

**WHOLESALE ELECTRICITY SPOT MARKET
RULES CHANGE COMMITTEE**

RESOLUTION NO. 2017-09

**Proposed Amendments to the Market Operator Information Disclosure and
Confidentiality Manual for the Implementation of Enhancements to WESM
Design and Operations**

WHEREAS, pursuant to the DOE Department Circular No. 2015-10-0015¹ pertaining to the enhancements on WESM Design and Operations, the Philippine Electricity Market Corporation-Market Operator (PEMC-MO) submitted and presented to the Rules Change Committee (RCC) the Proposed Amendments to the Market Operator Information Disclosure and Confidentiality Manual for the Implementation of WESM Design Enhancements during its 128th Regular Meeting held on 11 April 2017;

WHEREAS, the proposal to amend the WESM Manual on Market Operator Information Disclosure and Confidentiality aims to provide changes in the publication of market information classification, categories, and requirements for the implementation of the following market features:

- i. Five (5) minute dispatch interval;
- ii. Ex-ante pricing only (i.e. no RTX) for energy and reserves for every 5-minute dispatch interval;
- iii. One (1) hour settlement interval for settlement purposes;
- iv. Automatic pricing corrections; and
- v. Additional market projections, i.e. hour-ahead projection (HAP) and hourly day-ahead projection (DAP) with load sensitivities;

WHEREAS, the proposed amendments also include clerical revisions and formatting in order to be consistent with the prescribed formatting for Market Manuals;

WHEREAS, after the initial deliberation on the proposed amendments, the RCC subsequently approved its publication in the market information website which allowed the WESM stakeholders to submit their respective comments within 30-working days from the official publication dated 12 April 2017;

WHEREAS, during the 130th RCC Regular Meeting held on 09 June 2017, the RCC deliberated on the proposed amendments to the WESM Manual on Market Operator Information Disclosure and Confidentiality considering the comments submitted by DOE, Market Surveillance Committee (MSC), Technical Committee (TC), SN Aboitiz Power and MERALCO;

¹ DOE DC No. 2015-10-0015 *Providing Policies for further Enhancement of the Wholesale Electricity Spot Market (WESM) Design and Operations*

WHEREAS, clerical corrections and minor amendments as submitted by the proponent and the WESM stakeholders have been adopted by the RCC in the provisions of the Market Manual;

WHEREAS, on Manila Electric Company's (MERALCO) recommendation to provide further procedures on the performance assessment of the retail metering services provider, the RCC requested for MERALCO to submit a rules change proposal amending the Retail Manual on Metering Standards and Procedures providing its proposed procedural method on the same;

WHEREAS, on the Market Surveillance Committee's (MSC) proposal to categorize as public market information the monthly aggregate metered quantity (MQ) of each Trading Participants and the 59th snapshot data, the RCC requested clarification from the MSC on the submission and for the MSC to submit the necessary rules changes amendment for its recommendation;

WHEREAS, on the proposed inclusion of *Planned Transmission Lines, Transformers and Generator Outages* in the Market Information Catalogue, the RCC disapproved the proposal noting that the publication of the Grid Operating and Maintenance Program is not provided in the WESM Rules;

WHEREAS, on the proposal to include in the Market Information Catalogue of *Status of all elements of the market network model such as network element outages, network switch and circuit breaker statuses*, the RCC agreed to limit the available data as it would require system development prior to implementation;

WHEREAS, on the confidentiality of *Over-riding Constraints, Contingency Limits and Outage Schedules Submitted by the System Operator to the Market Operator*, the DOE and SNAP recommended for the data to be categorized as public in order to provide more information to Trading Participants and interested parties on the availability of generators and transmission lines and to ensure that Trading participants can make informed decisions;

WHEREAS, the RCC adopted DOE and SNAP's proposal and furthermore clarified the timeline for the publication of *Over-riding Constraints, Contingency Limits and Outage Schedules Submitted by the System Operator to the Market Operator* during its 131st regular meeting held on 07 July 2017;


NOW THEREFORE, we, the undersigned and in behalf of the sector we represent, hereby resolve as follows:

RESOLVED, that the Proposed Amendments to the Market Operator Information Disclosure and Confidentiality Manual for the Implementation of Enhancements to WESM Design and Operations are hereby approved by the RCC;

RESOLVED FURTHER, that the attached Annex of the Proposed Amendments to the Market Operator Information Disclosure and Confidentiality Manual for the Implementation of Enhancements to WESM Design and Operations is hereby endorsed to the PEM Board for approval and endorsement to the DOE.

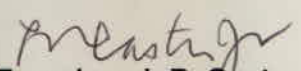
Done this 07 July 2017, Pasig City.

Approved by:
RULES CHANGE COMMITTEE

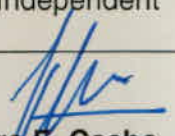

Maila Lourdes G. de Castro
Chairperson
Independent

Members:


Concepcion I. Tanglao
Independent

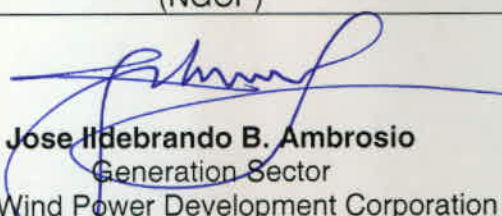

Francisco L.R. Castro, Jr.
Independent

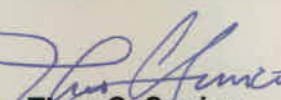

Allan C. Nerves
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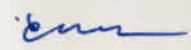

Isidro E. Cacho, Jr.
Market Operator
Philippine Electricity Market Corporation
(PEMC)

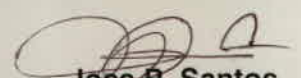
Ambrocio R. Rosales
Transmission Sector
National Grid Corporation of the Philippines
(NGCP)


Abner B. Tolentino
Generation Sector
Power Sector Assets and Liabilities Management
Corporation (PSALM)


Jose Ildebrando B. Ambrosio
Generation Sector
NorthWind Power Development Corporation


