



MEETING MINUTES

Subject/Purpose : 181st Rules Change Committee Meeting
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ATTENDEES

	Name	Designation/Position	Department/Company
1	Maila Lourdes G. De Castro	Chairperson, Independent	RCC
2	Francisco L.R. Castro, Jr.	Member, Independent	RCC
3	Allan C. Nerves	Member, Independent	RCC
4	Concepcion I. Tanglao	Member, Independent	RCC
5	Dixie Anthony R. Banzon	Member, Generation Sector	RCC
6	Cherry A. Javier	Member, Generation Sector	RCC
7	Carlito C. Claudio	Member, Generation Sector	RCC
8	Jessie Victorio	Member (Alternate), Generation Sector	RCC
9	Mark Habana	Member, Generation Sector	RCC
10	Michelle Tuazon	Member (Alternate), Generation Sector	RCC
11	Ryan S. Morales	Member, Distribution Sector	RCC
12	Ricardo G. Gumalal	Member, Distribution Sector	RCC
13	Nelson M. Dela Cruz	Member, Distribution Sector	RCC
14	Virgilio Fortich, Jr.	Member, Distribution Sector	RCC
15	Getulio Z. Crodua	Member (Alternate), Distribution Sector	RCC
16	Lorreto H. Rivera	Member, Supply Sector	RCC
17	Ambrocio R. Rosales	Member, System Operator	RCC
18	Isidro E. Cacho, Jr.	Member, Market Operator	RCC
19	Karen A. Varquez	RCC Secretariat	PEMC
20	Divine Gayle C. Cruz	RCC Secretariat	PEMC
21	Dianne L. De Guzman	RCC Secretariat	PEMC
22	Kathleen R. Estigoy	RCC Secretariat	PEMC
23	Ma. Hazel M. Gubaton-Lopez	Proponent	PEMC
24	Geraldine A. Rodriguez	Proponent	PEMC
25	Sheryll M. Dy	Proponent	IEMOP
26	Julius Eleazar A. Bunyi	Proponent	IEMOP
27	Edward I. Olmedo	Proponent	IEMOP
28	Valfia U. Gregorio	Proponent	IEMOP
29	Jenny I. Jalandoni	Proponent	IEMOP
30	Melanie C. Papa	Observer	DOE
31	Mari Josephine C. Enriquez	Observer	DOE
32	Ermelindo R. Bugaoisan, Jr.	Commenter	NGCP
33	Homernico Mari B. Palma	Commenter	NGCP

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34	Rodrigo B. Dacanay, Jr.	Commenter	NGCP
35	Joselito C. Quilala	Commenter	NGCP
36	Bryan Albert Castro	Commenter	Aboitiz Power Corp.
37	Rhovel Flores	Commenter	Aboitiz Power Corp.
38	Glynn Andy Gayman	Commenter	Aboitiz Power Corp.
39	Anthony Reyes	Commenter	Aboitiz Power Corp.
40	Richard O. Arcenal	Commenter	SPC Power Corp.
41	Laudy Lyn O. Calde	Commenter	SPC Power Corp.
42	Kevin John Y. Dela Cuesta	Commenter	Technical Committee Secretariat



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I. Call to Order	The meeting was conducted via Microsoft Teams and was called to order at 9:07 AM by Ms. Concepcion I. Tanglao (Designated Presiding Officer/Independent). Atty. Maila Lourdes G. De Castro (Chairperson/Independent) presided the meeting shortly after.
II. Determination of Quorum	<ul style="list-style-type: none"> 15 RCC principal members and 3 alternate members were in attendance.
III. Presentation and Approval of the Proposed Agenda	<p>The provisional agenda of the meeting was approved and adopted by the body, as amended.</p> <p>The Secretariat requested that the meeting be adjourned at 3:00 PM for them to attend the virtual send-off ceremony for the retirement of Atty. Oscar E. Ala (PEMC President), which the RCC agreed to.</p>
IV. Review and Approval of the Minutes of the 180 th RCC Meeting held on 18 June 2021	<p>On the query sent by Ms. Tanglao (Independent) on the draft 179th RCC Regular Meeting, Chairperson De Castro clarified that the decision of the RCC was to deny the proposal to delete the “PEM Board” among entities that may be impleaded in WESM disputes under WESM Rules Clause 7.3.1.1, and replace it with the term “Governance Arm” for consistency with how the term is defined under DOE Circular No. 2020-10-0021 (Provisions for the Implementation of Independent Market Operator).</p> <p>Mr. Ricardo G. Gumalal (Distribution) moved to approve the minutes of meeting, which was duly seconded by Ms. Tanglao. The Secretariat’s request to affix the e-signature of RCC Members was also approved by the body.</p>
V. Matters Arising from Previous Meeting	
5.1. RCC Resolution No. 2021-08: Revisions to RCC Resolution No. 2019-19 on the Proposed Revisions to the WESM Rules and New WESM Compliance Officers (WCO) Accreditation and Certification Manual	<p><u>Presenters:</u> Atty. Ma. Hazel M. Gubaton-Lopez (PEMC)</p> <p><u>Action Requested:</u> For discussion and approval to endorse to PEM Board and affix e-signature</p> <p><u>Meeting Material:</u> Annex A – Matrix of Further Amendments to the WESM Rules and New WESM Compliance Officers (WCO) Accreditation and Certification Manual</p> <p><u>Proceedings:</u></p>

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	<p>Atty. Ma. Hazel Gubaton-Lopez (PEMC) presented the difference between the approved RCC version, and the further amendments as instructed by the DOE. Highlights of the discussion are as follows:</p> <p><i>A. WESM Rules</i></p> <ul style="list-style-type: none"> • In Clause 1.8.2, review and approval of the guidelines for the WESM Compliance Officers' (WCO) competency standards and certification program is an additional task on the part of the Compliance Committee for purposes of check and balance in establishing standards and guidelines. • In Chapter 7, the term "designation and accreditation" was changed to "certification and registration" because what is being certified is the individual or the WESM Compliance Officer. • The terms "certification and registration" and "governance arm" were incorporated in the proposal. • In Clause 7.2.9.2, in addition to the enumerated obligations of the WCO, it was added that they need to undergo a certification process as WESM Compliance Officers. <p><i>B. Proposed New WESM Manual on WESM Compliance Officers Certification and Registration Issue 1.0</i></p> <ul style="list-style-type: none"> • The title was changed from "WESM Compliance Officers (WCO) Accreditation Manual" to "WESM Compliance Officers (WCO) Certification and Registration Manual". • The WCO Accreditation Body was removed as its obligations will instead be performed by the WESM Governance Arm as proposed by the DOE. • The Governance Arm can provide training to the designated WCOs and registered WCOs, and will evaluate the submitted reports by the WCOs, subject to the review of the Compliance Committee. The WESM Members shall be responsible for the registration of their respective WCOs in the WESM. • Compliance period is set every three (3) years. WCOs shall comply with continuing certification requirements after the first compliance period . • The WCO of the Market Operator is proposed to be exempted from the certification program in recognition of MO's expertise in the WESM, but the MO's WCO is not exempted from the registration requirements. The Market Operator may also provide lectures or trainings to the designated and registered WCOs, as currently practiced.



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	<ul style="list-style-type: none"> • Section 3 was revised to focus on the process of certification, with the following modifications: <ul style="list-style-type: none"> ○ The WCO nomination form was removed from the proposal to give flexibility in detailing the procedure. It will be part of the Governance Arm's internal business process. Also, the person who must undergo the certification process and the definition of the senior management were transferred to this section. ○ The credit unit to be completed was changed from 20 to 36 units. The compliance period was also lengthened from one (1) year to three (3) years. It was patterned after the continuing education requirement of the Professional Regulatory Commission (PRC). Before the end of the compliance period, the registered WCO must complete the 36 credit units. ○ The thirty (30) days grace period within which to comply with the certification requirements was removed due to the extended compliance period of three (3) years. ○ For renewal purposes, the period for compliance assessment and notification by the Governance Arm to the registered WCO was changed from one (1) month to six (6) months before the end of each compliance period. Upon completion of renewal requirements, a Certificate of Registration will be issued indicating the validity period. ○ The Governance Arm will issue the certification for those who completed the credit units. ○ New provision was added for the Governance Arm to formulate guidelines to effectively facilitate implementation of the Manual. ○ There can be several designated WCOs in one entity, but only one will be registered as WCO in the WESM. The other designated WCOs may also continue to renew or comply with the continuing certification requirements. The objective of the certification is to keep the officers updated of the developments in the WESM. ○ All WESM Members and the Market Operator must update the registration of their respective registered WCOs. ○ Affiliated WESM Members may be allowed to register one (1) WCO to provide flexibility for the registration of more than one (1) WCO as it may happen that the WESM Member may have one or more facilities having different plant types.

