clause 3.5.10 or revised by the relevant Trading Participant, in accordance with clause 3.5.11.	Same as clause 3.1
Glossary	11	Market Dispatch Optimization Model. The optimization model which contains the mathematical algorithm approved by the PEM Board to be used for the purposes of determining dispatch schedules and energy prices, and preparing market projections based on the price determination methodology approved by ERC.	Market Dispatch Optimization Model. The optimization model which contains the mathematical algorithm approved by the PEM Board to be used for the purposes of determining dispatch schedules and nodal energy dispatch prices, and preparing market projections based on the price determination methodology approved by ERC.	Same as clause 3.10.2
Glossary	11	Market Network Model. A mathematical representation of the power system, which will be used for the purpose of determining dispatch schedules and energy prices, and preparing market projections.	Market Network Model. A mathematical representation of the power system, which will be used for the purpose of determining dispatch schedules and nodal energy dispatch prices, and preparing market projections.	Same as clause 3.10.2
Glossary	11	Market Offer. A generation offer for a particular trading interval of a particular trading day in the current market horizon, whether formed from a standing offer in accordance with clause 3.5.10 or revised by the relevant Trading Participant, in accordance with clause 3.5.11.	Market Offer. A generation offer for a particular dispatch interval corresponding to a trading settlement interval of a particular trading day in the current market horizon, whether formed from a standing offer in accordance with clause 3.5.10 or revised by the relevant Trading Participant, in accordance with clause 3.5.11.	Same as clause 3.1
Glossary	11	Market Price. A generic term covering prices for energy and reserve, ex-ante or ex-post, nodal or zonal, as appropriate.	Market Price. A generic term covering prices for energy and reserve, ex-ante or ex-post , nodal or zonal, as appropriate.	Same as clause 3.10.1

Title	Section	Provision	Proposed Amendment	Rationale
Glossary	11	Market Projections. Week ahead or day ahead projections of spot market conditions, performed in accordance with clause 3.7.	Market Projections. Week ahead or , day ahead, or hour ahead projections of spot market conditions, performed in accordance with clause 3.7.	Same as clause 3.1
Glossary	11	Must-Run Unit (MRU). A generating unit identified and instructed, by the System Operator to either a) come on-line, or b) provide additional energy on a particular Trading Interval but the dispatch of which is said to be Out of Merit, to address System Security requirements. For clarity, MRU shall be utilized only after the System Operator has exhausted all available Ancillary Services. MRUs are classified as follows: a. Scheduled MRU - MRU designated by the System Operator before the trading interval and included in the Real Time Dispatch schedule through the imposition of Security Limit as defined in the WESM Dispatch Protocol Manual. b Real- Time MRU - MRU designated by the System Operator within a trading interval.	Must-Run Unit (MRU). A generating unit identified and instructed, by the System Operator to either a) come on-line, or b) provide additional energy on a particular Trading dispatch Interval but the dispatch of which is said to be Out of Merit, to address System Security requirements. For clarity, MRU shall be utilized only after the System Operator has exhausted all available Ancillary Services. MRUs are classified as follows: a. Scheduled MRU - MRU designated by the System Operator before the trading interval dispatch interval and included in the Real Time Dispatch schedule through the imposition of Security Limit as defined in the WESM Dispatch Protocol Manual. b Real- Time MRU - MRU designated by the System Operator within a trading dispatch interval.	Same as clause 3.1
Glossary	11	Net Settlement Surplus. The settlement surplus remaining after all market transactions have been accounted for, including the assignment of transmission line rentals to Network Service Providers. This remainder is assumed to be attributable to economic rentals arising from other binding constraints, and accounted for in accordance with clause 3.13.16.	Net Settlement Surplus. The settlement surplus remaining after all market transactions have been accounted for, including the assignment of transmission line rentals to Network Service Providers. This remainder is assumed to be attributable to economic rentals arising from other binding constraints, and accounted for in accordance with clause 3.13.16 3.13.14 .	For consistency in the proposed amendments in clause 3.13.16.
Glossary	11	Nodal Energy Price. The energy price at a node determined ex ante or ex-post.	Nodal Energy Price. The energy price at a node determined ex ante or ex-post	See proposed amendment on Ex-ante Nodal Energy Dispatch Price

