



## MEETING MINUTES

Subject/Purpose : 188<sup>th</sup> Rules Change Committee (Regular) Meeting  
 Date & Time : 17 December 2021, 09:00 AM  
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### ATTENDEES

	Name	Designation/Position	Department/ Company
1	Allan C. Nerves	Chairperson, Independent	RCC
2	Jesusito G. Morallos	Member, Independent	RCC
3	Dixie Anthony R. Banzon	Member, Generation Sector	RCC
4	Cherry A. Javier	Member, Generation Sector	RCC
5	Carlito C. Claudio	Member, Generation Sector	RCC
6	Jessie Victorio	Member (Alternate), Generation Sector	RCC
7	Michelle S. Tuazon	Member (Alternate), Generation Sector	RCC
8	Ryan S. Morales	Member, Distribution Sector	RCC
9	Nelson M. Dela Cruz	Member, Distribution Sector	RCC
10	Lorreto H. Rivera	Member, Supply Sector	RCC
11	Ambrocio R. Rosales	Member, System Operator	RCC
12	Isidro E. Cacho, Jr.	Member, Market Operator	RCC
13	Karen A. Varquez	RCC Secretariat	PEMC
14	Divine Gayle C. Cruz	RCC Secretariat	PEMC
15	Dianne L. De Guzman	RCC Secretariat	PEMC
16	Kathleen R. Estigoy	RCC Secretariat	PEMC
17	Luningning G. Baltazar	Observer	DOE
18	Melanie Papa	Observer	DOE
19	Marvin Jay D. Masanda	Observer	DOE
20	Lex J. Magtalas	Observer	DOE
21	Kevin John Y. Dela Cuesta	TC Secretariat	PEMC
22	Clares Loren C. Jalocon	Head, CPC	PEMC
23	Sheryll M. Dy	Proponent	IEMOP
24	Edward I. Olmedo	Proponent	IEMOP
25	Karen Anne Siruma	Proponent	IEMOP
26	Ryan Jasper M. Villadiego	Proponent	NGCP
27	Homernico Mari B. Palma	Proponent	NGCP
28	Josephine S. Quiaem	Proponent	NGCP
29	Leo E. Bugarin	Proponent	NGCP
30	Ermelindo R. Bugaoisan Jr.	Proponent	NGCP





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Agenda	Agreements / Action Taken / Action Required
I. Call to Order	<ul style="list-style-type: none"> <li>The meeting was conducted via Microsoft Teams and was called to order at 09:05 AM.</li> <li>The meeting was presided by Dr. Allan C. Nerves (Chairperson/Independent).</li> </ul>
II. Determination of Quorum	There were 11 principal, and 2 alternate members present during the meeting.
III. Adoption of Agenda	<p><u>Presenter:</u> Ms. Divine Gayle C Cruz (Secretariat)</p> <p><u>Action Requested:</u> For approval</p> <p><u>Proceedings:</u> Ms. Divine Gayle C Cruz (Secretariat) informed the body of the following changes made with the provisional agenda:</p> <ul style="list-style-type: none"> <li>Addition of the Proposed Amendments to the WESM Manuals on System Security and Reliability Guidelines (SSRG Manual) Issue 1.0 and Dispatch Protocol Issue 16.0 under the new business; and</li> <li>Deletion of the DOE-remanded proposal regarding Proposed Amendments to the WESM Manual on Guidelines Governing the Constitution of PEM Board Committees.</li> </ul> <p>Ms. Cruz said that prior the meeting started, Ms. Kathleen R. Estigoy (Secretariat) sent through email PEMC's letter to RCC dated 15 December 2021, requesting to defer the discussion of the proposal in January 2022. Ms. Cruz further explained that PEMC will re-evaluate the proposal specifically on the composition of Technical Committee, which may need more time for further discussion.</p> <p><u>Resolution:</u> Having no further comments, Mr. Isidro E. Cacho (Market Operator) moved for the approval of the agenda and was seconded by Atty. Jesusito G. Morillos (Independent). The agenda of meeting was approved and adopted by the body, as revised.</p>
IV. Approval of Minutes of Previous Regular Meeting	<p><u>Presenter:</u> Ms. Divine Gayle C Cruz (Secretariat)</p> <p><u>Action Requested:</u> For approval</p>



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<ul style="list-style-type: none"> <li>187<sup>th</sup> Regular Meeting, 19 November 2021</li> </ul>	<p><u>Proceedings:</u> Ms. Cruz stated that the previous meeting focused on the Reserves Market proposal. No comments were received on the draft minutes earlier sent by email.</p> <p><u>Resolution:</u> Having no further comments, Mr. Carlito C. Claudio (Generation) moved for the approval of the minutes and was seconded by Ms. Lorreto H. Rivera (Supply). The RCC approved the minutes of meeting, as submitted, and agreed to affix e-signatures.</p>
V. Matters Arising from Previous Meeting	
<p>5.1. Draft RCC Resolution No. 2021-22: <i>Proposed General Amendments to the WESM Rules and WESM Manual on Constraint Violation Coefficient and Pricing Re-run regarding Under-generation and Over-generation</i></p>	<p><u>Presenter:</u> Ms. Dianne L. De Guzman (Secretariat)</p> <p><u>Action Requested:</u> For review and approval to affix e-signature, and submission to PEM Board</p> <p><u>Proceedings:</u> Ms. Cruz informed the body that the two (2) draft resolutions were deferred from the previous meetings to prioritize the GEOP and Reserve Market proposals. This item is the first of said draft resolutions.</p> <p>Ms. Dianne L. De Guzman (Secretariat) presented the draft resolution to the RCC. Highlights are as follows:</p> <ul style="list-style-type: none"> <li>Originally submitted as an urgent amendment in preparation for the implementation of Enhanced WESM Design and Operation (EWDO);</li> <li>The proposal was re-submitted as general amendment in accordance with the procedures for processing urgent amendments;</li> <li>Rationale of the proposal is to harmonize provisions on automatic pricing re-runs with the ERC directives on its decision (ERC Case No. 2017-042RC); and</li> <li>No comments were received for the proposal during the commenting period.</li> </ul> <p><u>Resolution:</u> Having no additional comments received on the draft resolution, Ms. Rivera moved for the approval of the draft resolution and endorsement of the proposal to the PEM Board, which was seconded by Mr. Ambrocio R. Rosales (System Operator). The</p>