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	<ul style="list-style-type: none"> • The classification of WCO as probationary, active, and inactive was removed. To be straightforward, the WESM Compliance Officer is referred to as either registered or designated. • The one (1) year work experience in electricity market operations/trading was removed as the requirement for WCO. It was replaced as someone occupying a senior management position. • During the interim period, the registered WCOs who are not yet certified shall undertake necessary action to comply with the certification requirements. • The pro-rating of credit units required for WCOs who would be designated at the later part of the compliance period was removed since the period for complying with the certification was already extended to three (3) years. • Credit units were changed to consider attendance to trainings rather than the result of the examinations given during the trainings. Consequently, there is no need for the development of test questions and test data banks. • The training topic list provided under Section 6.1 is not an exhaustive list. • Lectures and trainings may also be conducted through online platforms and materials may also be provided via e-mail. • In case of separation of the registered WCO from the WESM Member, the latter shall inform the Governance Arm, from within fifteen (15) days to three (3) working days from such occurrence. • Full or partial certification was removed. The earned credit units as previously earned from previous employment of the WCO must be confirmed by the Governance Arm. • All WESM Members may have a pool of certified WCOs, where it can select its registered WCO. The Market Operator may select the replacement of its registered WCO since it has no pool of certified WCOs. • Non-registration of WCO by a WESM member shall result to the issuance of a Non-Compliance Notice by the Governance Arm and imposition and collection of a non-compliance fee as penalty in such amounts authorized under the WESM Penalty Manual. • The non-compliant registered WCO shall not be authorized to represent his/her respective organization in any case or proceedings pending with the Governance Arm or in matters relating to enforcement and compliance. As a remedy, the



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	<p>WESM Member can immediately register another WCO from its pool of certified WCOs.</p> <ul style="list-style-type: none"> • An appendix for the workflow of procedures relating to certification procedure was added. • A transitory provision was added stating that all current registered WCOs in the WESM may remain to be the registered WCOs subject to the provisions set forth in the manual. <p>Chairperson De Castro asked if the Market Operator will also be receiving trainings from other jurisdictions to comply with the training requirements. Atty. Gubaton-Lopez responded that the Market Operator may consider it in the future, but it is not required of them to have such training. The MO is the other entity, aside from the Governance Arm, which can provide certification training because of their expertise in the field.</p> <p>Ms. Divine Gayle C. Cruz (RCC Secretariat) then presented the contents of the draft resolution for the proposal, which was sent to the RCC on 13 July 2021.</p> <p>Having no further questions, Mr. Francisco L.R. Castro, Jr. (Independent) moved for the approval of the draft RCC resolution and for the affixing of RCC members' e-signature to the resolution, which was duly seconded by Mr. Mark Habana (Generation). The motion was approved and adopted by the body.</p> <p><u>Resolution:</u> The RCC approved to endorse RCC Resolution 2021-08 to the PEM Board.</p>
<p>5.2. Draft RCC Resolution No. 2021-09: Revisions to RCC Resolution No. 2019-04 on the Proposed Amendments to the WESM Rules, Retail Rules and Market Manuals Related to Audit and Performance Monitoring</p>	<p><u>Presenter:</u> Ms. Divine Gayle C. Cruz (RCC Secretariat)</p> <p><u>Action Requested:</u> For approval to affix e-signature and endorsement to PEM Board</p> <p><u>Proceedings:</u> Ms. Divine Gayle C. Cruz (RCC Secretariat) presented the contents of the draft resolution, which was sent to the RCC on 13 July 2021.</p> <p>Ms. Cruz noted that the significant change to RCC Resolution No. 2019-04 was the frequency for the conduct of periodic audit, worded as:</p>

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	<p><i>“The PEM Audit Committee shall conduct periodic audits at least once at interval not exceeding three (3) years from the last audit considering the results of the past audits that indicate that the Market Operator has demonstrated an acceptable level of maturity in its compliance with the WESM rules and related standards.</i></p> <p><i>After the first three (3) audits of a particular system or process, the PAC may consider adjusting the frequency of the periodic audits based on the Market Operator’s compliance maturity level. The PAC deems a system or process to be mature when it has consistently exhibit no or minimal audit finding for the past three (3) audits and whose impact do not pose significant operational, legal or market risks.”</i></p> <p>Having no further comments or questions, Mr. Castro, Jr. moved for the approval of the draft RCC resolution and for the affixing of RCC members’ e-signature to the resolution, which was duly seconded by Mr. Gumalal. The motion was approved and adopted by the body.</p> <p><u>Resolution:</u> The RCC approved to endorse RCC Resolution 2021-09 to the PEM Board.</p>
<p>5.3. Draft RCC Resolution No. 2021-10: Amendments to the Rules Change Committee Internal Rules Issue 5.0</p>	<p><u>Presenter:</u> Ms. Divine Gayle C. Cruz (RCC Secretariat)</p> <p><u>Action Requested:</u> For approval to affix e-signature</p> <p><u>Proceedings:</u></p> <p>Ms. Cruz presented the contents of the draft resolution, which was sent to the RCC on 13 July 2021.</p> <p>As part of the 2021 Work Plan, the RCC is tasked to review its Internal Rules. She emphasized that during the 180th RCC Regular Meeting, the body included the following responsibilities, besides the proposed revision of the Secretariat:</p> <ul style="list-style-type: none"> • Representation by the sectoral members to PEM Board meetings and PEMC activities, in case of unavailability or upon request of independent members; and • In instances when the principal member needs to leave the virtual meeting, the alternate member must be required to attend to maintain the quorum.

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	<p>Having no further comments or questions, Mr. Gumalal moved for the approval of the draft RCC resolution and for the affixing of RCC members' e-signature to the resolution, which was duly seconded by Ms. Lorreto H. Rivera (Supply). The motion was approved and adopted by the body.</p> <p><u>Resolution:</u> The RCC approved RCC Resolution 2021-10.</p>
<p>5.4. Draft RCC Resolution No. 2021-11: Proposed Amendments to the WESM Rules and WESM Registration Manual regarding De-registration and Cessation (ORCP-WR-WM-21-05)</p>	<p><u>Presenter:</u> Ms. Divine Gayle C. Cruz (RCC Secretariat)</p> <p><u>Action Requested:</u> For approval to affix e-signature and endorsement to PEM Board</p> <p><u>Proceedings:</u></p> <p>Ms. Cruz presented the contents of the draft resolution, which was sent to the RCC on 13 July 2021. In the matrix of proposed amendments, she noted that the RCC adopted the proposal as submitted.</p> <p>Having no further comments or questions, Mr. Isidro E. Cacho (Market Operator) moved for the approval of the draft RCC resolution and for the affixing of RCC members' e-signature to the resolution, which was duly seconded by Ms. Rivera. The motion was approved and adopted by the body.</p> <p><u>Resolution:</u> The RCC approved to endorse RCC Resolution 2021-11 to the PEM Board.</p>
<p>5.5. Draft RCC Resolution No. 2021-12: Proposed Revisions to the PEM Board-Approved Amendments to Clarify Bilateral Contracts Accounted for in Settlements (ORCP-WM-20-03A)</p>	<p><u>Presenter:</u> Ms. Divine Gayle C. Cruz (RCC Secretariat)</p> <p><u>Action Requested:</u> For approval to affix e-signature and endorsement to PEM Board</p> <p><u>Proceedings:</u></p> <p>Ms. Cruz presented the contents of the draft resolution, which was sent to the RCC on 13 July 2021.</p> <p>She underscored DOE's concern for remanding the proposal, which in effect categorized a Generation Company as a Supply Customer since there is no existing policy to date that supports the arrangement. Thus,</p>