Theo C. Sunico
Generation Sector
Vivant Corporation

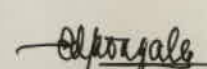

Ciprinilo C. Meneses
Distribution Sector (PDU)
Manila Electric Company
(MERALCO)


Jose P. Santos
Distribution Sector (EC)
Ilocos Norte Electric Cooperative, Inc.
(INEC)

Juanito Tolentino
Distribution Sector
Mactan Electric Company
(MECO)

Ludovico D. Lim
Distribution Sector
Antique Electric Cooperative, Inc.
(ANTECO)


Lorreto H. Rivera
Supply Sector
TeaM (Philippines) Energy Corporation
(TPEC)

Reviewed by:

Elaine D. Gonzales
Manager – Market Data and Analysis

**Proposed Amendments to the Market Operator Information Disclosure and Confidentiality Manual for the Implementation of
Enhancements to WESM Design and Operations**

Title	Section	Provision	Proposed Amendment	Rationale
Definitions	3	3 – Definitions	3 – Definitions SECTION 3 DEFINITIONS, REFERENCES, AND INTERPRETATION	
		<p>Unless otherwise defined, the terms used in this manual which are defined in the WESM Rules will bear the same meaning as defined in the WESM Rules.</p> <p>Some of the definitions are quoted here for convenience.</p>	<p>3.1 Definitions</p> <p>3.1.1. Unless otherwise defined, the terms used in this manual which are defined in the WESM Rules <u>and Market Manuals</u> will <u>shall</u> bear the same meaning as defined in the WESM Rules <u>and Market Manuals</u>.</p> <p>Some of the definitions are quoted here for convenience.</p> <p>3.1.2. The following words and phrases as used in this Market Manual shall have the following meaning:</p>	<p>To be consistent with the scope of the manual, which covers market information furnished to or received by, or produced or provided by the Market Operator in the course of or arising from its operations of the WESM, including information that is required by the WESM Rules and the various WESM manuals to be published, disclosed or protected by the Market Operator or the WESM members.</p>
		Disclose xxx	a. Disclose xxx	Renumbering
		Disclosing Party xxx	b. Disclosing Party xxx	
		Market information xxx	c. Market information xxx	
		Market Information Website xxx	Market Information Website xxx	These terms are already defined under the WESM Rules

Title	Section	Provision	Proposed Amendment	Rationale
		Market Operator xxx	Market Operator xxx	
		Market Transaction xxx	<u>d.</u> Market Transaction xxx	<ul style="list-style-type: none"> To be consistent with the formatting of Market Manuals Renumbering
		Recipient xxx	<u>e.</u> Recipient xxx	
		NEW	<p><u>3.2 References</u></p> <p><u>This Market Manual shall be read in association with the WESM Rules and other relevant Market Manuals.</u></p> <p><u>3.3 Interpretation</u></p> <p><u>3.3.1 Any reference to a clause in any section of this Market Manual shall refer to the particular clause of the same section in which the reference is made, unless otherwise specified or the context provides otherwise.</u></p> <p><u>3.3.2 Where there is a discrepancy or conflict between this Market Manual and the WESM Rules, the WESM Rules shall prevail.</u></p> <p><u>3.3.3 Standards and policies appended to, or referenced in, this Market Manual shall provide a supporting framework.</u></p>	

Title	Section	Provision	Proposed Amendment	Rationale
	4.1	4.1. Definition Confidential information is defined xxx	4.1. Definition Confidential information is defined xxx	To improve the flow of the provisions by removing the paragraph and refer to the Definition under the WESM Rules.
	4.2	4.2. Criteria for confidentiality	4.2 <u>4.1</u> . Criteria for confidentiality	Renumbering
	4.3	4.3. Information considered as confidential Without limiting the generality of the foregoing definition and criteria and subject to permitted disclosures set forth in this Manual and the WESM Rules, the following market information is confidential: a. bids and offers information identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i> ; b. energy and reserve dispatch projections and schedules (WAP, DAP, RTD, RTX) identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i> ; c. dispatch instruction identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i> ; d. transmission network data or information provided and classified by the System Operator as confidential information; c. dispatch instruction identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i> ;	4.3 <u>4.2</u> . Information considered as confidential Without limiting the generality of the foregoing definition and criteria and subject to permitted disclosures set forth in this <i>Manual</i> and the <i>WESM Rules</i> , the following market information is <u>shall be considered</u> confidential: a. bids and offers information identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i> ; b. energy and reserve dispatch projections and schedules (WAP, DAP, RTD, RTX) identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i> ; c. dispatch instruction identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i> ; d. transmission network data or information provided and classified by the <i>System Operator</i> as confidential information; e. metering installation information identifiable to a specific <i>Trading Participant</i> ;	<ul style="list-style-type: none"> • To be consistent with the 5-minute dispatch interval • Renumbering

Title	Section	Provision	Proposed Amendment	Rationale
		<p>d. transmission network data or information provided and classified by the System Operator as confidential information;</p> <p>e. metering installation information identifiable to a specific <i>Trading Participant</i>;</p> <p>f. raw, adjusted and edited metered data identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i>;</p> <p>g. settlement amounts, settlement statements and any other information contained in such statements and other settlement information identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i>;</p> <p>h. bilateral contract data declared by or identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i>;</p> <p>i. line rental information identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i>;</p> <p>j. prudential security information identifiable to a specific <i>Trading Participant</i>;</p> <p>k. Information on real-time system condition contained in advisories and notices received by the Market Operator from the System Operator</p> <p>l. projected output provided by <i>Trading Participants</i> in respect of their must dispatch generating units or</p>	<p>f. raw, adjusted and edited metered data identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i>;</p> <p>g. settlement amounts, settlement statements and any other information contained in such statements and other settlement information identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i>;</p> <p>h. bilateral contract data declared by or identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i>;</p> <p>i. line rental information identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i>;</p> <p>j. prudential security information identifiable to a specific <i>Trading Participant</i>;</p> <p>k. Information on real-time system condition contained in advisories and notices received by the Market Operator from the System Operator</p> <p>l. k. projected output provided by <i>Trading Participants</i> in respect of their must dispatch generating units or priority dispatch generating units that are identifiable to that <i>Trading Participant</i>; and</p> <p>m l. nomination of loading levels for <i>non-scheduled generating units</i>.</p> <p>This list is a non-exhaustive list.</p>	<ul style="list-style-type: none"> System Operator (SO) advisories are proposed to be public in nature, although these are being published by the Market Operator (MO) only through the Market Participant Interface of the Market Management System. The information from SO advisories are provided to the general public in other MO reports.