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	RCC approved the resolution, as submitted, and agreed to affix e-signatures.
<p>5.2. Draft RCC Reso. No. 2021-23: <i>Proposed Amendments to the WESM Rules, WESM Manual and Retail Manual on Validation Timeline Adjustment in Metering and Billing</i></p>	<p><u>Presenter:</u> Ms. Dianne L. De Guzman (Secretariat)</p> <p><u>Action Requested:</u> For review and approval to affix e-signature, and submission to PEM Board</p> <p><u>Proceedings:</u>          Ms. De Guzman presented the draft resolution to the RCC. Highlights are as follows:</p> <ul style="list-style-type: none"> <li>Originally submitted last January 2021 and deferred while awaiting on DOE's response on IEMOP's request to retain "business days" for the validation timeline. DOE recognized the objective of the proposal and agreed to retain "business days".</li> <li>On Clause 5.3.3, Ms. De Guzman said that the secretariat updated the provision to reflect the DOE-approved revision under DOE DC2021-07-0021, and informed the body that the secretariat retained the RCC's approved amendment, as shown:             <p>(a) Not later than three (3) <b>business working</b> days after the end of the billing period, the <i>Metering Services Provider</i> shall submit, via File Transfer Protocol (FTP) or any secure file storage device, monthly preliminary metering data of all metering points of its associated <i>Trading Participants</i>.</p> </li> </ul> <p>However, Mr. Cacho stated that the DOE already agreed to adopt "business days". Ms. Karen Siruma (IEMOP) reiterated that during the discussion of the proposal, the general agreement was to retain "business days" which was also agreed by the DOE on their letter.</p> <p>Ms. De Guzman clarified if the intention of the DOE letter on retaining "business days" also includes the submission of meter data, which was confirmed by Ms. Siruma.</p>



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	<p>Ms. Melanie Papa (DOE) confirmed that the DOE agreed to retain “business days” thru its letter including the Clauses 5.3.3, 7.3.1, 9.4.1.3, and 9.4.1.4.</p> <p>Ms. De Guzman also asked if the following added provision under Section 5.3.3 will be adopted:</p> <p style="padding-left: 40px;">In addition, the <i>Metering Services Provider</i> shall submit a transmittal letter that includes a tabulation of all associated metering points and their corresponding total metered quantity for the billing period.</p> <p style="text-align: center;"><b><u>Non-compliances with the above requirement shall be reported by the Market Operator to the Governance Arm or the Enforcement and Compliance Office, as may be authorized by the relevant Market Manuals, subject to the established rules on enforcement proceedings and sanctions.</u></b></p> <p>There being no objections, the RCC adopted the above-mentioned provision.</p> <p><u>Resolution:</u> Having no additional comments received on the draft resolution, Ms. Cherry Javier (Generation) moved for the approval of the draft resolution and endorsement of the proposal to the PEM Board, which was seconded by Ms. Rivera. The RCC approved the resolution, as revised, and agreed to affix e-signatures.</p>
<p>5.3. Improvements to Market Resource Modelling and Monitoring</p> <p>a) PEM Board Decision on RCC Resolution No. 2021-15</p> <p>b) TC Letter</p> <p>c) IEMOP Letters/ Presentation to RCC</p>	<p><u>Presenter:</u> Ms. Divine Gayle C. Cruz (Secretariat)          Mr. Edward I. Olmedo (Proponent)</p> <p><u>Action Requested:</u> For discussion/appropriate action</p> <p><u>Material/s:</u> Annex A – Presentation material by IEMOP</p> <p><u>Proceedings:</u></p> <p>a) PEM Board Decision on RCC Resolution No. 2021-15</p> <p>As earlier relayed by email, Ms. Cruz updated the RCC on the status of the proposal. The RCC received a letter from</p>



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	<p>IEMOP about their initial clarifications in response to the deferment of the proposal by the PEM Board. It was noted that IEMOP shall provide additional clarification and submission of its assessment on the changes to the process of approximation in the market network model which were raised by the Technical Committee (TC) and National Grid Corporation of the Philippines (NGCP).</p> <p>b) TC and IEMOP Letters</p> <p>In view of the foregoing, the TC and IEMOP conducted a meeting on 09 November 2021 and IEMOP submitted a proposal to RCC on 14 December 2021. In addition, the IEMOP also updated the body in its letter that they will discuss the matter with NGCP on 15 December 2021.</p> <p>Ms. Cruz also presented the TC's letter informing the body that TC is very much willing to work with the RCC and would appreciate RCC's advice on the next steps. On the same letter, TC said that they will be glad to provide comments consistent with the RCC process.</p> <p>c) Presentation to RCC</p> <p>Mr. Edward I. Olmedo (IEMOP) confirmed the IEMOP meeting with TC on 09 November and conceptually discussed the additional amendments. He added that given that TC understood the conceptual framework, IEMOP proceeded with the submission of the revised proposal. He also updated the RCC that a meeting was conducted with the NGCP and no major concerns were raised.</p> <p>Mr. Olmedo then proceed to present the revised proposal. Highlights are the following:</p> <ul style="list-style-type: none"> <li>The WESM Rules and Market Network Model (MNM) Manual provide provisions for the Market Operator to implement simplifications and approximations.</li> </ul> <p>Ideally, the market network should be modelled up to the connection point, or co-located at the revenue meter, however, due to insufficient real-time monitoring unit to measure the consumption of loads downstream,</p>



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	<p>simplification and approximations are being implemented.</p> <ul style="list-style-type: none"> <li>Mr. Olmedo emphasized that the original proposal was to reflect the current practice. During the commenting period of the original proposal, TC commented that the simplification does not reflect the actual configuration of the system. Mr. Olmedo also shared experiences with the simplified model.</li> </ul> <div data-bbox="759 851 1458 1184"> <p><b>Experience with Simplified Model</b></p> <ul style="list-style-type: none"> <li>❑ Simplification has its disadvantages:           <ul style="list-style-type: none"> <li>• Changes in connection to the grid are not captured in the MMS' MNM</li> <li>• Continued use of Site-Specific Loss Adjustment (SSLA)</li> </ul> </li> <li>❑ Extending the model has its advantages:           <ul style="list-style-type: none"> <li>• This will reduce the need for the use of the SSLA               <ul style="list-style-type: none"> <li>✓ If real-time info and revenue meter are "co-located", Market Participants shall be settled immediately at their MQ and market price</li> <li>✓ No need to adjust MQ by adding SSLA</li> </ul> </li> <li>• Changes to the connection to the grid can be captured at any time</li> </ul> </li> </ul> </div> <ul style="list-style-type: none"> <li>Mr. Olmedo gave a background on the usage of the site-specific loss adjustment (SSLA).</li> </ul> <div data-bbox="759 1348 1458 1789"> <p><b>Using SSLA</b></p> <p>The diagram illustrates the process of using SSLA. It shows a 69 kV line connected to a real-time monitoring point (red dot). The RTD PRICE is determined at this point. The ADJUSTED MQ is calculated as MQ + SSLA. The MQ is then determined at the revenue meter (blue dot) before reaching the customer. A yellow box notes that SSLA refers to MW Losses accumulated between the Real-Time Pricing Location and the Revenue Meter.</p> </div> <p>Distance of the real-time monitoring and revenue meter is not included in the MNM, thus, adjusted Metered Quantity (MQ), which is the sum of the MQ and SSLA, is required. SSLA refers to the losses accumulated between the real-time monitoring and the revenue meter. This scenario will have an additional process on IEMOP's settlement.</p>