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	<p>the revision required the submission of a copy of contract for replacement powers between generators. A new term, “Replacement Power Arrangement” was also added to refer to an agreement between two generation companies for the delivery of electricity by the purchasing generation company to its customers when its power plant is on outage.</p> <p>Having no further comments or questions, Ms. Rivera moved for the approval of the draft RCC resolution and for the affixing of RCC members’ e-signature to the resolution, which was duly seconded by Mr. Castro, Jr. The motion was approved and adopted by the body.</p> <p><u>Resolution:</u> The RCC approved to endorse RCC Resolution 2021-12 to the PEM Board.</p>
<p>5.6. Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring (ORCP-WM-21-04)</p> <ul style="list-style-type: none"> ○ Discussion of IEMOP’s Revision ○ NGCP Comments 	<p><u>Presenters:</u></p> <p>Ms. Divine Gayle C. Cruz (RCC Secretariat) Ms. Valfia U. Gregorio (IEMOP) Mr. Ermelindo R. Bugaoisan, Jr. (NGCP)</p> <p><u>Action Requested:</u> For discussion/approval for endorsement to the PEM Board</p> <p><u>Meeting Materials:</u> Annex B - Matrix of Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring</p> <p><u>Proceedings:</u></p> <p>Ms. Cruz noted that the submission of comments for the proposal has lapsed last 03 June 2021. The Secretariat received comments from NGCP on 05 July 2021. Thus, she inquired from the RCC if NGCP’s comments will still be considered for deliberation considering that it was submitted beyond the deadline.</p> <p>Chairperson De Castro recognized the attendance of Mr. Ermelindo R. Bugaoisan, Jr. and Mr. Homernico Mari B. Palma as representatives of the NGCP. She also stated that she is inclined in giving due course to NGCP’s comments and the body confirmed that they are willing to accommodate.</p>



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	<p>Ms. Cruz noted that prior to the meeting, the Secretariat forwarded NGCP's comments to IEMOP, as the proponent, for their response, in preparation for the RCC's discussion.</p> <p>Highlights of the deliberation of comments are as follows:</p> <ul style="list-style-type: none"> On the TC's request for looping example as an input to Section 5.3.2 (Simplifications on the Market Network Model), Mr. Edward I. Olmedo (IEMOP) said that IEMOP will submit the same within the day. On Section 5.10.2, Mr. Bugaoisan, Jr. explained that they wanted a level of acceptability in requiring real-time data considering that monitoring is not always perfect like in forecasting. Ms. Valfia U. Gregorio (IEMOP) responded that IEMOP is agreeable to the comment. However, she noted that the additional proposed language will trigger the development by the MO and the SO of the level of acceptability standards for provision of real-time data, and that the compliance with said standards will require monitoring and/or enforcement for compliance purposes by the Enforcement and Compliance Office (ECO). <p>Mr. Allan C. Nerves (Independent) clarified if IEMOP is amenable in coming-up with the standard metrics in providing real-time data. Mr. Olmedo answered in the affirmative and said that the same will be formulated together with the SO, similar on how they formulate the Market Operator Performance Standards (MOPS). He also said that they will try to come-up with a benchmark on the level of acceptability.</p> <p>Chairperson De Castro inquired if the metrics for development will delay any process or trigger a submission of another document. Mr. Olmedo replied that it will not in any way delay any process, and it is about time for the development of the said metrics. He also said that the metrics may come in the form of appendix to the Dispatch Protocol Manual, to be submitted to the RCC.</p> <p>In the metrics development, Mr. Ambrocio R. Rosales (System Operator) suggested considering the way forward if after the threshold for the level of acceptability was breached and if the real-time data would still be accepted after the threshold breach. The process for correcting bad data must also be included</p>

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	<p>considering the five (5) minute interval and the source of bad data, like for instance when the error comes from the generator. He also opined that the five (5) minute trading interval is so compressed to find solutions in case of bad data from the generator. Mr. Bugaoisan, Jr. supported the statement of Mr. Rosales and added that the dilemma of the dispatchers is on the accuracy of real-time data due to data unavailability. The response time to ensure accuracy of the data would be difficult for the SO if the problem is on the side of the plant as there are instances that it takes longer for the plant to correct it. He also expressed his agreement with Mr. Olmedo to indicate the metrics in the Dispatch Protocol Manual.</p> <p>Mr. Olmedo clarified that they envision the metrics to contain indications if they are already deviating from certain standards. If the standards are unmet, it is an indication that they should address something but not necessarily in real-time, as the indicator can be collected over time. He also noted that the concern of NGCP will be included in the escalation process separate from the metrics.</p> <p>Ms. Cruz requested for clarification if the metrics to be developed is not a pre-requisite for the approval to endorse the proposal to the PEM Board. Mr. Olmedo affirmed the understanding of the Secretariat and added that the proposal would become their basis in crafting the metrics, which will be separately submitted as part of the Dispatch Protocol Manual.</p> <p>The body adopted the comment of NGCP.</p> <ul style="list-style-type: none"> On Section 5.10.3, Mr. Bugaoisan, Jr. stated that they are proposing to shorten the time for the Trading Participant (TP) to resolve erroneous data considering that accuracy and availability of data is not only the responsibility of the SO, but of all entities involved. He explained that the SO is only a medium in gathering the data from the plant and it has no control over it especially when the problem is on the plant's Distributed Control System (DCS). <p>Mr. Carlito C. Claudio (Generator) opined that the seven (7) day period for resolving erroneous data is too tight for the generators. He noted that the maintenance of Remote Telemetry Unit</p>



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	<p>(RTU) is not the business of the generators. When RTU problem occurs, the generator needs to call for a third party for troubleshooting. In this event, the response time of the SO and the TP are not comparable. He added that the maintenance of real-time monitoring equipment is part of NGCP's business as it is approved by the Energy Regulatory Commission (ERC) to be part of its operating expense. He posited that unless the SO is willing to assist the TP in troubleshooting the RTU, the TP should not be restricted in resolving the erroneous data within seven (7) days.</p> <p>Upon inquiry of the Chairperson, Mr. Claudio proposed that seven (7) to thirty (30) day period would be enough for the TP to resolve the issue.</p> <p>Mr. Bugaoisan, Jr. acknowledged the tripartite responsibility between the MO, SO and TP in providing accurate data. However, if the period for the TP to resolve the erroneous data would be extended, the accuracy level of data produced by SO will also be affected. He also noted that it would be inefficient for the dispatcher to manually input data instead of doing its core function of ensuring the reliability and security of the grid.</p> <p>Mr. Claudio stated that the RTUs owned by the TP does not exceed 5% of the total RTUs as compared to NGCP's ownership, based on his estimate. He also asked if the SO has data on the history of failures to provide accurate data on the part of the TP for them to claim that it would be a dilemma of the dispatchers to manually input the data. Mr. Bugaoisan, Jr. said that they will provide the data citing a TP which took three (3) months to resolve the inaccurate data. He also stated that it would be problematic on the part of the SO to provide accurate data for the five (5) minute dispatch interval.</p> <p>Mr. Claudio reiterated his suggestion for the SO to aid the TP in troubleshooting its RTU for a fee, to which Mr. Bugaoisan, Jr. concurred to be discussed within NGCP. Mr. Rosales emphasized to shorten the period for the TP to correct its data to indicate a sense of urgency.</p> <p>Chairperson De Castro requested Mr. Olmedo to share his insight for an acceptable resolution period. Mr. Olmedo</p>