Title	Section	Provision	Proposed Amendment	Rationale
			<u>Nodal Energy Dispatch Price. The price determined by the Market Operator for a particular market trading node and dispatch interval, immediately prior to commencement of that dispatch interval, directly from the dispatch optimization for that dispatch interval in accordance with clause 3.10.2.</u>	Consistent with the proposed amendments in clause 3.10.2.
Glossary	11	Non-Scheduled Generating Unit. A generating unit or a group of generating units connected at a common point with a nameplate rating and a combined nameplate rating of less than one tenth of one percent (<0.1%) of the peak load in a particular reserve region, or less than ten percent (<10%) of the size of the interconnection facilities, whichever is lower.	Non-Scheduled Generating Unit. A generating unit or a group of generating units connected at a common point with a nameplate rating and a combined nameplate rating of less than one tenth of one percent (<0.1%) of the peak load in a particular reserve region area , or less than ten percent (<10%) of the size of the interconnection facilities, whichever is lower.	Consistent with the proposed amendment in clause 2.3.1.4
Glossary	11	Pricing error notice. A notice issued in accordance with clause 3.9.6 advising the market that the ex ante prices for a particular trading interval are unavailable, or invalid.	Pricing error notice. A notice issued in accordance with clause 3.9.6 advising the market that the ex ante prices for a particular trading dispatch interval are unavailable, or invalid.	Same as clause 3.1
Glossary	11	Projection. A set of results derived in accordance with clause 3.7 from a series of market dispatch optimization model runs describing projected market conditions over a day-ahead or week-ahead market horizon for a particular scenario of net forecast load, and set of assumptions with respect to availability of key system elements.	Projection. A set of results derived in accordance with clause 3.7 from a series of market dispatch optimization model runs describing projected market conditions over a day-ahead, or week-ahead or hour ahead market horizon for a particular scenario of net forecast load, and set of assumptions with respect to availability of key system elements.	For consistency with the proposed implementation of hour ahead projections
Glossary	11	Receiving node. For a transmission line, the node from which there is a net flow of electricity out of that line in a particular trading interval to be accounted for in determining the	Receiving node. For a transmission line, the node from which there is a net flow of electricity out of that line in a particular trading interval settlement interval to be accounted for in	For consistency in the proposed amendments clauses 3.13.12 and 3.13.15.

Title	Section	Provision	Proposed Amendment	Rationale
		line rental, in accordance with clause 3.13.12. For a transmission right, the node to which the issuer of the transmission right is deemed to guarantee transfer of electricity, to be advised to the Market Operator in accordance with clause 3.13.2 and accounted for in accordance with clause 3.13.15.	determining the line rental, in accordance with clause 3.13.12 3.13.11 . For a transmission right, the node to which the issuer of the transmission right is deemed to guarantee transfer of electricity, to be advised to the Market Operator in accordance with clause 3.13.2 and accounted for in accordance with clause 3.13.15 .	
Glossary	11	Regulating Reserve. The ability to adjust generation continuously in response to small frequency changes, so a so as to cover load fluctuations or minor breakdowns, defined as an ancillary service in clause 3.3.4.2 (a).	Regulating Reserve. The ability to adjust generation continuously in response to small frequency changes, so a so as to cover load fluctuations or minor breakdowns, defined as an ancillary service in clause 3.3.4.2 (a).	Consistent with the proposed amendments in clause 3.3
Glossary	11	Reserve. Contingency reserve or regulating reserve.	<u>Reserve. Ancillary services that are traded in the WESM.</u>	General definition to ensure consistency with the proposed amendments in clause 3.3.
Glossary	11	Reserve Cost Recovery Zone. A zone within which reserve cost recovery charges may be recovered to meet each locationally specific requirement.	Reserve Cost Recovery Zone Area. An area zone within which reserve cost recovery charges may be recovered to meet each locationally specific requirement.	Same as clause 2.3.1.3.
Glossary	11	Reserve Effectiveness Factor. A factor to define the effectiveness of reserve from a particular type of reserve provider in meeting requirements for particular reserve categories.	Reserve Effectiveness Factor. A factor to define the effectiveness of reserve from a particular type of reserve provider in meeting requirements for particular reserve categories.	Same as clause 3.3.7.4.
Glossary	11	Reserve Facility Category. A particular type of reserve facility, characterized by its technology (eg interruptible load, synchronized generation, non-synchronized generation) which is reflected in the type of offer it can make, and the reserve effectiveness factor.	Reserve Facility Category. A particular type of reserve facility, characterized by its technology (eg interruptible load, synchronized generation, non-synchronized generation) which is reflected in the type of offer it can make, and the reserve effectiveness factor.	Same as clause 3.3.7.4.
Glossary	11	Reserve Region. A zone of the power system from which a particular reserve category can be supplied to meet a particular locationally specific requirement.	Reserve Region Area. An area zone of in the power system from which a particular reserve category can be supplied to meet a particular locationally specific requirement.	Same as clause 2.3.1.3 and for consistency in the proposed amendments in clause 3.3.