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	<ul style="list-style-type: none"><li>The revised proposal as shown below, and the estimated real-time date will be produced using the historical MQ.</li></ul> <div><p>Proposed Modeling Estimate Real Time Data Using Historical MQ</p><div><p>ACTUAL NETWORK CONFIGURATION</p></div><div><p>MARKET NETWORK MODEL</p></div></div> <p>Same model will be used but for cases that the revenue meter is not co-located with the real-time monitoring, estimated real time data will be used using historical MQ.</p> <ul style="list-style-type: none"><li>The proposed approach on the estimation of loads is that the MMS will project the total load for station 1 and 2 using the typical load profiles. Load profiles are in place already so there's no need for enhancement of the system.</li></ul> <div><p>Proposed Approach on Estimation of Loads</p><table><thead><tr><th>Load Name</th><th>Typical Load</th><th>Load Distribution</th></tr></thead><tbody><tr><td>LOAD A</td><td>50</td><td>0.25</td></tr><tr><td>LOAD B</td><td>20</td><td>0.15</td></tr><tr><td>LOAD C</td><td>40</td><td>0.25</td></tr><tr><td>LOAD D</td><td>30</td><td>0.35</td></tr></tbody></table></div>	Load Name	Typical Load	Load Distribution	LOAD A	50	0.25	LOAD B	20	0.15	LOAD C	40	0.25	LOAD D	30	0.35
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	<ul style="list-style-type: none"> <li>○ Introduces process of estimation of real-time data for loads (needs changes in the Load Forecasting Manual)</li> <li>○ Requires Network Service Providers to provide/inform the Market Operator with activities that will impact the representation of the real-time configuration of the MNM (needs changes in MNM Manual)</li> </ul> <p>Mr. Ryan Morales (Distribution) asked if the revised proposal will affect the ongoing discussion of Meralco on the distribution utility model, and if the proposal was approved by the TC.</p> <p>Mr. Olmedo responded that the revised proposal is consistent with the last discussion with Meralco. On the second question, he said the matter being discussed was also discussed with TC, who was amenable with the proposal even if there's a lack in data.</p> <p>Mr. Kevin John Dela Cuesta (TC Secretariat) said that the TC has no final approval of the proposal and is still waiting for RCC's request for comments.</p> <p>Dr. Nerves inquired if there's a need for the approval of TC on the proposal. Ms. Cruz answered that the inputs of the TC and NGCP will be significant. The RCC may choose to publish the revised proposal to solicit comments or to request comments from all the original commenters of the proposal.</p> <p>Mr. Cacho said that there's no need to republish the proposal for 30 working days since some portions of the original proposal were already approved by the RCC. He suggested to request comments from the original commenters instead.</p> <p>Mr. Rosales expressed his opinion that the proposal is still a temporary configuration in the absence of network data but is more acceptable compared to the previous proposal. He appreciated the proposal that it considered somehow the reflection of the looped distribution network configuration.</p>

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	<p>Mr. Dela Cuesta shared that the TC would appreciate receiving a formal response from the RCC. Dr. Nerves said that it will be for decision of the body.</p> <p>Mr. Morales requested to have a comparison of error of the two (2) methods used: 1) SSLA, and 2) estimation of loads. However, Mr. Olmedo can't share the specific file due to the non-disclosure agreement with Meralco. Still, he explained that while estimating of the loads and load profiles may have an error, the physical/technical characteristics are translated to price. The locational marginal price (LMP) is the sum of marginal cost losses and congestion. However, when using SSLA, the technical parameters in the line between the real-time monitoring unit and revenue meter are not considered in the determination in cost of losses but are rather incorporated in the metered quantity.</p> <p>Atty. Jesusito G. Morillos suggested that RCC notify or request comments from the earlier commenters of the proposal since this was an amendment of the original proposal.</p> <p>Mr. Morales opined that it matters to collect comments from the other parties considering that the original proposal was to simplify and now the proposal was to extend the market modelling.</p> <p>Mr. Carlito Claudio (Generation) asked if the minutes of IEMOP-TC meeting will also be provided aside from the presentation and proposal from IEMOP. Mr. Morales also requested to include the simulation for non-Meralco customers.</p> <p>Dr. Nerves inquired for the timeline of submitting comments in which Ms. Cruz said that the ideal time is prior to the next scheduled RCC meeting.</p> <p><u>Resolution:</u> Having no additional comments, the RCC agreed to solicit comments on IEMOP's revised proposal from the stakeholders who submitted comments to their original proposal. The RCC will provide the following additional information to the commenters:</p>



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	1. Minutes of IEMOP-TC meeting; and 2. Simulation for non-Meralco customers.
VI. New Business	
6.1. Proposed Amendments to the WESM Manuals on System Security and Reliability Guidelines (SSRG Manual) Issue 1.0 and Dispatch Protocol Issue 16.0	<p><u>Presenter/s:</u> Mr. Ryan Jaspher Villadiego (NGCP)</p> <p><u>Action Requested:</u> For publication to solicit comments</p> <p><u>Material/s:</u> Annex B – Presentation material by NGCP</p> <p><u>Proceedings:</u>            As a background, Ms. Cruz recalled that the RCC previously requested NGCP to submit proposed rules changes to the SSRG Manual relative to the IEMOP's proposal for the Implementation of Reserve Market.</p> <p>Mr. Ryan Jaspher Villadiego (NGCP) presented the subject proposal with the rationale to preserve the system security and reliability in view of the Reserve Market implementation through:</p> <ul style="list-style-type: none"> <li>○ Harmonization with the use of old Ancillary Service categories per DOE DC2021-03-009; and</li> <li>○ Harmonization with the definitions and provision of the Philippine Grid Code 2016 Edition</li> </ul> <p><u>Resolution:</u> Having no further comments, Ms. Rivera moved to approve the publication of proposal for solicitation of comments. The motion was seconded by Mr. Morales.</p>
6.2. DOE-approved Revised Market Rules and Manuals	<p><u>Presenter/s:</u> RCC Secretariat</p> <p><u>Action Requested:</u> For information</p> <p><u>Presentation Material/s:</u> Annex C – Presentation material</p> <p><u>Proceedings:</u></p> <p>a. DOE DC2021-07-0021</p> <p>Ms. De Guzman presented the approved DOE DC which covers four (4) RCC related resolutions. She informed the body that there were items to be clarified with DOE specifically on MSP Performance. Letter signed by the Chairman will be sent to the DOE requesting clarification.</p>