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	<p>suggested that the seven (7) day period would be sufficient for the TP to confirm the data to be fixed, and within the thirty (30) day period, the TP should have resolved the problem. Ms. Cherry Javier (Generation) agreed to the suggestion of Mr. Olmedo.</p> <p>Mr. Bugaoisan, Jr. suggested for a maximum of fifteen (15) day period due to the urgency imposed by the five (5) minute dispatch interval. He also noted that the MO is no longer getting data from the SO based on snapshots, it gathers data real-time through the Inter-Control Center Communications Protocol (ICCP). Following the “garbage-in” “garbage out” principle, the use of real-time data of the MO will not be beneficial. The SO will not be able to immediately correct the data fetched by the MO if the resolution time would be longer.</p> <p>Ms. Javier asked if there was also a provision providing for timeline on the part of the SO to correct erroneous data. Mr. Claudio suggested for a seven (7) day period for the SO to correct its data given that it is their RTU is one of their core businesses. Mr. Bugaoisan, Jr. recommended for a fifteen (15) day period both for the SO and TP to resolve the erroneous data. Chairperson De Castro asked for clarification if the fifteen (15) day period is not a separate timeline for the SO and TP, to which Mr. Bugaoisan, Jr. confirmed.</p> <p>The body adopted the fifteen (15) day period for both the SO and TP to resolve erroneous data.</p> <ul style="list-style-type: none"> On Section 6, Mr. Bugaoisan, Jr. emphasized that the data provision to MO is on real-time basis and so, the SO will have no opportunity to correct it instantaneously; hence, their suggestion for the MO to have the responsibility for estimating real-time data as they also have a system tool like the state estimator. <p>Mr. Claudio expressed his agreement on the response of IEMOP that the SO, being the data owner, should be the one responsible in ensuring the accuracy and quality of data. He posited that the NGCP, which has the state estimator should use it for data accuracy.</p> <p>Mr. Bugaoisan, Jr. clarified that the real-time data no longer pass thru NGCP’s state estimator as agreed with IEMOP. Thus, the</p>



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	<p>NGCP has no opportunity to correct the data immediately. He also explained that SO is not the data owner but only a medium. The data owner is the data source, which is the TP. He amplified that the MO, being the end-user, should also have the responsibility in ensuring data accuracy.</p> <p>Mr. Olmedo likened the responsibility of providing data to the generation offers, wherein the TP ensures that the capability of their plant and the way that they manage is their sole responsibility as the MO must not tamper the offers that they are providing. He posited that as end-user, their responsibility is only to escalate in the form of reporting, the problem, or issues that they experienced. He added that in terms of the data coming from the market management system (MMS), the MO likewise bears the sole responsibility for its accuracy. Further, Mr. Bugaoisan, Jr. stated that he agrees with Mr. Olmedo on the point that data should not be tampered, and in the case of NGCP, it cannot also override the erroneous data provided to them by the TP.</p> <p>Mr. Rosales emphasized that the MO fetches the data directly and in real-time from the field. This data does not pass thru the NGCP's state estimator. Thus, it is important to ensure that a threshold for the level of accuracy must be set before providing a Real-Time Dispatch (RTD) solution. He also stated that he believes that the MO has its own state estimator as it just upgraded its system. This state estimator can detect breach in the threshold and can provide estimated value for the continuing run of RTD solution. Moreover, he explained that the NGCP uses its state estimator for them to be guided in contingency cases where there is N-1 disturbance in real-time. The SO runs its power applications like load flow and dynamics and contingency analysis as well to be guided on the estimated value.</p> <p>Mr. Olmedo responded that the MO opted to use real-time data instead of the state estimator as the latter is currently being developed and would also require provisions of complete data set from the SO. He expounded that based on their discussion with the NMMS vendor, for the MO to have a fully functioning state estimator, data beyond the megawatt and megavar analog values is needed, which is currently not present. Mr. Rosales agreed with the statement of Mr. Olmedo that to run the state estimator, the true model of the system must be modelled. He stated that the SO data and of the generators have already been</p>



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	<p>modeled. The missing model is that of the distribution network, especially those large distribution utilities. These missing distribution network models pose challenge in running the state estimator, which makes it unable to produce the nearest state of the real-time system. This also results to a huge difference in the output of the solution. He also posited that MO's state estimator must be used as it is included in the new system bought for the market.</p> <p>Mr. Gumalal asked if the MO is currently using erroneous data in instances where the TP is providing erroneous data and the fact that NGCP could no longer correct it being a real-time data fetched by the MO. Mr. Bugaoisan, Jr. answered that in the given case, manual inputting is being done by the dispatcher. If this happens in the five (5) minute interval, it would be burdensome for the dispatcher. Further, Mr. Gumalal inquired if manual inputting can be realistically done under the five (5) minute interval to which Mr. Bugaoisan, Jr. responded to be their major concern. Mr. Gumalal opined that if this scenario happens, it would be prudent to use temporarily the MO's state estimator and ultimately fix the problematic RTUs. Mr. Bugaoisan, Jr. agreed to the opinion of Mr. Gumalal and continued that is their proposal for the MO to make its state estimator functional.</p> <p>In addition, Mr. Rosales illustrated the steps undertaken by the dispatcher during the manual encoding. He said that the dispatcher will use the SCADA system and update every single generator every five (5) minutes. The encoding for one generating unit takes time and before it is done, another interval has already lapsed. In the end, the SO will be blamed for the erroneous data for the five (5) minute interval. He said that they were able to perform manual encoding in the hourly interval, but it would be difficult for them to do same in the five (5) minute interval. Therefore, the tripartite resolution is important in this case to resolve the data inaccuracy.</p> <p>Mr. Claudio commented that the data provided should be acceptable to MDOM on the side of the MO since this is the rationale for removing the gate closure. He also opined that this problem happens only if the SO and the MO are separate entities, and that state estimation happens in the SO side and not</p>

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	<p>in the MO side in other electricity markets like California Independent System Operator (CAISO).</p> <p>Mr. Ryan Morales (Distribution) asked about the frequency of occurrence of this error, and who will be responsible for estimating errors. He opined that the latter is crucial because it involves payment. Also, he suggested agreeing on a formula like averaging or similar estimation if the occurrence of this error is seldom instead of using the complicated tool of state estimator. In this suggestion, he explained that there is no need for either party to take responsibility on who should perform state estimation.</p> <p>Mr. Rosales added that the MO can use the day-ahead data for scheduled generation to come-up with an RTD schedule. In this case, there would be no need for the SO to manually input the data, and for the MO to run the state estimator. He also agreed with the suggestion of Mr. Morales to use metering data in settlement.</p> <p>Mr. Olmedo opined that the suggestions are only applicable for loads. He elucidated that the provision is about real-time data scheduling and realistic dispatch implementation. He also stated that the MO does not use real-time data but revenue meter data in settlement. The real-time data is used to project if the generator is capable to arrive at a certain interval given their offer and ramp limitations. Aside from this, there are also breaker statuses, which provide for the power system topology to come-up with a more accurate RTD. In other words, the MO does not use analog data alone. He emphasized that IEMOP's comment aims that the efforts of all entities, including the network service providers be gathered to attain a higher level of accuracy. For less accurate data, the earlier suggestions may be employed, but the main objective of the original provision is to get the more accurate data.</p> <p>Considering the disagreement between the MO and SO, Chairperson De Castro inquired from the body if the discussion on the provision be deferred until such time that the MO and SO has come to an agreement after their separate discussion. The body interposed no objection to the deferment.</p>



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	<ul style="list-style-type: none"> On Section 6.1.1, Mr. Bugaoisan, Jr. explained that they wanted other types of market resources such as flywheel and hybrid systems, be included in the modelling of Battery Energy Storage System and Pumped Storage System. Mr. Olmedo responded that the inclusion of those is not necessary since these are not included in the WESM Rules. However, these resources may be included as soon as they are introduced in the WESM Rules, as provisions on how these resources should be treated must be first established. <p>The body adopted to retain IEMOP's proposal.</p> <ul style="list-style-type: none"> On Section 6.4.5, Mr. Bugaoisan, Jr. stated that their comment is for the consistent monitoring of net generation of the plant as there are discrepancies monitored with SO's model. In response, Mr. Olmedo explained that the Market Trading Node (MTN) was redefined back in 2018 or 2019, such that it is the location where the revenue meter is located. Previously, MTN had been synonymous with market resource where scheduling occurs. To delineate the location of the revenue meter, it is the MTN that is located in the asset boundary. The scheduling point is the location where the market resource is being modelled. He continued that the objective of the proposal is for clarity since there are generators registering based on their gross capability or output net of station use that is being certified by the ERC. Upon registration to commercial operations, it is cleared if the monitoring to be used is based on the gross output of the generator or output net of station use. These are communicated to SO for purposes of monitoring and to PEMC-Enforcement and Compliance (ECO). Each generating unit's declared capability must be consistent from registration up to scheduling and pricing. Considering the definitions, the process of execution with the SO is not uniform as it is dependent upon the value in the generator's COC being approved by the regulator, whether it is gross capability or output net of station use. <p>Mr. Bugaoisan, Jr. inquired if there were efforts to make the declarations in the generator's Certificate of Compliance (COC) uniform. Mr. Olmedo replied that the matter had already been escalated to the ERC in 2019 and 2020, and they will again manifest their intention to make it uniform for all generating units.</p>