Title	Section	Provision	Proposed Amendment	Rationale
Glossary	11	NEW	<u>Reserve Trading Amount. Determined as the reserve trading price for that reserve area in that settlement interval multiplied by the reserve settlement quantity for that Trading Participant in that reserve area for that settlement interval in accordance with clause 3.13.9.</u>	For consistency in the proposed amendments in clause 3.13.10.
Glossary	11	Run. A particular instance of the market dispatch optimization model performed for a particular trading interval, or a set of such instances model performed for all the trading intervals in a market horizon.	Run. A particular instance of the market dispatch optimization model performed for a particular trading-dispatch interval, or a set of such instances model performed for all the trading-dispatch intervals in a market horizon.	Same as clause 3.1
Glossary	11	Scheduled Generating Unit. A generating unit so classified in accordance with clause 2.3.1.2 (a)(1). A generating unit or a group of generating units connected at a common connection point with a nameplate rating or a combined nameplate rating of greater than or one tenth of one percent (>0.1%) of the peak load in a particular reserve region.	Scheduled Generating Unit. A generating unit so classified in accordance with clause 2.3.1.2 (a)(1). A generating unit or a group of generating units connected at a common connection point with a nameplate rating or a combined nameplate rating of greater than or one tenth of one percent (>0.1%) of the peak load in a particular reserve region area .	Consistent with clause 2.3.1.3.
Glossary	11	Sending node. For a transmission line, the node into which there is a net flow of electricity out of that line in a particular trading interval to be accounted for in determining the line rental, in accordance with clause 3.13.12. For a transmission right, the node from which the issuer of the transmission right is deemed to guarantee transfer of electricity, to be advised to the Market Operator in accordance with clause 3.13.2 and accounted for in accordance with clause 3.13.15.	Sending node. For a transmission line, the node into which there is a net flow of electricity out of that line in a particular trading settlement interval to be accounted for in determining the line rental, in accordance with clause 3.13.12 3.13.11 . For a transmission right, the node from which the issuer of the transmission right is deemed to guarantee transfer of electricity, to be advised to the Market Operator in accordance with clause 3.13.2 and accounted for in accordance with clause 3.13.15.	For consistency in the proposed amendments in clauses 3.13.12 and 3.13.15.

Title	Section	Provision	Proposed Amendment	Rationale
Glossary	11	Settlement Amount. The amount payable by or to a Trading Participant, or Network Service Provider, in respect of a billing period as determined by the Market Operator under clause 3.13.14 or clause 3.13.15.	Settlement Amount. The amount payable by or to a Trading Participant, or Network Service Provider, in respect of a billing period as determined by the Market Operator under clause 3.13.14 3.13.13 or clause 3.13.15.	For consistency in the proposed amendments in clauses 3.13.14.
Glossary	11	NEW	<u>Settlement interval. A 1-hour period commencing on the hour according to the Timetable and clause 3.4.2.</u>	For consistency in the proposed amendments in clause 3.4.2
Glossary	11	Settlement Price. An ex-ante or ex-post energy settlement price.	Settlement Price. An ex-ante or ex-post or reserve settlement price.	Same as clause 3.10.1
Glossary	11	Settlement Quantity. An ex-ante or ex-post energy settlement quantity, or a zonal reserve settlement quantity.	Settlement Quantity. An ex-ante or ex-post energy settlement quantity, or a zonal reserve settlement quantity.	Same as clauses 2.3.1.3 and 3.10.1
Glossary	11	Suspension Notice. A notice issued by the Market Operator under clause 3.15.7.	Suspension Notice. A notice issued by the Market Operator under clause 3.15.7 3.15.8 .	Correction of clerical error. Issuance of suspension notice is provided under 3.15.8.
Glossary	11	NEW	<u>Technical Committee. The committee of that name established in accordance with clause 1.7.</u>	For consistency since other WESM Governance Committees are defined.
Glossary	11	Timetable. The timetable prepared by the Market Operator for operation of the spot market in accordance with clause 3.4.2.	Timetable. The timetable prepared by the Market Operator for operation of the spot market in accordance with clause 3.4.2 3.4.3 .	For consistency in the proposed amendments in 3.4.2 and 3.4.3,
Glossary	11	Trading Amount. The amount to be paid by, or paid to a Trading Participant, or Network Service Provider in respect of energy, reserve, line rentals, or transmission rights calculated in accordance with clauses 3.13.7, 3.13.8, 3.13.9, 3.13.10, or 3.13.14 respectively.	Trading Amount. The amount to be paid by, or paid to a Trading Participant, or Network Service Provider in respect of energy, reserve, line rentals, or transmission rights calculated in accordance with clauses 3.13.7, 3.13.8, 3.13.9, 3.13.10, or 3.13.14 3.13.13 respectively.	For consistency in the proposed amendments in clauses 3.13.10 and 3.13.14.
Glossary	11	Trading Day. The 24-hour period commencing according to the Timetable.	Trading Day. The 24-hour period commencing according to the Timetable.	Same as clause 3.1
Glossary	11	Trading interval. A 1-hour period commencing on the hour .	Trading interval. A 1-hour period commencing on the hour .	See Dispatch Interval.