Title	Section	Provision	Proposed Amendment	Rationale
		<p>priority dispatch generating units that are identifiable to that <i>Trading Participant</i>; and</p> <p>m. nomination of loading levels for non-scheduled generating units.</p> <p>This list is a non-exhaustive list.</p>		
		<p>4.4. Information not considered as confidential</p> <p>4.4.1. The following information are not confidential:</p> <p>a. nodal/regional energy and reserve prices and (DAP, WAP, RTD and RTX)</p> <p>b. nodal administered prices, except if otherwise provided for in the WESM Rules and its amendments, regulation, market manual including this Manual or regulatory issuance or decision</p> <p>c. reserve requirements (WAP, DAP, RTD)</p> <p>d. load forecast (WAP, DAP, RTD) and actual system demand</p> <p>e. must run unit (MRU) generation prices</p> <p>f. substitute prices used for settlement of WESM transactions in trading intervals when there are pricing errors</p>	<p>4.4 <u>4.3</u>. Information not considered as confidential</p> <p>4.4.1 <u>4.3.1</u>. The following information are <u>shall not be considered</u> confidential:</p> <p>a. <u>for real-time dispatch and market projections:</u></p> <p><u>i. nodal/regional energy dispatch prices, zonal energy prices, and reserve prices and (DAP, WAP, RTD and RTX) for each reserve category in each region</u></p> <p><u>ii. reserve requirements</u></p> <p><u>iii. load forecasts</u></p> <p>b. nodal administered prices, except if otherwise provided for in the WESM Rules and its amendments, regulation, market manual including this Manual or regulatory issuance or decision</p> <p>c. reserve requirements (WAP, DAP, RTD)</p> <p>d. load forecast (WAP, DAP, RTD) and actual system demand;</p>	<ul style="list-style-type: none"> • To be consistent with the 5-minute dispatch interval and hourly settlements based on 5-minute final nodal energy dispatch prices and reserve dispatch prices. Note that final nodal energy dispatch prices already includes substitute prices (AP, PSM, SEC)

Title	Section	Provision	Proposed Amendment	Rationale
		<p>g. net settlement surplus or deficit allocation³</p> <p>h. participant registration data and changes thereto, specifically, the:</p> <ul style="list-style-type: none"> • maximum generation capacity (Pmax) • minimum generation stable loading (Pmin) • generator ramp up and ramp down rates • customer peak and off-peak loads • other information that are generally and publicly available from any other source <p>This list is a non-exhaustive list.</p>	<p><u>c. final nodal energy dispatch prices and reserve dispatch prices used for settlements</u></p> <p>e. must run unit (MRU) generation prices</p> <p>f. substitute prices used for settlement of WESM transactions in trading intervals when there are pricing errors</p> <p>g. <u>d. net settlement surplus or deficit allocation</u>³</p> <p>h. e. participant registration data and changes thereto, specifically, the:</p> <ul style="list-style-type: none"> ▪ <u>i.</u> maximum generation capacity (Pmax) ▪ <u>ii.</u> minimum generation stable loading (Pmin) ▪ <u>iii.</u> generator ramp up and ramp down rates ▪ <u>iv.</u> customer peak and off-peak loads <p><u>f. Information on (i) settlement amounts unpaid by the end of each month, and (ii) the specific WESM member that failed to pay the settlement amounts shall be disclosed by the Market Operator.</u></p> <p><u>g. Information on real-time system condition contained in advisories and notices received by the Market Operator from the System Operator.</u></p>	<ul style="list-style-type: none"> • To remove 'MRU generation prices' since MRUs are already price-takers • To remove PSM substitute prices since they are already included in proposed item (c) • To delete reference for net settlement surplus (NSS) (footnote) since this will be replaced by the new ERC issuance on the proposed Price Determination Methodology (which already includes the NSS) • To add information on unpaid settlement amounts per DOE DC 2013-07-0018 issued on 26 July 2013 • To include information on real-time system condition in accordance with WESM Rules Clause 3.11.1.1 (h) as revised under DOE DC 2016-10-0014

Title	Section	Provision	Proposed Amendment	Rationale
			<p><u>h. market network model technical data and parameters;</u></p> <p><u>i. over-riding constraints, contingency limits and outage schedules; and</u></p> <p><u>j. other information that are generally and publicly available from any other source</u></p> <p>This list is a non-exhaustive list.</p>	<ul style="list-style-type: none"> To add market network model technical data and parameters as non-confidential information as recommended under the WESM Design Study and consistent with WESM Rules Clause 3.11.1.1 (h). See details in proposed Appendix B. To include over-riding constraints, contingency limits and outage schedules among non-confidential information for more transparency and immediate reference of Trading Participants. Renumbering
		4.4.2. Information otherwise classified as confidential will lose its confidentiality status under the following circumstances: xxx	4.4.2 4.3.2 . Information otherwise classified as confidential will lose its confidentiality status under the following circumstances: xxx	Renumbering
		4.5. Expiration of confidentiality The following information will lose their confidentiality classification after the expiration of the following periods:	4.5 4.4 . Expiration of confidentiality The following information will will shall lose their confidentiality classification after the expiration of the following periods:	<ul style="list-style-type: none"> Renumbering