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	<ul style="list-style-type: none"> Section 3.2.3, the newly introduced provision of IEMOP was adopted. <p>Having no further comments or questions, Mr. Castro Jr. moved for the approval of the proposal, as amended, which was duly seconded by Mr. Rosales. The motion was approved and adopted by the body.</p> <p><u>Resolution:</u></p> <p>The RCC approved the proposal, as amended. The looping example requested will be submitted by IEMOP within the day and the corresponding resolution to be endorsed to the PEM Board shall be reviewed for approval by the body in the next meeting.</p> <p>The meeting temporarily adjourned at 12:10 PM and was called to order again at 12:50 PM by Mr. Castro as the Presiding Officer.</p>
<p>5.7. Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures (ORCP-WR-WM-21-07)</p>	<p><u>Presenters (IEMOP-proponent):</u> Mr. Edward I. Olmedo Ms. Valfia U. Gregorio</p> <p><u>Action Requested:</u> For discussion and approval to endorse to the PEM Board</p> <p><u>Meeting Materials:</u> Annex C - Matrix of Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures</p> <p><u>Proceedings:</u></p> <p>Ms. Cruz introduced the invited representatives of the entities that submitted comments to the proposal. These entities are the Aboitiz Power Corporation (APC), SPC Power Corporation (SPC), and Technical Committee (TC). Mr. Castro acknowledged the virtual attendance of the guests and then asked for the background and objectives of the proposal before the line-by-line review of the proposal matrix. Ms. Cruz stated that the proposal has been the subject of an urgent amendment for the implementation of the enhanced WESM design and operations, which was approved by the PEM Board on 31 March 2021. The proposal is the result of IEMOP's trial operations for the launching of the enhanced WESM design.</p>

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	<p>Highlights of the deliberation are as follows:</p> <ul style="list-style-type: none"> • <i>WESM Rules</i> <ul style="list-style-type: none"> ○ On Section 3.8.2, Mr. Rosales commented that the dispatch instructions report covers all the instructions of the System Operator not only for monitoring purposes of non-compliance. He noted that the dispatch deviation report also includes the dispatch instruction. He opined that dispatch instruction report is generic and it is not related to what is needed and could be overwhelming on the part of the recipient. Thus, he is proposing to retain the term “dispatch deviation report”. <p>Mr. Olmedo explained that the proposal was drafted before the transition to the five (5) minute operations and it was agreed with the SO to do away with the deviation report because the responsibility to report the issues to PEMC-ECO should be the responsibility of that plant. He also stated that the content of the dispatch instruction report as proposed specifically includes ancillary services, Merit Order (MOT), and Must-Run Unit (MRU). Mr. Rosales asked if the report is currently submitted as proposed, to which Mr. Olmedo confirmed.</p> <p>The body approved the provision as proposed.</p> <ul style="list-style-type: none"> ○ On APC’s comment in Section 3.8.3.4, Mr. Claudio commented that Contingency Reserves (CR) and Dispatchable Reserves (DR) are not frequency regulation services. CR is used for contingency events whenever a plant trips to arrest the frequency declines and to stabilize the frequency to a level where the Regulating Reserves (RR) takes over and restore the frequency to a nominal value of 60 Hz. Therefore, CR is not used for RR service. When a contingency happens and the required CR is no longer available, it can result to automatic load dropping and, in worst case, to system blackout. Hence, CR should not be used for regulation service. If there is mismatch in load and generation in real-time, the first to be used is RR, and if the RR is depleted, the MOT is next to be used and MRU as the last. Mr. Rosales concurred to the explanation of Mr. Claudio and opined that TPs have the responsibility to reflect immediately their capacity changes to address the event in the next dispatch interval and that the frequency regulation reserve should not be exhausted.

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	<p>Mr. Richard O. Arcenal (SPC) stated that based on their understanding and as stated in the Grid Code, MRU is only used after exhaustion of the reserves. Since SO contracts for reserves, then those reserves are used before the MRU.</p> <p>Mr. Claudio clarified that the reserve to be depleted is only the regulating reserve. The CR and DR should not be depleted to correct a small frequency deviation in real time. It is only used for purposes as earlier mentioned. Mr. Olmedo agreed with the statement of Mr. Claudio and Mr. Rosales.</p> <p>Adding to the discussion, Mr. Rosales opined that to accommodate the must-dispatch unit, adjustment should be made in the MOT and not in the frequency regulation. While frequency regulation is dynamic and it automatically responds, it should not be allowed in the manual for the regulation reserves to be exhausted before doing the next steps. He illustrated that if the must-dispatch unit has a 50MW generation deviation, a generator in the MOT should be constrained also by 50MW and need not exhaust the ancillary reserve. This scenario results to an event where the ancillary reserve is being paid and at the same time the excess generation is being accommodated, which results to double payment. Thus, he suggested to replace the frequency regulation to MOT.</p> <p>Mr. Claudio disagreed to the suggestion of Mr. Rosales and posited that the regulation reserve should be first used before the MOT since regulation reserve providers are paid to regulate system frequency to address the mismatches in generation and load when there is a sudden increase or decrease in the generation due to in the entry or exit of must-dispatch generation. When the regulation reserve is at zero (0) should be the correct event when to resort to MOT since generators on MOT are not paid for regulating system frequency, which is the function of the regulation reserve provider.</p> <p>Mr. Rosales disagreed to the statement of Mr. Claudio clarifying that the regulation reserve has other uses like power quality and maintenance of frequency, which is also being paid for by the consumers. He opined that the exhaustion of regulating reserves is only made to accommodate the must-dispatch units, which</p>



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	<p>defeats the other purposes of regulation reserves. He reiterated his suggestion that the frequency regulation is the first to respond to the deviation to be followed by the issuance of dispatch instruction in reference to the MOT, so that the generator would be aware of the reason that they are being constrained-off to accommodate the must-dispatch. He also added that the provision should be clear that the frequency regulation should not be exhausted because to do so would sacrifice the power quality of the grid.</p> <p>Mr. Olmedo clarified that their proposal is just to clarify the term in terms of the type of reserve as used in the relevant DOE Department Circular. If the provision will be reworded such that the frequency regulation should not be exhausted, it will be inconsistent with the DOE DC directing for the exhaustion of ancillary reserves. Mr. Rosales inquired if the subject DOE DC refers to must-dispatch unit or to MRU. Mr. Olmedo responded that the DOE DC is applicable to all types of generators. He also suggested that the provision be reworded subject to the concurrence of all parties.</p> <p>The body agreed to defer the discussion of the provision to next meeting.</p> <ul style="list-style-type: none"> • <i>WESM Manual on Dispatch Protocol Issue 13.2</i> <ul style="list-style-type: none"> ○ On Section 2.1.2 (Definition of Terms), Mr. Rosales sought for clarification and confirmation if the terms are correspondingly replaced as follows: <ul style="list-style-type: none"> ○ Primary Reserve to Contingency Reserve ○ Secondary Reserve to Regulating Reserve ○ Tertiary Reserve to Dispatchable Reserve <p>Mr. Olmedo confirmed the corresponding replacement terms and stated that it was based on DOE DC 2019-12-0018.</p> <p>On the Automatic Generation Control (AGC), Mr. Olmedo explained that they have two (2) options for the use of AGC. First is to respond to a changing system frequency or to meet the target loading level since it is being proposed that the generator can opt to interface with the SO using AGC for energy and re-dispatch. Mr. Rosales agreed with the definition of IEMOP as explained by Mr. Olmedo.</p>