Title	Section	Provision	Proposed Amendment	Rationale
Glossary	11	Transmission Right. The right to financial compensation based on differences between nodal energy prices at different market trading nodes as notified under clause 3.13.2, and settled in accordance with clause 3.13.15.	Transmission Right. The right to financial compensation based on differences between nodal energy dispatch prices at different market trading nodes as notified under clause 3.13.2 3.13.3 , and settled in accordance with clause 3.13.15 3.13.12 .	Consistent with the proposed amendments on the definition of nodal energy prices and clauses 3.13.2 and 3.13.15.
Glossary	11	Week Ahead Projections. The projections performed for the week-ahead market horizon by the Market Operators accordance with clause 3.7.1.	Week Ahead Projections. The projections performed for the week-ahead market horizon by the Market Operators in accordance with clause 3.7.1.	Clerical correction.
Glossary	11	WESM Participants. All Generation Companies, Distribution Utilities, Suppliers, Aggregators, End-users, the TRANSCO or its Buyer or Concessionaire, IPP Administrators, and other entities authorized by the ERC to participate in the WESM in accordance with the Act.	WESM Participants. All Generation Companies, Distribution Utilities, Suppliers, Aggregators, End-users, the TRANSCO or its Buyer or Concessionaire, IPP Administrators, and other entities under clause 2.2.1 that are authorized by the ERC to participate in the WESM in accordance with the Act.	Examples are provided under clause 2.2.1
Glossary	11	Zonal Energy Price. An ex-ante or ex-post zonal energy price.	Zonal Energy Price. An ex-ante or ex-post zonal energy price. The price determined in accordance with clause 3.10.3 for each customer pricing zone under clause 3.2.3.	Same as clause 3.10.1
Glossary	11	Zonal Reserve Price. The price for reserve in a particular supply zone, and trading interval, determined in accordance with clause 3.10.10.	Zonal Reserve Price. The price for reserve in a particular supply zone reserve area and dispatch trading interval, determined in accordance with clause 3.10.10 3.10.7 .	For consistency in the proposed amendments in clause 3.10.10.
Glossary	11	Zonal Reserve Settlement Quantity. The amount of reserve deemed to have been supplied by a reserve supplier in a particular reserve region and trading interval, determined in accordance with clause 3.13.4.	Zonal Reserve Settlement Quantity. The amount of reserve deemed to have been supplied by a reserve supplier in a particular reserve region area and trading settlement interval, determined in accordance with clause 3.13.4.	Same as clause 2.3.1.3
Generation Offer	Appendix A1.1	Generation offers: (a) Shall include the location of the connection	Generation offers: (a) Shall include the location of the connection	For consistency in the proposed amendments in clause 3.5.5.2.