Title	Section	Provision		Proposed Amendment		Rationale
		Information	Expiry Period	Information	Expiry Period	<ul style="list-style-type: none"> To be consistent with the 5-minute dispatch interval and proposed section 3.3 above MRU schedules are already reflected in the energy schedules To exclude contingency limits and outage schedules data submitted by the System Operator to the Market Operator from among confidential information for transparency and immediate reference of Trading Participants. These information are proposed to be classified as public. Clerical revision, for clarity
		Bids and offers identifiable to a <i>Trading Participants</i> , including any and all information contained in the bids and offers submissions of the relevant market participant	seven (7) days after the relevant trading day	Bids and offers identifiable to a <i>Trading Participants</i> , including any and all information contained in the bids and offers submissions of the relevant <i>Market Participant</i>	seven (7) days after the relevant trading day	
		Hourly energy or reserve dispatch schedules and dispatch instructions identifiable to a <i>Trading Participant</i> , and the dispatch schedules of must run units	One (1) day after the relevant trading day	Hourly Energy or and reserve dispatch projections and schedules and dispatch instructions identifiable to a <i>Trading Participant</i> , and the dispatch schedules of must run units	One (1) day after the relevant trading day	
		Security limits and contingency limitations imposed by the System Operator and which are submitted to the Market Operator, including but not limited to instructions issued to generating units designated as must run units, and to system advisories	One (1) day after the relevant trading day	Security limits and contingency limitations imposed by the System Operator and which are submitted to the Market Operator, including but not limited to instructions issued to generating units designated as must run units, and to system advisories	One (1) day after the relevant trading day	
		Projected output provided by <i>Trading Participants</i> in respect of their must dispatch generating units or priority dispatch generating	One (1) day after the relevant trading day	<u>Projected output for must dispatch generating units or priority dispatch generating units that are identifiable to a provided by Trading Participants including any and all information</u>	One (1) day after the relevant trading day	

Title	Section	Provision		Proposed Amendment		Rationale
		units that are identifiable to that <i>Trading Participant</i>		contained in <i>projected output</i> submissions of the relevant <i>Trading Participant</i>		
		The nomination of loading levels for non-scheduled generating units identifiable to a <i>Trading Participant</i> .	One (1) day after the relevant trading day	in respect of their must dispatch generating units or priority dispatch generating units that are identifiable to that <i>Trading Participant</i>		
		From time to time, the PEM Board may declare certain confidential information as having lost its confidentiality status.		The nomination of <i>loading levels</i> for <i>non-scheduled generating units</i> identifiable to a <i>Trading Participant</i> .	One (1) day after the relevant trading day	
				From time to time, the <i>PEM Board</i> may declare certain confidential information as having lost its confidentiality status.		
		5.1. Obligations to ensure confidentiality		5.1. Obligations to ensure confidentiality		• Renumbering • Clerical revisions
		The Market Operator or any <i>WESM member xxx</i>		The <i>Market Operator</i> or any <i>WESM member xxx</i>		
		The Market Operator, the <i>WESM members xxx</i>		The <i>Market Operator</i> , the <i>WESM members xxx</i>		
		5.2. Breach of confidentiality xxx		5.2. Breach of confidentiality xxx		
		5.3 Permitted disclosures/exceptions to confidentiality 5.3.1 xxx 5.3.2 xxx		5.3 Permitted disclosures/exceptions to confidentiality 5.3.1 xxx 5.3.2 xxx		

Title	Section	Provision	Proposed Amendment	Rationale
		<p>5.3.3 Information on (i) settlement amounts unpaid by the end of each month, and (ii) the specific <i>WESM member</i> that failed to pay the settlement amounts shall be disclosed by the Market Operator.</p> <p>5.3.4 xxx</p> <p>5.4 Protection of permitted disclosures</p> <p>5.4.1 xxx</p> <p>5.4.2 xxx</p> <p>5.5. Limitations on access to confidential information</p> <p>The members of the PEM Board, its officers and Committees, who are officers, directors or employees of any <i>WESM member</i> will have no access confidential information that are classified as commercially sensitive information. The determination as to whether any specific information is commercially sensitive will be made by the Market Operator in accordance with this Manual and the WESM Rules.</p>	<p>5.3.3 Information on (i) settlement amounts unpaid by the end of each month, and (ii) the specific <i>WESM member</i> that failed to pay the settlement amounts shall be disclosed by the Market Operator.</p> <p>5.3.4 5.3.3 xxx</p> <p>5.4 Protection of permitted disclosures</p> <p>5.4.1 xxx</p> <p>5.4.2 xxx</p> <p>5.5. Limitations on access to confidential information</p> <p>The members of the <i>PEM Board</i>, its officers and Committees, who are officers, directors or employees of any <i>WESM member</i> will shall have no access to confidential information that are classified as commercially sensitive information. The determination as to whether any specific information is commercially sensitive will be made by the <i>Market Operator</i> in accordance with Section 3.2 of this Manual and the WESM Rules.</p>	<ul style="list-style-type: none"> To delete provision since information on unpaid settlement amounts are made public per DOE DC 2013-07-0018 issued on 26 July 2013
		<p>The Market Information Catalogue lists the market information in the possession of the Market Operator and indicates for each type of information the means of disclosure and the permitted recipient.</p>	<p>6.1. Background</p> <p>The Market Information Catalogue lists the market information in the possession of the <i>Market Operator</i> and indicates for each type of information the means of disclosure and the permitted recipient.</p>	<ul style="list-style-type: none"> Renumbering