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	<p>Mr. Virgilio Fortich, Jr. inquired if the “control” in AGC is a device subject to calibration. Mr. Rosales answered in the affirmative and said that it is being tested regularly to determine if it needs to undergo fine-tuning.</p> <p>The body adopted IEMOP’s proposal.</p> <ul style="list-style-type: none"> ○ On Section 7.10.2, Mr. Olmedo explained that the proposed wording came from SO because of their internal audit. ○ On Section 11.1.3, Mr. Rosales asked if there will be a need to issue a dispatch instruction from SO if the generating unit is operating on Automatic Generation Control (AGC) considering the 5-minute interval where the SO will have no opportunity to make calls to the TP. Mr. Olmedo clarified that if the command is coming from the SO or its facilities, it is termed as dispatch instruction. It is further detailed in the proposed Section 11.1.4 that the TP shall comply with the dispatch instructions issued by the SO through their facilities for AGC, based on the dispatch target determined by the MO for each dispatch interval. Mr. Rosales opined that the provision is not clear since there should be no dispatch instruction for AGC due to its automation. Mr. Olmedo explained that in other jurisdiction that they have looked into, generators on AGC still has to follow certain set of compliance despite automation because they have to maintain the facility on their end so that they would be able to comply with the commands sent to them. <p>Mr. Rosales said that the wordings of Section 11.1.3 can be interpreted that SO will not provide a dispatch instruction for AGC. However, in Section 11.1.4, it requires the SO to issue dispatch instructions for compliance of TP, which is contrary to Section 11.1.3. Therefore, he opined that original Section 11.1.3 be retained and no longer include the new Section 11.1.4. He also suggested that the provision be revisited later since there is no generating unit yet on AGC, which Mr. Olmedo assented to.</p> <p>The body agreed to retain the original provision of Section 11.1.3 and not to adopt the new Section 11.1.4.</p>



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	<p>Upon the request of the Secretariat and with the approval of the body, the discussion was deferred to give way to the next priority agenda.</p> <p><u>Resolution:</u></p> <p>The RCC will continue the deliberation of proposal in the next meeting.</p>
VI. New Business	
<p>6.1. Proposed General Amendments to WESM Manual on Billing and Settlement on Harmonization with ERC Decision on Case No. 2017-042RC (Additional Compensation) (ORCP-WM-21-09)</p>	<p><u>Presenters (IEMOP-proponent):</u> Ms. Valfia U. Gregorio</p> <p><u>Action Requested:</u> For approval to publish for comments</p> <p><u>Meeting Materials:</u> Annex D – Summary of Proposal regarding Harmonization with ERC Decision on Case No. 2017-042RC</p> <p><u>Proceedings:</u></p> <ul style="list-style-type: none"> • Ms. Gregorio stated that the proposal was previously submitted as an urgent amendment on 16 April 2021 and approved by the RCC on 23 April 2021. The PEM Board approved it on 28 April 2021. The submission is a re-filing of a general amendment version in accordance with the Rules Change Manual. <p>The rationale of the proposal is to harmonize the WESM Manual on Billing and Settlement with ERC directives on additional compensation process and to provide details to its implementation. The amendment reflecting the directive in the Dispatch Protocol Manual is already included in the Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures (ORCP-WR-WM-21-07).</p> <p>The additional compensation processes under the Billing and Settlement Manual are affected by the procedures added by the ERC in its decision approving the Price Determination Methodology for the enhanced WESM design and operations. The changes to the processes are as follows:</p> <p>A) Conditions for Additional Compensation</p> <ul style="list-style-type: none"> ○ Conditions were added for additional compensation when Price Mitigation Measure or Secondary Price Cap (SEC) is

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	<p>applied, and when there is price separation due to congestion (PSM), in particular for constrained-on units.</p> <p>B) Claiming and Approving Additional Compensation</p> <ul style="list-style-type: none"> o Claims related to PSM and SEC is added fourteen (14) working days after resumption/designation. o Deadline for submitting supporting documents was added, in particular, sixty (60) calendar days after claim. o Deadline for approval of claims for PSM is added fourteen (14) working days upon receipt of complete documents, and thirty (30) calendar days after claim for SEC. o The effect of inaction on the claim filed is deemed approved and the generator may raise dispute. <p>C) Supporting Documents for Claiming Additional Compensation</p> <ul style="list-style-type: none"> o Added that the certified correct fuel consumption and inventory report is for MRU, AP and MOT, and that the requirement for SEC and PSM is the actual fuel consumption and inventory report. These documents should be duly certified by the Vice President of Finance of the power plant applying for additional compensation. <p>D) Quantity Eligible for Additional Compensation</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">FEATURE</th> <th style="text-align: center;">SEC</th> <th style="text-align: center;">AP</th> <th style="text-align: center;">PSM</th> <th style="text-align: center;">MOT</th> </tr> </thead> <tbody> <tr> <td>ADDITIONAL COMPENSATION QUANTITY</td> <td colspan="4" style="text-align: center;">If [GESQ] > [SG + Deviation], SG - BCQ - ASIE otherwise, GESQ - BCQ - ASIE</td> </tr> <tr> <td>ACTUAL GENERATION</td> <td colspan="4" style="text-align: center;">GESQ</td> </tr> <tr> <td>SCHEDULED GENERATION (SG)</td> <td style="text-align: center;">Equivalent energy of linear compliance to RTD or SO instruction</td> <td style="text-align: center;">Equivalent energy of linear compliance to most recent RTD or SO instruction</td> <td style="text-align: center;">Equivalent energy of linear compliance to RTD or SO instruction</td> <td style="text-align: center;">Equivalent energy of linear compliance to SO instruction</td> </tr> <tr> <td>SO INFORMATION</td> <td colspan="4" style="text-align: center;">Dispatch Interval, Target MW</td> </tr> <tr> <td>DEVIATION REFERENCE</td> <td colspan="4" style="text-align: center;">Dispatch Instruction Report</td> </tr> <tr> <td>ELIGIBLE TRADING PARTICIPANTS</td> <td style="text-align: center;">Oil-based plants</td> <td style="text-align: center;">All</td> <td style="text-align: center;">Constrained-on plants</td> <td style="text-align: center;">All</td> </tr> </tbody> </table> <p>E) Cost Recovery of Additional Compensation</p>	FEATURE	SEC	AP	PSM	MOT	ADDITIONAL COMPENSATION QUANTITY	If [GESQ] > [SG + Deviation], SG - BCQ - ASIE otherwise, GESQ - BCQ - ASIE				ACTUAL GENERATION	GESQ				SCHEDULED GENERATION (SG)	Equivalent energy of linear compliance to RTD or SO instruction	Equivalent energy of linear compliance to most recent RTD or SO instruction	Equivalent energy of linear compliance to RTD or SO instruction	Equivalent energy of linear compliance to SO instruction	SO INFORMATION	Dispatch Interval, Target MW				DEVIATION REFERENCE	Dispatch Instruction Report				ELIGIBLE TRADING PARTICIPANTS	Oil-based plants	All	Constrained-on plants	All
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	<div data-bbox="592 456 1508 750" data-label="Diagram"> <pre> graph TD A[Compute total AddComp Amount] --> B[Allocate to Customers based on GESQ] B --> C{Is rate impact >P0.005/kWh?} C -- YES --> D[Charge in next billing period only] C -- NO --> E[Charge in next four (4) billing periods] F[For indirect customers, charge to current Direct WESM Member] -.-> D F -.-> E </pre> </div> <p data-bbox="580 768 1508 913">Having no further comments or questions, Mr. Fortich Jr. moved for the approval to post the proposal in the PEMC website for comments, which was duly seconded by Mr. Castro, Jr. The body approved and adopted the motion.</p> <p data-bbox="580 960 1471 1028"><u>Resolution:</u> The RCC approved the posting of the proposal in PEMC website to call for comments.</p>
<p data-bbox="108 1077 475 1149">6.2. RCC Semestral Report (January to June 2021)</p>	<p data-bbox="580 1077 1225 1111"><u>Presenter:</u> Ms. Divine Gayle C. Cruz (Secretariat)</p> <p data-bbox="580 1155 1145 1189"><u>Action Requested:</u> For review and approval</p> <p data-bbox="580 1234 754 1267"><u>Proceedings:</u></p> <p data-bbox="580 1312 1471 1420">Ms. Cruz presented the draft RCC Semestral Report and addressed the offline comments received from Ms. Tanglao. She noted that the deadline for submitting it to the PEM Board is on 30 July 2021.</p> <p data-bbox="580 1464 1054 1498">Highlights of the draft are as follows:</p> <ul data-bbox="679 1543 1517 1962" style="list-style-type: none"> ○ Twenty-seven (27) RCC Resolutions were endorsed by the PEM Board to the DOE and six (6) of which have already been promulgated. ○ Six (6) remanded proposals were received and processed by the RCC, which is a new section in the report. ○ There is no update yet on the discussion between IEMOP and DOE regarding the inconsistencies in the proposed timeline for the Metering Service Providers to submit correct meter data between the proposed amendments on validation timeline adjustment in metering and billing and the previously endorsed proposal. <p data-bbox="580 2007 730 2040"><u>Resolution:</u></p>