Title	Section	Provision	Proposed Amendment	Rationale
		<p>point and relevant market network node; (b) Shall include the pricing zone of the connection point, (c) May include up to ten (10) energy offer blocks per (aggregate) unit. The maximum combined capacity of generation and reserve offers must not be less than the maximum available capacity of the generator. (As amended by DOE DC No. 2006-01-0001 dated 10 January 2006) (d) Shall be for a minimum block size of one (1) MW; (As amended by DOE DC No. 2013-03-0004 dated 22 March 2013) (e) Shall have monotonically increasing prices, starting from zero generation; (f) May include negative prices; (g) Shall include maximum up/down ramp rates; (h) Shall include a validity period of offers (e.g. valid for specified period or valid until offer is revised.); and (i) Shall include an operating range (upper and lower limit).</p>	<p>point and relevant market network node; (b) Shall include the pricing zone of the connection point; (c) May include up to ten (10) energy generation offer blocks per (aggregate) unit. The maximum combined capacity of generation and reserve offers must not be less than the maximum available capacity of the generator. (d) Shall be for a minimum block size of one (1) MW; (e) Shall have monotonically increasing prices, starting from zero generation; (f) May include negative prices; and (g) Shall include minimum and maximum up/down ramp rates.; (h) Shall include a validity period of offers (e.g. valid for specified period or valid until offer is revised.); and (i) Shall include an operating range (upper and lower limit).</p>	
Reserve Offers	Appendix A1.2	<p>A1.2 Reserve Offers Regulation reserve offers from Generators shall consist of: (a) xxx (d) A minimum block size of one (1) MW; (e) Monotonically increasing prices starting from zero for the first offer block, which shall correspond to the mandatory reserve capability required from that Generation Company under its connection agreement; and (f) Shall include validity period of reserve</p>	<p>A1.2 Reserve Offers Regulation reserve Reserve offers from Generators shall consist of: (a) xxx (d) A minimum block size of one (1) MW; (e) Monotonically increasing prices starting from zero for the first offer block, which shall correspond to the mandatory reserve capability required from that Generation Company under its connection agreement; and (f) Shall include validity period of reserve</p>	<ul style="list-style-type: none"> • For consistency in the proposed amendments in clause 3.3. • Renumbering

Title	Section	Provision	Proposed Amendment	Rationale
		<p>offers; and</p> <p>Contingency reserve offers from Generation Companies shall consist of:</p> <p>(a) xxx (g) xxx</p> <p>Contingency reserve offers from Customers shall consist of:</p> <p>(h) xxx (i) xxx (j) xxx (k) A minimum block size of one (1) MW; (l) Monotonically increasing prices; and (m) Shall include validity period of reserve offers.</p>	<p>offers; and</p> <p>Contingency reserve offers from Generation Companies shall consist of:</p> <p>(a) xxx (g) xxx</p> <p>Contingency reserve <u>Reserve</u> offers from Customers shall consist of:</p> <p>(h) <u>(a)</u> xxx (i) <u>(b)</u> xxx (j) <u>(c)</u> xxx (k) <u>(d)</u> A minimum block size of one (1) MW; <u>and</u> (l) <u>(e)</u> Monotonically increasing prices; and (m) Shall include validity period of reserve offers.</p>	
Information to be Supplied by Network Service Provider	Appendix A2	<p>Network Characteristics</p> <p>Most of these information will be supplied as standing data which will be updated only as required for a trading interval.</p>	<p>Network Characteristics</p> <p>Most of these information will be supplied as standing data which will be updated only as required for a trading <u>dispatch</u> interval.</p>	For consistency in the proposed amendments in clause 3.1.

Note: For convenience, please underline and put in bold letters the proposed changes to the WESM Rules.

IV. Referral

Date Received by MAG : _____

Proposed Amendment: ☐ Urgent ☐ Minor ☐ General

A. For Urgent Amendment (For the use of PEMC President only)

Date Referred to PEMC President	
Certifies as urgent	<input type="checkbox"/> Yes <input type="checkbox"/> No
Convene the RCC within 48 Hrs.:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

B. For Minor and General Amendment (For the use of RCC only)

Date Referred to RCC:	
Remarks:	

Action taken:	
Request for comments:	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Request written comments from: <input type="checkbox"/> DRG <input type="checkbox"/> MSC <input type="checkbox"/> PA <input type="checkbox"/> TC <input type="checkbox"/> MO <input type="checkbox"/> ECO <input type="checkbox"/> MAG <input type="checkbox"/> Other PEM Board Committees <input type="checkbox"/> Other Interested Parties
For further review of the Technical Sub-Committee/s:	<input type="checkbox"/> Yes Assigned to: <input type="checkbox"/> SO Sub-Committee <input type="checkbox"/> MO Sub-Committee <input type="checkbox"/> Metering Sub-Committee <input type="checkbox"/> Billing and Settlement Sub-Committee <input type="checkbox"/> Legal and Regulatory Sub-Committee
	<input type="checkbox"/> No
For public consultation:	<input type="checkbox"/> Yes <input type="checkbox"/> No
RCC Resolution:	<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved
RCC Resolution Number:	
Date of Resolution:	
RCC Meeting No.:	
Date of endorsement to the PEM Board:	