Title	Section	Provision	Proposed Amendment	Rationale
		<p>6.1. Categories of market information</p> <p>Market information in the possession of the Market Operator are classified as:</p> <p>a. market information input data are information furnished to or received by the Market Operator from <i>WESM members</i>, service providers and other parties and entities which are used in the performance of various market processes including but not limited to market projections, pricing, scheduling and settlements.</p> <p>b. market information output data are information produced by or provided by the Market Operator resulting from the operations of the various market processes.</p> <p>6.2. Means of disclosure xxx</p>	<p>6.1- 6.2 Categories of market information</p> <p>Market information in the possession of the <i>Market Operator</i> are classified as:</p> <p>a. market information input data are information furnished to or received by the <i>Market Operator</i> from <i>WESM members</i>, service providers and other parties and entities which are used in the performance of various market processes including but not limited to market projections, pricing, scheduling and settlements.</p> <p>b. market information output data are information produced by or provided by the <i>Market Operator</i> resulting from the operations of the various market processes.</p> <p><u>c. Other market data are information received and published by the Market Operator from service providers and other parties.</u></p> <p>6.2. 6.3 Means of disclosure</p> <p>5.3.1 6.3.1 Market information will shall be made available by the <i>Market Operator</i> through any of the following means:</p> <p>xxx</p>	<ul style="list-style-type: none"> To provide additional classification for market information that are published by the Market Operator that are not from any market process

Title	Section	Provision	Proposed Amendment	Rationale
		<p>6.3. Classification of Disclosure of Market Information</p> <p>Classification or levels of disclosure of market information are classified as follows:</p> <p>6.3.1. Strictly confidential information is confidential information which is not covered by the succeeding paragraphs or have not lost its confidentiality status pursuant to Section 4.4.2 of this Manual, relevant provisions of the WESM Rules and other relevant issuances. This information shall only be disclosed by the Market Operator to the data owner or under the exceptions provided for in WESM Rules clause 5.3.2 and this Manual.</p> <p>6.3.2 xxx</p> <p>6.3.3. Confidential information with permitted disclosure is confidential information but is permitted to be disclosed to qualified recipients. This information may only be disclosed to the data owner or qualified recipients pursuant to and under the conditions provided for in WESM Rules 5.3.2, Section 5 of this Manual and other relevant issuances that permits its disclosure. This information retains its confidentiality notwithstanding its disclosure to qualified recipients and the recipients are obliged to maintain confidentiality pursuant to the conditions set forth in Section 5 of this Manual.</p> <p>6.3.4 xxx</p>	<p>6.3 6.4. Classification of Disclosure of Market Information</p> <p>Classification or levels of disclosure of market information are classified as follows:</p> <p>6.3.1 a. Strictly confidential information is confidential information which is not covered by the succeeding paragraphs or have not lost its confidentiality status pursuant to Section 4.4.2 of this <i>Market Manual</i>, relevant provisions of the <i>WESM Rules</i> and other relevant issuances. This information shall only be disclosed by the <i>Market Operator</i> to the data owner or under the exceptions provided for in <i>WESM Rules</i> clause 5.3.2 and this <i>Market Manual</i>.</p> <p>6.3.2 b. xxx</p> <p>6.3.3 c. Confidential information with permitted disclosure is confidential information but is permitted to be disclosed to qualified recipients. This information may only be disclosed to the data owner or qualified recipients pursuant to and under the conditions provided for in <i>WESM Rules</i> Clause 5.3.2, Section 5 of this <i>Market Manual</i> and other relevant issuances that permits its disclosure. This information retains its confidentiality notwithstanding its disclosure to qualified recipients and the recipients are obliged to maintain confidentiality pursuant to the conditions set forth in Section 5 of this <i>Market Manual</i>.</p>	<ul style="list-style-type: none"> • Renumbering • Clerical revisions

Title	Section	Provision	Proposed Amendment	Rationale
			6.3.4 d. xxx	
		<p>6.4. Updating of the market information catalogue</p> <p>a. Updates by the Market Operator</p> <p>The Market Operator will review and update the market information catalogue annually or as may be necessary. The updated catalogue will be submitted for review and approval by the Rules Change Committee and the PEM Board.</p> <p>b. Requests for updates or revisions by the <i>WESM members</i> and other parties</p> <p>A <i>WESM member</i> or any interested party may request that certain information be included in or excluded from the catalogue or that the level of access to any information be reclassified. Requests will be submitted to the Market Operator which will review the proposal and include the same for review and approval either separately or as part of its regular updates of the catalogue.</p>	<p>6.4 6.5. Updating of the market information catalogue</p> <p>a 6.5.1. Updates by the Market Operator</p> <p>The <i>Market Operator</i> will shall review and update the market information catalogue annually or as may be necessary. The updated catalogue will be submitted for review and approval by the Rules Change Committee and the PEM Board.</p> <p>b 6.5.2. Requests for updates or revisions by the <i>WESM members</i> and other parties</p> <p>A <i>WESM member</i> or any interested party may request that certain information be included in or excluded from the catalogue or that the level of access to any information be reclassified. Requests will shall be submitted to the <i>Market Operator</i> which will shall review the proposal and include the same for review and approval either separately or as part of its regular updates of the catalogue.</p>	<ul style="list-style-type: none"> • To delete the sentence since amendments of this Market Manual is already provided in Section 6, as revised. • Renumbering
Amendments	7	Any amendments to this Manual shall be approved by the DOE, following the procedures for changes Market Manual set in the WESM Rules and in the relevant Market Manual.	Any amendments to this <i>Market Manual</i> shall be approved by the DOE, following the procedures for changes Market Manual set in accordance with Chapter 8 of the WESM Rules and in the relevant corresponding Market Manual on rules change process.	Revisions for clarity

Title	Section	Provision	Proposed Amendment	Rationale
Appendices	9	SECTION 9 APPENDICES Market Information Catalogue	SECTION 9 APPENDICES <u>Appendix A</u> Market Information Catalogue <u>Appendix B Non-Exhaustive List of Information to be Published on the Market Network Model Technical Data and Parameters</u> (see details below)	To provide additional appendix, for clarity, on the Market Network Model technical data and parameters to be published
Global amendment (Clerical)		manual	<u>market</u> manual	For consistency