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	<p><b>DC2021-07-0021</b></p> <table border="1"> <tr> <td>DOE DC Title:</td><td>Adopting Further Amendments to the WESM Rules and Market Manuals on Metering for the Implementation of Enhancements to the WESM Design and Operations</td></tr> <tr> <td>Related RCC Resolution/s:</td><td>2019-06, 2019-10, 2020-01, 2020-41</td></tr> <tr> <td>Objective:</td><td> <ul style="list-style-type: none"> <li>• Clarification that PEMC shall have the responsibility to monitor the Metering Services Provider as part of its governance function.</li> <li>• Alignment of the manual with the standards set forth in PGC, PDC and issuances from DOE and ERC.</li> <li>• Enhancements on the calculation of SSIA and clarification on the appropriate location of the metering point.</li> <li>• Revision to the standards and requirements for the current transformer for revenue metering.</li> </ul> </td></tr> <tr> <td>Amended Rules/Manual:</td><td>WESM Rules and WESM Manual on Metering Services and Procedures (WM-MSP)</td></tr> <tr> <td>Effective Date:</td><td>06 November 2021</td></tr> <tr> <td>Remarks:</td><td>There are provisions that are inconsistent specifically on the MSP Performance Measures. (For clarification with DOE)</td></tr> </table> <p>b. DOE DC2021-08-0025</p> <p>Ms. Cruz refreshed the RCC that the development of the Penalty Manual did not go through the usual rules changes process. The RCC was involved during the solicitation of comments specially from the sectoral representatives by the Market Surveillance Committee (MSC).</p> <p>The Penalty Manual 1.0 is applicable to the five-minute dispatch interval market and will be effective starting 27 December 2021.</p> <p><b>DC2021-08-0025</b></p> <table border="1"> <tr> <td>DOE DC Title:</td><td>Providing Policies for the Adoption of the WESM Penalty Manual for the implementation of Enhancements to the WESM Design and Operations</td></tr> <tr> <td>Related RCC Resolution/s:</td><td>n/a</td></tr> <tr> <td>Objective:</td><td>To set out the penalty system that is applied in cases of breach of the WESM Rules and the Retail Rules and their implementing Market Manuals.</td></tr> <tr> <td>Amended Rules/Manual:</td><td>Penalty Manual</td></tr> <tr> <td>Effective Date:</td><td>23 October 2021</td></tr> <tr> <td>Remarks:</td><td>This Manual is a document of the Market Surveillance Committee (MSC) and did not go through the regular rules change process. The MSC presented the draft Manual to the RCC on 01 June 2018 (141<sup>st</sup> RCC meeting) to solicit comments.</td></tr> </table> <p>c. DOE DC2021-08-0026</p> <p>Ms. De Guzman presented the DOE DC that clarifies the roles and functions of the PEM Board, the Enforcement and Compliance Office, the Market Surveillance Committee and other WESM organizational units that are involved in the enforcement and compliance processes in the WESM. This involves the separation of MSCEM Manual into two (2): MSC and ECO Manual.</p>	DOE DC Title:	Adopting Further Amendments to the WESM Rules and Market Manuals on Metering for the Implementation of Enhancements to the WESM Design and Operations	Related RCC Resolution/s:	2019-06, 2019-10, 2020-01, 2020-41	Objective:	<ul style="list-style-type: none"> <li>• Clarification that PEMC shall have the responsibility to monitor the Metering Services Provider as part of its governance function.</li> <li>• Alignment of the manual with the standards set forth in PGC, PDC and issuances from DOE and ERC.</li> <li>• Enhancements on the calculation of SSIA and clarification on the appropriate location of the metering point.</li> <li>• Revision to the standards and requirements for the current transformer for revenue metering.</li> </ul>	Amended Rules/Manual:	WESM Rules and WESM Manual on Metering Services and Procedures (WM-MSP)	Effective Date:	06 November 2021	Remarks:	There are provisions that are inconsistent specifically on the MSP Performance Measures. (For clarification with DOE)	DOE DC Title:	Providing Policies for the Adoption of the WESM Penalty Manual for the implementation of Enhancements to the WESM Design and Operations	Related RCC Resolution/s:	n/a	Objective:	To set out the penalty system that is applied in cases of breach of the WESM Rules and the Retail Rules and their implementing Market Manuals.	Amended Rules/Manual:	Penalty Manual	Effective Date:	23 October 2021	Remarks:	This Manual is a document of the Market Surveillance Committee (MSC) and did not go through the regular rules change process. The MSC presented the draft Manual to the RCC on 01 June 2018 (141 <sup>st</sup> RCC meeting) to solicit comments.
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## MEETING MINUTES