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	<p>Other RCC members may still submit comments until 21 July 2021. Final approval of the report will be sought <i>via</i> Viber.</p>
<p>VII. Next Meeting</p>	
<p>Schedule of Meetings</p>	<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 the schedules of the following meetings:</p> <ul style="list-style-type: none"> • RCC will hold a Special Meeting on 23 Jul 2021 (AM only) to discuss the following deferred items: <ul style="list-style-type: none"> ○ PEM Board-Approved Proposed Amendments to the WR and WM on Information Disclosure and Confidentiality re Exceptions for Confidentiality Undertakings for Oversight Bodies (DOE-Remanded Proposal) ○ Proposed Amendments to the WESM Registration Manual for General Enhancements to the Application Process of New WESM Members in consideration of DOE DC2021-06-0013 (Adopting a General Framework Governing the Test and Commissioning of Generation Facilities) ○ Issue on Indirect WESM Membership ○ MRU Rules Effectiveness Study • RCC Regular Meetings: <ul style="list-style-type: none"> ○ 20 Aug 2021 ○ 17 Sep 2021 ○ 15 Oct 2021 • Annual General Membership Meeting (AGMM) – 21 July 2021, Wednesday
<p>VIII. Adjournment</p>	<p>The meeting was adjourned at 03:14 PM, with 14 principal members and 2 alternate members present.</p>



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Prepared by:

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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:

MAILA LOURDES G. DE CASTRO
Chairman, Independent

FRANCISCO LEODEGARIO R. CASTRO, JR.
Member, Independent

ALLAN C. NERVES
Member, Independent

CONCEPCION I. TANGLAO
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)

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

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



MEETING MINUTES

Subject/Purpose : 181st Rules Change Committee Meeting
Date & Time : 16 July 2021, 09:07
Venue : Online via Microsoft Teams
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RICARDO G. GUMALAL
Member, Distribution Sector
Iligan Light and Power, Inc. (ILPI)



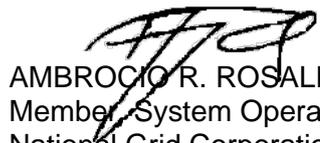
MELSON M. DELA CRUZ
Member, Distribution Sector
Nueva Ecija II Area 1 Electric Cooperative, Inc.
(NEECO II – Area I)



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



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



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



Annex A – Matrix of Further Amendments to the WESM Rules and New WESM Compliance Officers (WCO) Accreditation and Certification Manual

A. WESM Rules (As amended by DOE DC 2020-10-0021)

Title	Section	Original Provision	Provision on RCC Resolution 2019-19	Further Amendments (2021 Version)	Rationale
Compliance Committee	1.8				
Responsibilities of the Compliance Committee	1.8.2	<p>The <i>Compliance Committee</i> shall from time to time as necessary and as appropriate, or whenever the Governance Arm, through the PEM Board, directs:</p> <p>(a) Review reports of investigation of breaches of the WESM Rules and Market Manuals carried out by the Enforcement and Compliance Office and, based on the results of such investigation, decide on the outcomes of the investigation and recommend imposition of sanctions or penalties if warranted;</p> <p>(b) Review and monitor the compliance of Enforcement and Compliance Office with the reportorial requirements pursuant to the WESM Rules, Market Manuals, and other applicable laws, rules, regulations, or issuances;</p> <p>(c) Review and monitor the compliance by the Market Operator and the System Operator with their obligations pursuant to the WESM Rules and Market Manuals, or any coordinating</p>		<p>The <i>Compliance Committee</i> shall from time to time as necessary and as appropriate, or whenever the Governance Arm, through the PEM Board, directs:</p> <p>(a) Review reports of investigation of breaches of the WESM Rules and Market Manuals carried out by the Enforcement and Compliance Office and, based on the results of such investigation, decide on the outcomes of the investigation and recommend imposition of sanctions or penalties if warranted;</p> <p>(b) Review and monitor the compliance of Enforcement and Compliance Office with the reportorial requirements pursuant to the WESM Rules, Market Manuals, and other applicable laws, rules, regulations, or issuances;</p> <p>(c) Review and monitor the compliance by the Market Operator and the System Operator with their obligations pursuant to the WESM Rules and Market Manuals, or any coordinating or operating agreements, or protocols</p>	To include as one of the responsibilities of the Compliance Committee

Annex A – Matrix of Further Amendments to the WESM Rules and New WESM Compliance Officers (WCO) Accreditation and Certification Manual