APPENDIX A. MARKET INFORMATION CATALOGUE

Market Information			Information Access				Rationale
Category	Specific Information	Information/ Data Source	Classification	Recipient	Means of Provision	Publication Timeline	
INPUT DATA							
Rules and regulatory information	Structure and Level of Market Fees	Market Operator	Public	Public	WESM Website <u>market information website</u> Electronic or printed copies on request - Other means as required by the ERC	Upon approval by the ERC	<ul style="list-style-type: none">• To used defined term• To provide that requests will be directed to the published information in the public website
	Price Determination Methodology and Administered Price Determination Methodology and their <u>its</u> revisions, including <u>the</u> formulation of <i>Market Dispatch Optimization Model</i>	Market Operator	Public	Public	WESM Website <u>market information website</u> Electronic or printed copies on request	Upon approval by the ERC	<ul style="list-style-type: none">• To delete APDM since it is already merged in the PDM• To used defined term• To provided that requests will be directed to the published information in the public website
Market Network Model (MNM) and related information	Market Network Model MNM Bus-Oriented Single Line Diagram	Market Operator	Public	Public	WESM Website <u>market information website</u> (MNM Documentation) Electronic or printed copies on request	N/A Updated as necessary	<ul style="list-style-type: none">• To use defined term• To provide that requests will be directed to the published information in the public website
	Registry of market trading nodes	Market Operator	Public	Public			
	List of customer pricing zones (CPZ)	Market Operator	Public	Public			
	Reserve cost recovery zones	Market Operator	Public	Public			

Market Information			Information Access				Rationale
Category	Specific Information	Information/ Data Source	Classification	Recipient	Means of Provision	Publication Timeline	
	MMS Market Network Model MNM Technical Data/ and Parameters ¹	Market Operator	Confidential Public	Data owner and exceptions under WESM Rules 5.3.2. Public	Electronic or printed copies on request market information website		<ul style="list-style-type: none"> Please see proposed Appendix B. In accordance with WESM Rule Clause 3.11.1.1 (h) as revised under DOE DC 2016-10-0014
Registration and Market Participant Data	Registration Lists (e.g. list of participants/ members, applicants and former members) and new metering installation	Market Operator	Public	Public	WESM Website market information website Electronic or printed copies on request	Updated as necessary	<ul style="list-style-type: none"> To align with Section 5.5 of the WESM Metering Manual Issue 10 To use defined term To imply that requests will be directed to the published information in the public website
	Generator Pmax, Pmin, Ramp Up and Ramp Down Rates	Market Trading Participant	Public	Public	<ul style="list-style-type: none"> market information website Electronic or printed 	Updated as necessary	<ul style="list-style-type: none"> To provide information on the generating assets in the WESM For clarity Electronic copies for easier and faster processing of requests
	Customer Peak and Off-peak Demand	Market Trading Participant	Public	Public	<ul style="list-style-type: none"> Electronic or printed copies on request 	Updated as necessary	
	Prudential security information (i.e. trading limits, net exposure, prudential security deposit form and amount)	Market Trading Participant / Market Operator	Confidential	Data owner and exceptions under WESM Rules 5.3.2.	<ul style="list-style-type: none"> Electronic or printed copies on request 	N/A	

¹ Please see Appendix B for the non-exhaustive list of information to be published for the Market Network Model Technical Data and Parameters

Market Information			Information Access				Rationale
Category	Specific Information	Information/ Data Source	Classification	Recipient	Means of Provision	Publication Timeline	
Energy Forecast and Reserve Information	<u>Real-time dispatch</u> , Hour-Ahead, Day-Ahead and Week-Ahead Demand Forecast and Reserve requirement	Market Operator/ System Operator	Public	Market Trading <u>Participants</u> , DOE, ERC, PEMC	- <u>Market Management System Market Participant Interface</u> (MMS MPI)	Daily _____ or <u>Immediately</u> after relevant market run	<ul style="list-style-type: none"> To be consistent with the 5-minute dispatch and HAP (hour-ahead) projection For clarity To use defined terms
	VRE Aggregated Generation Forecast	System Operator	Public	Public	- WESM _____ Website <u>market information website</u>	<u>Within the next trading day</u> Daily or _____ after relevant market run	<ul style="list-style-type: none"> For clarity To use defined terms
	<u>Initial Loss Percentage</u>	<u>Market Operator</u>	<u>Public</u>	<u>Public</u>	- <u>market information website</u>	<u>Updated as necessary</u>	To align with Section 6.4.2 of the WESM Load Forecasting Manual, as approved by the RCC on 11 April 2017 (RCC-RESO-17-05).
Generation Offers and Demand Bids	Energy and reserve offers and demand bids including all information contained in the submitted offers	<u>Market Trading Participants</u>	Confidential with expiration (Confidentiality expires after seven days)	Prior to expiration of confidentiality: data owner and exceptions under WESM Rules 5.3.2.	- Electronic or _____ printed copies on request	N/A	Electronic copies for easier and faster processing of requests
				Public after expiration	- WESM _____ Website <u>market information website</u>	Updated Daily (after expiration of confidentiality)	To use defined terms

Market Information			Information Access				Rationale
Category	Specific Information	Information/ Data Source	Classification	Recipient	Means of Provision	Publication Timeline	
	Projected output of must dispatch and priority dispatch generating units	Market Trading Participants	Confidential with expiration (Confidentiality expires after a day)	Prior to expiration of confidentiality: data owner and exceptions under WESM Rules 5.3.2.	Electronic or printed copies on request	N/A	<ul style="list-style-type: none"> To use defined terms Electronic copies for easier and faster processing of requests
				Public after expiration	- WESM Website market information website	Updated Daily (after expiration of confidentiality)	
	Nominated loading levels of non-scheduled generating units	Market Trading Participants	Confidential with expiration (Confidentiality expires after a day)	Prior to expiration of confidentiality: data owner and exceptions under WESM Rules 5.3.2.	Electronic or printed copies on request	N/A	<ul style="list-style-type: none"> To use defined terms Electronic copies for easier and faster processing of requests
				Public after expiration	- WESM Website market information website	Updated Daily (after expiration of confidentiality)	
Transmission System Information provided by SO the System Operator to the Market Operator	Generator and Line Outages, Security Limits Over-riding Constraints , and Contingency Lists Limits and outage schedules as submitted by the System Operator to through the MMS	System Operator	Confidential with Permitted Disclosure Public	WESM Trading Participants and exceptions under WESM Rules 5.3.2. Public	- WESM Website market information website	Updated Daily After the trading day	<ul style="list-style-type: none"> To be consistent with proposed amendments in Section 4 above For clarity To use defined terms
	Real-time system condition or System Operator Advisory on Transmission System conditions, including but	System Operator	Confidential with Permitted Disclosure (During trading day)	Trading Participants and exceptions under WESM Rules 5.3.2.	- MMS Advisories/MMS MPI - E-mail	Published near real-time or as provided by the System Operator	Moved to <i>Other Reports</i> (below)