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 Date & Time : 17 December 2021, 09:00 AM  
 Venue : Online via Microsoft Teams  
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Agenda	Agreements / Action Taken / Action Required																										
	<p><b>DC2021-08-0026</b></p> <table border="1"> <tr> <td>DOE DC Title:</td><td>Providing Policies for the Adoption of the WESM Rules and its Market Manuals for the Implementation of Enhancements to the WESM Design and Operations (Provisions for the Market Surveillance, Enforcement and Compliance)</td></tr> <tr> <td>Related RCC Resolution/s:</td><td>2018-03-06</td></tr> <tr> <td>Objective:</td><td>to clarify the roles and functions of the PEM Board, the Enforcement and Compliance Office, the Market Surveillance Committee and other WESM organizational units that are involved in the enforcement and compliance processes in the WESM</td></tr> <tr> <td>Amended Rules/Manual:</td><td> <ul style="list-style-type: none"> <li>WESM Rules</li> <li>WESM Manual on Market Surveillance, Compliance and Enforcement Market (MSCEM)</li> <li>WESM Manual on Procedures for Changes to the WESM Rules, Retail Rules and Market Manuals (RCM)</li> </ul> </td></tr> <tr> <td>Effective Date:</td><td>23 October 2021</td></tr> <tr> <td>Remarks:</td><td></td></tr> </table> <p>d. DOE DC2021-10-0033</p> <p><b>DC2021-10-0033</b></p> <table border="1"> <tr> <td>DOE DC Title:</td><td>Adopting Further Amendments to WESM Rules and Market Manual on the Procedures for Changes to the WESM Rules, Retail Rules and Market Manuals</td></tr> <tr> <td>Amended Rules/Manual:</td><td> <ul style="list-style-type: none"> <li>WESM Rules</li> <li>WESM Manual on Procedures for Changes to the WESM Rules, Retail Rules and Market Manuals (RCM)</li> </ul> </td></tr> </table> <p>e. DOE DC2021-10-0034</p> <p><b>DC2021-10-0034</b></p> <table border="1"> <tr> <td>DOE DC Title:</td><td>Repealing Section 3 of the DOE Department Circular No. DC2017-04-0006 Entitled "Adopting Further Amendments to the WESM Rules And Market Manuals"</td></tr> <tr> <td>Related RCC Resolution/s:</td><td>2020-08</td></tr> <tr> <td>Objective:</td><td>Abolition of WESM Manual on Administered Price Determination Methodology</td></tr> <tr> <td>Amended Rules/Manual:</td><td>n/a</td></tr> <tr> <td>Remarks:</td><td>Repealing Clause: Section 3 of DOE DC2017-04-0006</td></tr> </table> <p><u>Resolution:</u> The RCC noted the information provided.</p>	DOE DC Title:	Providing Policies for the Adoption of the WESM Rules and its Market Manuals for the Implementation of Enhancements to the WESM Design and Operations (Provisions for the Market Surveillance, Enforcement and Compliance)	Related RCC Resolution/s:	2018-03-06	Objective:	to clarify the roles and functions of the PEM Board, the Enforcement and Compliance Office, the Market Surveillance Committee and other WESM organizational units that are involved in the enforcement and compliance processes in the WESM	Amended Rules/Manual:	<ul style="list-style-type: none"> <li>WESM Rules</li> <li>WESM Manual on Market Surveillance, Compliance and Enforcement Market (MSCEM)</li> <li>WESM Manual on Procedures for Changes to the WESM Rules, Retail Rules and Market Manuals (RCM)</li> </ul>	Effective Date:	23 October 2021	Remarks:		DOE DC Title:	Adopting Further Amendments to WESM Rules and Market Manual on the Procedures for Changes to the WESM Rules, Retail Rules and Market Manuals	Amended Rules/Manual:	<ul style="list-style-type: none"> <li>WESM Rules</li> <li>WESM Manual on Procedures for Changes to the WESM Rules, Retail Rules and Market Manuals (RCM)</li> </ul>	DOE DC Title:	Repealing Section 3 of the DOE Department Circular No. DC2017-04-0006 Entitled "Adopting Further Amendments to the WESM Rules And Market Manuals"	Related RCC Resolution/s:	2020-08	Objective:	Abolition of WESM Manual on Administered Price Determination Methodology	Amended Rules/Manual:	n/a	Remarks:	Repealing Clause: Section 3 of DOE DC2017-04-0006
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Amended Rules/Manual:	n/a																										
Remarks:	Repealing Clause: Section 3 of DOE DC2017-04-0006																										
6.3. RCC Workplan	<p><u>Presenter:</u> Ms. Dianne L. De Guzman (Secretariat)</p> <p><u>Action Requested:</u> For discussion</p> <p><u>Proceedings:</u>        Ms. De Guzman presented the updates on the RCC Workplan that will be part of the RCC Semestral Report.</p> <p>Ms. Cruz encouraged the RCC members to submit possible proposed changes that will be included in the 2022 Workplan of the RCC.</p>																										



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Agenda	Agreements / Action Taken / Action Required
	<p>Mr. Claudio requested for an update from IEMOP on the ERC Directive regarding on study of Additional Compensation for Displaced Generators. He recalled that there was a presentation last March 2021 that a study will be submitted six (6) months from the implementation of EWDO about Additional Compensation. Mr. Cacho noted the request and will respond via email.</p> <p><u>Resolution:</u> The RCC noted the information provided.</p>
VIII. Schedule of Next Meetings	<p><u>Presenter:</u> Ms. Divine Gayle C. Cruz (Secretariat)</p> <p><u>Action Requested:</u> For information</p> <p><u>Proceedings:</u></p> <p>The RCC noted on the following schedule of meetings:</p> <ul style="list-style-type: none"> <li>• RCC Regular Meeting             <ul style="list-style-type: none"> <li>○ 21 January 2022</li> <li>○ 18 February 2022</li> <li>○ 18 March 2022</li> </ul> </li> </ul> <p><u>Resolution:</u> Presenter for the January PEM Board Meeting will be coordinated off-line.</p>
IX. Adjournment	The meeting was adjourned at 11:20 AM.




## MEETING MINUTES

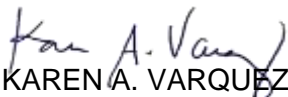
Subject/Purpose : 188<sup>th</sup> Rules Change Committee (Regular) Meeting  
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Prepared by:

  
DIANNE L. DE GUZMAN  
Specialist, Rules Review Division  
Market Assessment Group

Reviewed by:

  
KAREN A. VARQUEZ  
Manager, Rules Review Division  
Market Assessment Group

Noted by:

  
JOHN MARK S. CATRIZ  
Head, Market Assessment Group

Approved by:

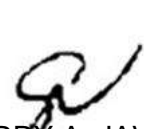
  
ALLAN C. NERVES  
Chairman, Independent

  
JESUSITO G. MORALLOS  
Member, Independent


CONCEPCION I. TANGLAO  
Member, Independent

(Vacant)  
Member, Independent

  
DIXIE ANTHONY R. BANZON  
Member, Generation Sector  
Masinloc Power Partners Co. Ltd. (MPPCL)

  
CHERRY A. JAVIER  
Member, Generation Sector  
Aboitiz Power Corp. (APC)

  
CARLITO C. CLAUDIO  
Member, Generation Sector  
Millennium Energy, Inc. / Panasia Energy, Inc.  
(MEI/PEI)

  
MARK D. HABANA  
Member, Generation Sector  
Vivant Corporation – Philippines (Vivant)



## MEETING MINUTES

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A handwritten signature in blue ink, appearing to read "Rylan S. Morales".

RYAN S. MORALES  
Member, Distribution Sector  
Manila Electric Company (MERALCO)

VIRGILIO C. FORTICH, JR.  
Member, Distribution Sector  
Cebu III Electric Cooperative, Inc. (CEBECO III)

RICARDO G. GUMALAL  
Member, Distribution Sector  
Iligan Light and Power, Inc. (ILPI)

A handwritten signature in black ink, appearing to read "Nelson M. Dela Cruz".

NELSON M. DELA CRUZ  
Member, Distribution Sector  
Nueva Ecija II Area 1 Electric Cooperative, Inc.  
(NEECO II – Area I)

A handwritten signature in black ink, appearing to read "Lorreto H. Rivera".

LORRETO H. RIVERA  
Member, Supply Sector  
TeaM (Philippines) Energy Corporation (TPEC)

A handwritten signature in blue ink, appearing to read "Isidro E. Cacho, Jr.".

ISIDRO E. CACHO, JR.  
Member, Market Operator  
Independent Electricity Market Operator of the  
Philippines (IEMOP)

A handwritten signature in black ink, appearing to read "Ambrocio R. Rosales".

AMBROCIO R. ROSALES  
Member, System Operator  
National Grid Corporation of the Philippines  
(NGCP)

# Proposed Enhancements to Extend Market Network Model

Proposed Changes to the Market Manuals on Load Forecasting Manual and Market Network Model

Independent Electricity Market Operator of the Philippines, Inc.



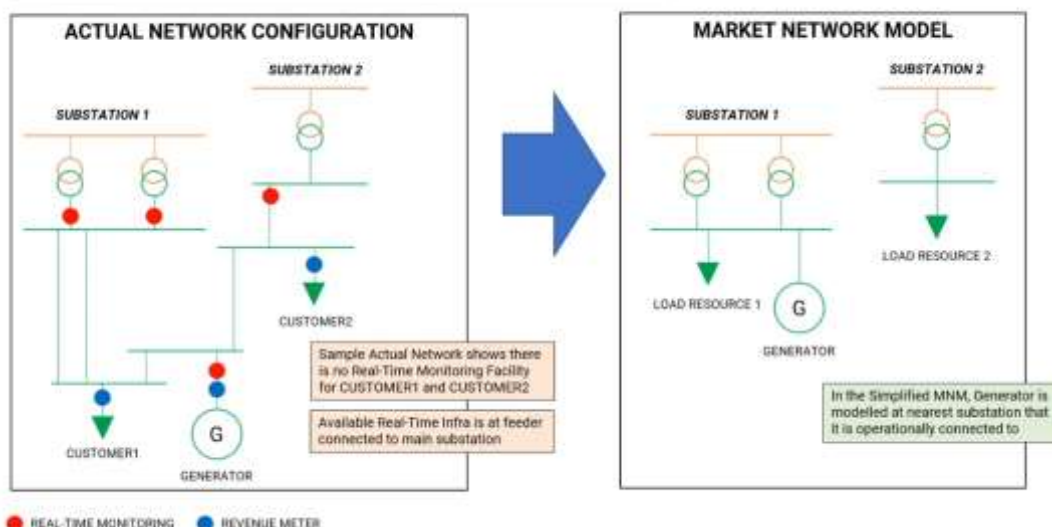
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## Background

- ❑ The WESM Rules and MNM Manual indicate provisions for the Market Operator to implement simplifications and approximations to the Market Network Model
- ❑ Current simplifications/approximations are implemented in cases where there is insufficient real-time monitoring to measure the consumption of loads downstream
- ❑ Ideally at the very least, the MNM should be modelled up to the connection point, or co-located at the revenue meter

### Main Criteria for Simplification

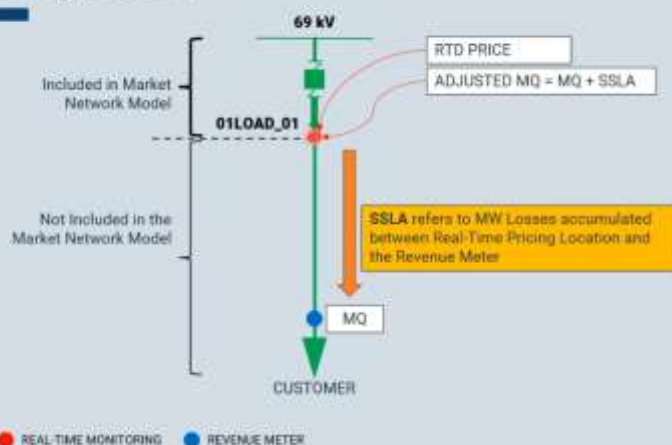
Insufficient real-time monitoring adjacent to the connection points of Customer Feeders



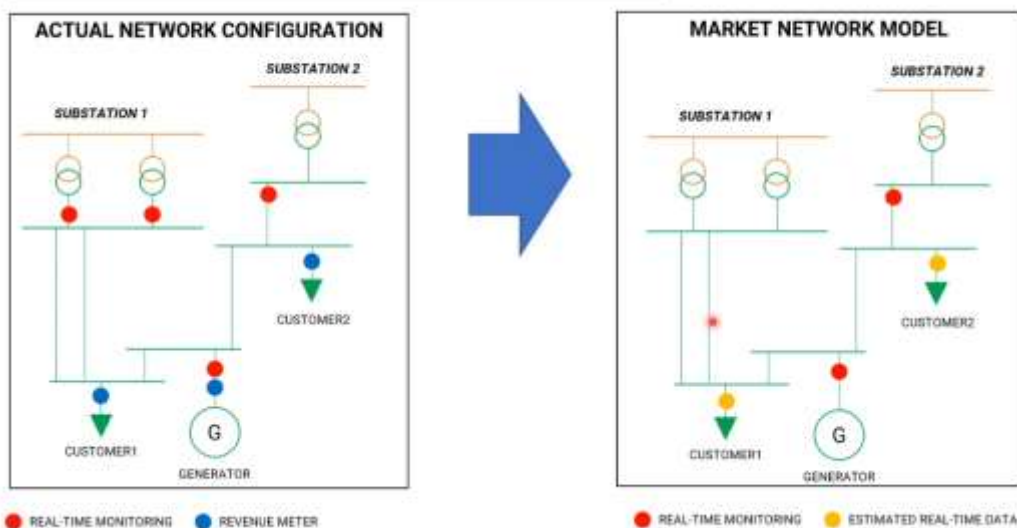
## Experience with Simplified Model

- ❑ Simplification has its disadvantages
  - Changes in connection to the grid are not captured in the MMS' MNM
  - Continued use of Site-Specific Loss Adjustment (SSLA)
- ❑ Extending the model has its advantages
  - This will reduce the need for the use of the SSLA
    - ✓ If real-time info and revenue meter are "co-located", Market Participants shall be settled immediately at their MQ and market price
    - ✓ No need to adjust MQ by adding SSLA
  - Changes to the connection to the grid can be captured at any time