Market Information			Information Access				Rationale
Category	Specific Information	Information/ Data Source	Classification	Recipient	Means of Provision	Publication Timeline	
	not limited to, adverse system condition, outages, load shedding, congestions, and actual system demand based on system snapshot data, etc as provided by the System Operator		Confidential with expiration (Confidentiality expires after trading day)	Public after expiration	— Daily Market Operations Report	Updated Daily or upon availability of verified/complete information	
	<u>Status of generating units (refers to generator snapshot data)</u>	<u>System Operator</u>	<u>Public</u>	<u>Public</u>	- <u>market information website</u>	<u>After the trading day</u>	To align with WESM Rules Clause 3.11.1.1 (h) per DOE DC2016-10-0014
	Must Run Unit Report as Prepared/Finalized by SO (i.e. generation unit, quantity and reason for designation)	System Operator	Confidential with expiration (Confidentiality expires after seven days)	Public after expiration of Confidentiality	— WESM Website — Electronic copies on request	Updated Weekly	Due to the shortening of the dispatch interval and the proposed dispatch conformance standards, the contents of the MRU report will already be provided under the Dispatch Deviation Report (See <i>Others</i> category below)
Revenue Meter Data	Raw or adjusted meter data	Metering Services Provider	Confidential with permitted disclosure	Data owner, other permitted recipients (subject to sec.5.3.2 4.3.2 of this manual) and exceptions under WESM Rules <u>Clause</u> 5.3.2.	- Electronic copies on request	N/A	<ul style="list-style-type: none"> • To revise reference section • All confidential information are subject to the exceptions under this manual and the WESM Rules

Market Information			Information Access				Rationale
Category	Specific Information	Information/ Data Source	Classification	Recipient	Means of Provision	Publication Timeline	
OUTPUT DATA							
Energy and Reserve Schedules	<u>Week-ahead (WAP), day-ahead (DAP) and hour-ahead projections (HAP), and real-time dispatch schedules</u> WAP,DAP, RTD and RTX	Market Operator	Confidential with expiration (Confidentiality expires after trading day)	Market Trading Participants, DOE, ERC, PEMC	- MMS MPI (WAP,DAP, <u>HAP and real-time dispatch</u>) RTD & RTX.)	In accordance with the WESM Timetable	<ul style="list-style-type: none"> • To be consistent with the 5-minute dispatch and HAP (hour-ahead) projection • For clarity • To use defined terms
				Public after expiration of confidentiality	- WESM Website <u>market information website</u> (real-time <u>dispatch</u> schedules only) - Electronic copies on request	Updated Daily (<u>after expiration of confidentiality</u>)	
Energy and Reserve Prices	<u>WAP, DAP, HAP, and real-time dispatch prices</u> WAP,DAP,RTD and RTX Prices	Market Operator	Public	Market Trading Participants, DOE, ERC, PEMC	- MMS MPI (WAP,DAP, <u>HAP and real-time dispatch</u>) RTD & RTX.)	In accordance with the WESM Timetable	
				Public	- WESM Website <u>market information website</u> - Electronic copies on request	Updated Daily <u>Within the next trading day</u>	
	Ex-Ante and Ex-Post Load Weighted Average Price (LWAP) and <u>Generator Weighted Average Price (GWAP)</u>	Market Operator	Public	Public	- WESM Website <u>market information website</u> - Electronic copies on request	<u>Within the next hour after the relevant dispatch interval</u> Updated Daily	<ul style="list-style-type: none"> • To add GWAP consistent with current publication • To be consistent with the 5-minute dispatch and HAP (hour-ahead) projection, enhancement of WESM operations
	Administered prices	Market Operator	Public	Public	- WESM Website <u>market information website</u> - Electronic copies on request	Monthly, after issuance of final settlement <u>Within the next trading day</u>	

Market Information			Information Access				Rationale
Category	Specific Information	Information/ Data Source	Classification	Recipient	Means of Provision	Publication Timeline	
	Marginal plants and market clearing prices	Market Operator	Confidential with expiration (Confidentiality expires after trading day)	Public after expiration of confidentiality	- WESM Website <u>market information website</u> - Electronic copies on request	Updated Daily <u>(after expiration of confidentiality)</u>	<p>through the implementation of automatic pricing re-runs, and use of snapshot quantities in determining administered price</p> <ul style="list-style-type: none"> To facilitate the publication of prices near real-time or right after the trading day For clarity
	Substitute prices for <u>cases of nodal price separation</u> due to PSM for <u>Congestion²</u> related pricing errors	Market Operator	Public	Market Trading Participants, DOE, ERC, PEMC	- MMS MPI - Electronic copies on request	<u>Within the next trading day</u> Near real-time	
				Public	- WESM Website <u>market information website</u> (Market Results Page) - Electronic copies on request	Updated Daily <u>Within the next trading day</u>	
	<u>Final Nodal Energy Dispatch Prices</u>	<u>Market Operator</u>	<u>Public</u>	<u>Public</u>	- <u>Market information website</u>	<u>Prior the issuance of the final settlement statement</u>	
<u>Automatic Pricing Re-runs</u>	<u>Constraints violated and the corresponding non-zero constraint violation variable values</u>	<u>Market Operator</u>	<u>Public</u>	<u>Public</u>	- <u>market information website</u> (Market Results Page) - <u>Electronic copies on request</u>	<u>Within the next trading day</u>	
Pricing Errors	Pricing error notice (PEN)	Market Operator	Public	Market Participants, DOE, ERC, PEMC	- MMS MPI - E-mail	As Applicable <u>Within two (2) working days</u>	Per Section 6.2 of the CVC-PR Manual Issue 5 as approved by DOE per DC 2017-03-0002

² Price Determination Methodology Manual Section 6

Market Information			Information Access				Rationale
Category	Specific Information	Information/ Data Source	Classification	Recipient	Means of Provision	Publication Timeline	
				Public	- <u>market information website</u> Electronic copies on request	after the trading day	
	Market re-runs results (i.e. resulting market re-run prices)	Market Operator	Public	Public	- WESM Website <u>market information website</u> Electronic copies on request	In accordance with the timetable under the WESM Manual on Constraint Violation Coefficient and Pricing Re-run	
Settlements	Settlement amounts, including energy, reserve amounts identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i>	Market Operator	Confidential	Data owner and exceptions under WESM Rules <u>Clause 5.3.2.</u>	- Electronic Copies	N/A	
	Unpaid settlement amounts as of month-end, specific <i>WESM member</i> that failed to pay settlement amounts as of month-end	Market Operator	Confidential <u>Public</u>	Data owner and exceptions under WESM Rules <u>5.3.2(j)</u> <u>Public</u>	- Electronic <u>market information website</u> copies	Within fifteen (15) business days after the end of each month <u>Within the month following the end of the billing period</u>	To align with DOE DC 2013-07-0018 issued on 26 July 2013, which requires the Market Operator to disclose the settlement amount unpaid by the end of the month and the specific <i>WESM member</i> that failed to pay the settlement amounts
	Quantities used for settlement (i.e. settlement-ready meter data, spot and bilateral	Market Operator	Confidential	Data owner and exceptions under WESM	- Electronic Copies	N/A	

Market Information			Information Access				Rationale
Category	Specific Information	Information/ Data Source	Classification	Recipient	Means of Provision	Publication Timeline	
	contract quantities declared to the Market Operator) identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i>			Rules <u>Clause</u> 5.3.2.			
	Line rental trading amount and other line rental information identifiable to a specific <i>Trading Participant</i> or <i>WESM member</i>	Market Operator	Confidential	Data owner and exceptions under WESM Rules 5.3.2.	- Electronic Copies	N/A	
	Net settlement surplus and deficit levels and allocations	Market Operator	Public	Public	- WESM Website <u>market information website</u>	Monthly, after the issuance of final settlement	To use defined term
	<u>Underlying factors affecting NSS</u>	<u>Market Operator</u>	<u>Public</u>	<u>Public</u>	- <u>market information website</u>	<u>Annual</u>	To align with WESM Rules <u>Clause</u> 3.13.12.3 as approved by DOE per DC 2016-10-0014
Market Operator Performance	Market Operator Performance Indicators and Performance Report	Market Operator	Public	Public	- WESM Website <u>market information website</u>	Annual	To use defined term
Metering Service Provider (MSP) Performance	<u>Wholesale and Retail MSP Performance Reports</u>	<u>Market Operator</u>	<u>Public</u>	<u>Public</u>	- <u>market information website</u>	<u>In accordance with the timetable under the applicable Metering Manuals</u>	To align with Section 10.7.1 of the WESM Metering Manual Issue 10
OTHERS							

Market Information			Information Access				Rationale
Category	Specific Information	Information/ Data Source	Classification	Recipient	Means of Provision	Publication Timeline	
<u>Transmissi on System Information</u>	Real-time system conditions or System Operator Advisory <u>advisories</u> on Transmission System conditions, including but not limited to, adverse system condition, outages, load shedding, congestions, and actual system demand based on system snapshot data, etc as provided by the System Operator	System Operator	Confidential with Permitted Disclosure (During trading day) <u>Public</u>	WESM Trading Participants and exceptions under WESM Rules 5.3.2: <u>WESM members</u>	- MMS Advisories/MMS MPI - E-mail	Published near real-time or as provided by the System Operator	<ul style="list-style-type: none"> To relocate information from <i>Input Data</i> since these are information/ data that are published by the Market Operator as provided by the System Operator For clarification since Market Operator reports do not only contain information from System Operator advisories
	<u>Dispatch Deviation Report by the System Operator (in CSV) and Daily Operations Report</u>	<u>System Operator</u>	Confidential with expiration (Confidentiality expires after trading day)	Public after expiration	- Daily Market Operations Report	Updated Daily or upon availability of verified/complete information	To be consistent with publication of Post-dispatch reports under the Dispatch Protocol Manual
			<u>Public</u>	<u>Public</u>	- <u>market information website</u>	<u>Within the next trading day</u>	

Title	Section	Provision	Proposed Amendment	Rationale
		NEW	<u>Appendix B. List of Information to be Published on the Market Network Model Technical Data and Parameters</u> <u>The following technical data and parameters shall be published in relation to the Market Network Model.</u>	To provide details on the Market Network Model information to be published

Title	Section	Provision	Proposed Amendment	Rationale										
			<table><tr><th>Equipment</th><th>Technical Data/Parameters Available</th></tr><tr><td>Transformer</td><td>Rating</td></tr><tr><td>Lines</td><td>Rating</td></tr><tr><td>Generators</td><td>Pmin/Pmax</td></tr><tr><td>Other Shunt and Series Devices (i.e. inductors, capacitors, and voltage regulators)</td><td>Rating</td></tr></table> <p>The above information shall be prepared in a PSS/E "raw" data file format, which includes how each equipment is connected among each other in the power system as represented in the <i>Market Network Model</i>.</p>	Equipment	Technical Data/Parameters Available	Transformer	Rating	Lines	Rating	Generators	Pmin/Pmax	Other Shunt and Series Devices (i.e. inductors, capacitors, and voltage regulators)	Rating	
Equipment	Technical Data/Parameters Available													
Transformer	Rating													
Lines	Rating													
Generators	Pmin/Pmax													
Other Shunt and Series Devices (i.e. inductors, capacitors, and voltage regulators)	Rating													