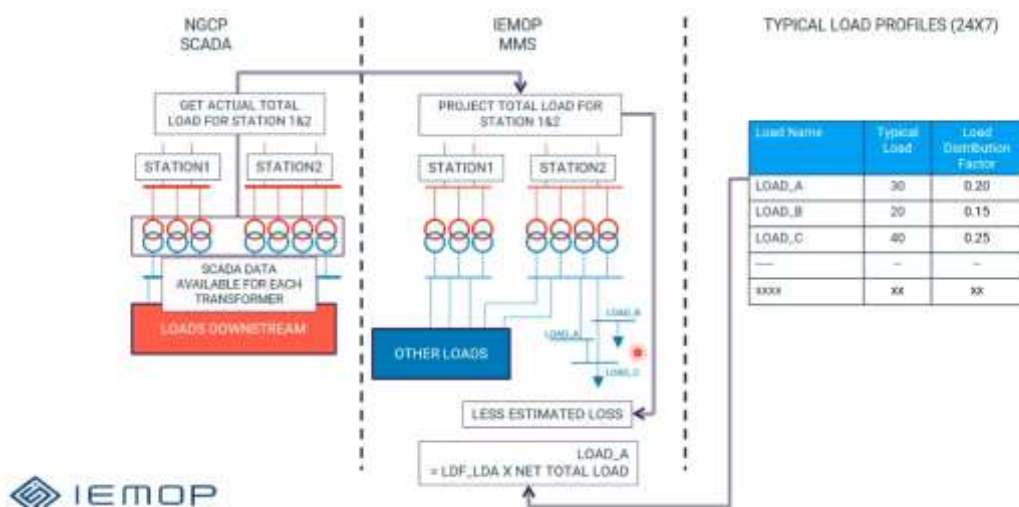
## Using SSLA



**Proposed Modelling**  
Estimate Real-Time Data Using Historical MQ



## Proposed Approach on Estimation of Loads



## Summary of Proposed Changes

- ❑ There is already a provision in the MNM manual to use "Scheduling Points"
- ❑ Introduce process of estimation of real-time data for loads (needs changes in the Load Forecasting Manual)
- ❑ Network Service Providers should provide the Market Operator activities that will impact the representation of the real-time configuration of the MNM (needs changes in the MNM Manual)



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**Proposed Amendments to the WESM  
Manual on System Security and  
Reliability Guidelines Issue 1.0, WESM  
Rules and Dispatch Protocol Manual  
Issue 16.0**  
*(Enhancements in view of the  
Implementation of Reserve Market)*

188<sup>th</sup> Rules Change Committee Meeting  
17 December 2021  
via Microsoft Teams

**NGCP**

## THE PROPONENT

- The proponent is the National Grid Corporation of the Philippines (NGCP) as the System Operator of the WESM.



## OUTLINE



**ACTION  
REQUESTED**



**RATIONALE OF THE  
PROPOSAL**



**SUMMARY OF THE  
PROPOSAL**



**OTHER RELEVANT  
MATTERS**



## Action Requested

- Approval of the Proposed Amendments to the WESM Manual System Security Standards and Reliability Guidelines Issue 1.0, WESM Rules and WESM Manual on Dispatch Protocol Issue 16.0 re enhancements in view of the implementation of Reserve Market



## Rationale of the Proposal

- Amend WESM Rules and corresponding WESM Manuals to update and enhance the provisions needed to preserve the system security and reliability in view of Reserve Market implementation through:
  - Harmonization with the use of the Old Ancillary Service Categories per DOE Department Circular No. DC2021-03-009
  - Harmonization with the definitions and provisions of the Philippine Grid Code 2016 Edition



## Summary of the Proposal

### A. WESM Manual on System Security and Reliability Guidelines Issue 1.0

1. Revision and updating of the following provisions/sections to align with DOE DC2021-03-0009 and PGC 2016:
  - [Section 5.1 Normal State Operation](#)
  - [Section 5.2 Alert State](#)
  - [Section 5.3 Emergency State](#)
  - [Section 5.4 Single Outage Contingency Criterion](#)
  - [Section 5.6 Voltage and Reactive Power Control](#)
  - [Section 5.7 Frequency Control](#)



## Summary of the Proposal

### *Section 5.1 Normal State Operation*

- Specification that the Grid frequency should be within +/- 0.3 Hz limits
- Addition of consideration of RR, CR, and DR values to be in accordance with the ASPP
- Specification of loading levels of transmission lines and substation equipment to be below 90% of thermal limit capacity of phase conductors and transformers
- Changes in the order of items for consistency and clarity



## Summary of the Proposal

### *Section 5.2 Alert State*

- Added single outage contingency criterion as a consideration for alert state
- Added consideration of RR and CR values for consideration of alert state
- Changes in the order of items for consistency and clarity



## Summary of the Proposal

### *Section 5.3 Emergency State*

- Added single outage contingency or multiple outage contingency without total system blackout as considerations in emergency state
- Added loading levels of any transmission line or substation equipment above 115% of operational thermal limit capacity as consideration for emergency state
- Changes in the order of items for consistency and clarity





## Summary of the Proposal

### *Section 5.4 Single Outage Contingency (N-1) Criterion*

- Included loss of point-to-point connection of generating plant to the grid as contingencies relating to N-1 Criterion
- Changed “islanding” to “islanding operation” for consistency
- Added the Market Operator as recipient of the planned activity notice or request and System Operator’s notification of decision on User request.



## Summary of the Proposal

### *Section 5.6 Voltage and Reactive Power Control*

- Clarified that the in normal state, the control of voltage shall be achieved by managing the reactive power supply in the grid.



## Summary of the Proposal

### *Section 5.7 Frequency Control*

- Clarified the control of grid frequency to be controlled by RR during normal conditions and timely use of CR, DR and demand control during alert of emergency conditions
- Specified that speed-droop shall be set at 5% or better to provide an equitable and coordinated system response to generation load imbalances



## Summary of the Proposal

### *Section 5.8 System Reserve Requirements*

- Addition of Dispatchable Reserves in the reserve requirements
- Minor clerical changes



## Summary of the Proposal

### *Section 5.9 Demand Control*

- Addition of notification of SO to user if reduction in demand is envisioned to be prolonged, during an event of protracted shortage in generation
- Addition of conditions where Demand Control shall be implemented
- Numbering changes



## Summary of the Proposal

### *Section 5.10 Automatic Load Dropping (ALD) and Manual Load Dropping (MLD)*

- Addition of provisions concerning ALD particularly for Underfrequency Load Shedding (UFLS) and Under-Voltage Load Shedding (UVLS)
- Updating of provisions for Manual Load Dropping
- Change in numbering



## Summary of the Proposal

### *Section 5.11 System Restoration*

- Addition of provisions related to CR and RR availability in stabilizing power system and restoration to normal state following a multiple outage contingency
- Addition of provisions related to black start for restoration
- Minor changes for consistency
- Numbering changes



## Summary of the Proposal

### *Section 5.12 Grid Protection Requirements*

- Revised provisions to specify that grid protection shall be designed, wired, set and coordinated such that operation will not occur for external fault or non-fault conditions
- Revised provisions for redundant protection system for clarity
- Revised provision for installation and protection of System Integrity Protection Scheme (SIPS)



## Summary of the Proposal

### *Section 6 System Operator Responsibilities*

- Revise provisions for manual corrective interventions following N-k contingency in anticipation of probable secondary outage
- Revised provision to clarify that MRUs are re-dispatched out-of-merit
- Revised provision to require uniform dead band for generating units providing CR as Ancillary Service
- Added provision for SO to maintain the Frequency Response Obligation (FRO)



## Summary of the Proposal

### A. WESM Manual on System Security and Reliability Guidelines Issue 1.0

1. Revision and updating of the following provisions/sections to align with DOE DC2021-03-0009 and PGC 2016:
  - [Section 5.8. System Reserve Requirements](#)
  - [Section 5.9 Demand Control](#)
  - [Section 5.10 Automatic Load Dropping and Manual Load Dropping](#)
  - [Section 5.11 System Restoration](#)
  - [Section 5.12 Grid Protection Requirements](#)
  - [Section 6 System Operator Responsibilities](#)



## Summary of the Proposal

2. Updating and addition of definitions to harmonize with DOE DC2021-03-0009 and PGC 2016.
3. Other Changes
  - [Section 5.5 Grid Operation Notices](#)
  - [Section 5.13 Telecommunications Requirements](#)
4. Minor changes for consistency and clarity



## Summary of the Proposal

### *Section 5.5 Grid Operation Notices*

- Revised provisions for considerations in issuance of Yellow Alert Notice, for clarity



## **Summary of the Proposal**

### **B. WESM Rules**

1. Updating of definitions to harmonize with DOE DC2021-03-0009 and PGC 2016.

### **C. WESM Dispatch Protocol Issue 16.0**

1. Updating and addition of definitions to harmonize with PGC 2016.







## DC2021-07-0021

<b>DOE DC Title:</b>	Adopting Further Amendments to the WESM Rules and Market Manuals on Metering for the Implementation of Enhancements to the WESM Design and Operations
<b>Related RCC Resolution/s:</b>	2019-06; 2019-10; 2020-01; 2020-41
<b>Objective:</b>	<ul style="list-style-type: none"> <li>• Clarification that PEMC shall have the responsibility to monitor the Metering Services Provider as part of its governance function.</li> <li>• Alignment of the manual with the standards set forth in PGC, PDC and issuances from DOE and ERC.</li> <li>• Enhancements on the calculation of SSLA and clarification on the appropriate location of the metering point</li> <li>• Revision to the standards and requirements for the current transformer for revenue metering</li> </ul>
<b>Amended Rules/Manual:</b>	WESM Rules and WESM Manual on Metering Services and Procedures (WM-MSP)
<b>Effective Date:</b>	06 November 2021
<b>Remarks:</b>	There are provisions that are inconsistent specifically on the MSP Performance Measures. (For clarification with DOE)

## DC2021-08-0025

<b>DOE DC Title:</b>	Providing Policies for the Adoption of the WESM Penalty Manual for the Implementation of Enhancements to the WESM Design and Operations
<b>Related RCC Resolution/s:</b>	n/a
<b>Objective:</b>	To set out the penalty system that is applied in cases of breach of the WESM Rules and the Retail Rules and their implementing Market Manuals.
<b>Amended Rules/Manual:</b>	Penalty Manual
<b>Effective Date:</b>	23 October 2021
<b>Remarks:</b>	This Manual is a document of the Market Surveillance Committee (MSC) and did not go through the regular rules change process. The MSC presented the draft Manual to the RCC on 01 June 2018 (141 <sup>st</sup> RCC meeting) to solicit comments.

## DC2021-08-0026

<b>DOE DC Title:</b>	Providing Policies for the Adoption of the WESM Rules and its Market Manuals for the Implementation of Enhancements to the WESM Design and Operations (Provisions for the Market Surveillance, Enforcement and Compliance)
<b>Related RCC Resolution/s:</b>	2018-03-06
<b>Objective:</b>	to clarify the roles and functions of the PEM Board, the Enforcement and Compliance Office, the Market Surveillance Committee and other WESM organizational units that are involved in the enforcement and compliance processes in the WESM
<b>Amended Rules/Manual:</b>	<ul style="list-style-type: none"> <li>WESM Rules</li> <li>WESM Manual on Market Surveillance, Compliance and Enforcement Market (MSCM)</li> <li>WESM Manual on Procedures for Changes to the WESM Rules, Retail Rules and Market Manuals (RCM)</li> </ul>
<b>Effective Date:</b>	23 October 2021
<b>Remarks:</b>	

## DC2021-10-0033

<b>DOE DC Title:</b>	Adopting Further Amendments to WESM Rules and Market Manual on the Procedures for Changes to the WESM Rules, Retail Rules and Market Manuals
<b>Amended Rules/Manual:</b>	<ul style="list-style-type: none"> <li>WESM Rules</li> <li>WESM Manual on Procedures for Changes to the WESM Rules, Retail Rules and Market Manuals (RCM)</li> </ul>

## DC2021-10-0034

<b>DOE DC Title:</b>	Repealing Section 3 of the DOE Department Circular No. DC2017-04-0006 Entitled "Adopting Further Amendments to the WESM Rules And Market Manuals"
<b>Related RCC Resolution/s:</b>	2020-08
<b>Objective:</b>	Abolition of WESM Manual on Administered Price Determination Methodology
<b>Amended Rules/Manual:</b>	n/a
<b>Remarks:</b>	Repealing Clause: Section 3 of DOE DC2017-04-0006



## Annex C – DOE-approved Revised Market Rules and Manuals