		<p>or operating agreements, or protocols which may be established governing the performance of their functions and obligations under the WESM Rules and Market Manuals.</p> <p>(d) Propose amendments to the WESM Rules or Market Manuals in accordance with Chapter 8 with a view of:</p> <p>(i) Improving the efficiency and the effectiveness of the operation of the WESM; and</p> <p>(ii) Improving or enhancing the prospects for the achievement of the WESM objectives;</p> <p>(e) Assist the Rules Change Committee in relation to its assessment of proposals to amend the WESM Rules or Market Manuals under Chapter 8.</p>		<p>which may be established governing the performance of their functions and obligations under the WESM Rules and Market Manuals.</p> <p><u>(d) Review and approve the guidelines for the WESM Compliance Officers' competency standards and certification program</u></p> <p>(d) Propose amendments to the WESM Rules or Market Manuals in accordance with Chapter 8 with a view of:</p> <p>(i) Improving the efficiency and the effectiveness of the operation of the WESM; and</p> <p>(ii) Improving or enhancing the prospects for the achievement of the WESM objectives;</p> <p>(e) Assist the Rules Change Committee in relation to its assessment of proposals to amend the WESM Rules or Market Manuals under Chapter 8.</p>	<p>the review and approval of the competency standards and the guidelines for the WCO certification program.</p> <p>For check and balance. Governance Arm to establish the standards guidelines; CC to review and approve them.</p>
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<p>Scope of Chapter 7</p>	<p>7.1</p>	<p>In line with the principles of self-governance, expeditious, just and least expensive disposition of disputes and considering the continuous nature of the transactions and operations of the WESM, this chapter sets out:</p> <ul style="list-style-type: none"> (a) The responsibilities for ensuring that all WESM members comply with the WESM Rules; (b) The procedures on how the alleged breaches will be dealt with including: <ul style="list-style-type: none"> (1) The correct party to whom notice of an alleged breach of the WESM Rules by a WESM member shall be given; (2) The manner in which an alleged breach is to be investigated; (3) The manner in which a breach is to be sanctioned; (c) Other provisions on how disputes are to be resolved; and (d) The appointment of an Enforcement and Compliance Officer, a Dispute Resolution Administrator and selection of mediators and arbitrators that shall form part of the arbitration panel. 	<p>In line with the principles of self-governance, expeditious, just and least expensive disposition of disputes and breaches of the WESM Rules or Market Manuals and considering the continuous nature of the transactions and operations of the WESM, this chapter sets out:</p> <ul style="list-style-type: none"> (a) The responsibilities for ensuring that all WESM Members comply with the WESM Rules; (b) The process for enforcement of the WESM Rules and Market Manuals including: <ul style="list-style-type: none"> (i) The procedures and responsibilities for carrying out enforcement proceedings, including the monitoring of compliance with the WESM Rules and Market Manuals, investigation of probable breach, and imposition of sanctions; and (ii) the enforcement actions that can be taken as consequences of a breach, and the procedures and responsibilities for imposing and implementing the same; (c) Other provisions on how disputes are to be resolved; and 	<p>In line with the principles of self-governance, expeditious, just and least expensive disposition of disputes and considering the continuous nature of the transactions and operations of the WESM, this chapter sets out:</p> <ul style="list-style-type: none"> (a) The responsibilities for ensuring that all WESM members comply with the WESM Rules; (b) The procedures on how the alleged breaches will be dealt with including: <ul style="list-style-type: none"> (1) The correct party to whom notice of an alleged breach of the WESM Rules by a WESM member shall be given; (2) The manner in which an alleged breach is to be investigated; (3) The manner in which a breach is to be sanctioned; (c) Other provisions on how disputes are to be resolved; and (d) The appointment of an Enforcement and Compliance Officer, a Dispute Resolution Administrator and selection of mediators and arbitrators that shall form part of the arbitration panel. (e) <u>The designation and accreditation certification</u> 	<p>Note: The provisions which are different from the current WESM Rules but which are not highlighted here (are covered in the other proposals relating to Enforcement and Compliance Manual which are still pending with the DOE)</p> <p>Change in terminology (from “accreditation/ accredited” to certification/certified”</p> <p>To align with the conceptual change, as proposed by DOE.</p>
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			<p>(d) The appointment of an Enforcement and Compliance Officer, a Dispute Resolution Administrator and selection of mediators and arbitrators that shall form part of the arbitration panel; and</p> <p><u>(e) The designation and accreditation of the WESM Compliance Officers.</u></p>	<p><u>and registration of the WESM Compliance Officers.</u></p>	
ENFORCEMENT	7.2				
ENFORCEMENT	7.2.9	Designation of a Compliance Officer for WESM Member, Market Operator and System Operator			
	7.2.9.1	Each WESM Member, the Market Operator, the System Operator, Metering Service Provider and any other WESM Service Providers shall designate a Compliance Officer in their respective organizations.	<p>7.2.9.1 All WESM Members, and the Market Operator shall designate a WESM Compliance Officer in their respective organizations; Provided that the person so appointed should have an understanding of the WESM compliance requirements of his or her organization and occupies a senior management position in the organization that he or she is able to recognize possible non-compliances and has sufficient authority to resolve the same. <u>Furthermore, said WESM Compliance Officer shall undergo an accreditation program to be administered by PEMC.</u></p> <p><u>For this purpose, PEMC shall:</u></p> <p><u>(a) In consultation with the WESM Members and the</u></p>	<p>7.2.9.1 All WESM Members, and the Market Operator shall designate a WESM Compliance Officer in their respective organizations; Provided that the person so appointed should have an understanding of the WESM compliance requirements of his or her organization and occupies a senior management position in the organization that he or she is able to recognize possible non-compliances and has sufficient authority to resolve the same. <u>Furthermore, said WESM Compliance Officer shall undergo an accreditation program to be administered by PEMC—the Market Operator and the Governance Arm.</u></p> <p><u>For this purpose, PEMC the Governance Arm shall:</u></p>	<p>Change in terminology (from “accreditation/ accredited” to certification/certified”</p> <p>For consistency with the conceptual change, as proposed by the DOE, i.e., IEMOP and PEMC may provide training services.</p> <p>Change in terminology</p> <p>Change in terminology</p>

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			<p><u>Market Operator, develop and establish the necessary program and guidelines for the accreditation of the WESM Compliance Officers with the end in view of attaining a higher level of compliance with their obligations in the WESM and keeping them informed of their company’s obligations in the market and any market developments.</u></p> <p>(b) <u>Create an Accreditation Body, composed of members independent of the Philippine electric power industry and the Government and in such number and with such skills and expertise deemed necessary who shall be responsible for the following:</u></p> <p>i) <u>implementing an accreditation program for all WESM Compliance Officers;</u></p> <p>ii) <u>recommending or establishing the competency standards; and accrediting or reviewing the compliance of all WESM Compliance Officers with the accreditation</u></p>	<p>(a) <u>In consultation with the WESM Members and the Market Operator, develop and establish the necessary program and guidelines for the accreditation certification of the WESM Compliance Officers with the end in view of attaining a higher level of compliance with their obligations in the WESM and keeping them informed of their company’s obligations in the market and any market developments.</u></p> <p>(a) Create an Accreditation Body, composed of members independent of the Philippine electric power industry and the Government and in such number and with such skills and expertise deemed necessary who shall be responsible for the following:</p> <p>i) implementing an accreditation program for all WESM Compliance Officers;</p> <p>ii) recommending or establishing the competency standards; and accrediting or reviewing the compliance of all WESM Compliance Officers with the accreditation program</p>	<p>For consistency with the conceptual change, as proposed by the DOE, i.e., removal of the WCO Accreditation Body. The functions will instead be performed by the Governance Arm.</p>
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Annex A – Matrix of Further Amendments to the WESM Rules and New WESM Compliance Officers (WCO) Accreditation and Certification Manual

			<u>program referred to in the preceding paragraph.</u>	<u>referred to in the preceding paragraph:</u> <u>(b) Implement a certification program for all WESM Compliance Officers; and</u> <u>(c) Recommend or establish the competency standards for the WESM Compliance Officers.</u>	
	7.2.9.2	The Compliance Officer shall: (a) Monitor and undertake necessary activities to ensure the full compliance of their respective organization to the EPIRA, the EPIRA Implementing Rules and Regulations, WESM Rules, and the WESM Market Manuals; and develop necessary procedures and guidelines for this purpose. (b) From time to time, if the Compliance Officer deems it necessary or appropriate, propose policies or	7.2.9.2 The WESM Compliance Officer shall: (a) Monitor the activities and transactions in the WESM of his or her organization and carry out measures to ensure compliance with the EPIRA, its Implementing Rules and Regulations, the WESM Rules and Market Manuals; and put in place necessary procedures and guidelines for this purpose; (b) From time to time and if he or she deems it necessary or appropriate, propose amendments to the WESM Rules and WESM Market Manuals to enhance or	The Compliance Officer shall: (a) Monitor and undertake necessary activities to ensure the full compliance of their respective organization to the EPIRA, the EPIRA Implementing Rules and Regulations, WESM Rules, and the WESM Market Manuals; and develop necessary procedures and guidelines for this purpose. (b) From time to time, if the Compliance Officer deems it necessary or appropriate, propose policies or	Proposed to be transferred to the last item under (e)

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		<p>amendments to the WESM Rules and/or WESM Market Manuals to enhance or develop the WESM enforcement and compliance, with the objective of promoting good commercial and technical practices.</p> <p>(c) Be responsible in facilitating and coordinating with the WESM Enforcement Compliance Office (ECO), all matters relating to the enforcement and compliance of their respective organization, including the provision of the necessary information and data, as may be required by any of the WESM Governance Committees and by the ECO.</p> <p>(d) Submit a report to the ECO concerning their respective organization's compliance with WESM Rules and WESM Market Manuals on an annual basis or as may be determined by the ECO or any of the WESM Governance Committees.</p>	<p>develop the WESM enforcement and compliance and to promote good commercial and technical practices;</p> <p>(c) Be responsible in coordinating with the Enforcement Compliance Office (ECO), on all matters relating to the WESM enforcement, compliance and governance, including the provision of the necessary information and data, as may be required by any of the WESM Governance Committees and by the Enforcement and Compliance Office; and</p> <p>(d) Submit to the Enforcement and Compliance Office a report of his or her organization's compliance with WESM Rules and Market Manuals covering such period, but not less frequent than annually, and in such form as may be prescribed by the Enforcement and Compliance Office; and</p> <p><u>(e) Undergo the accreditation process for WESM Compliance Officers.</u></p>	<p>amendments to the WESM Rules and/or WESM Market Manuals to enhance or develop the WESM enforcement and compliance, with the objective of promoting good commercial and technical practices.</p> <p>(c) Be responsible in facilitating and coordinating with the WESM Enforcement Compliance Office (ECO), all matters relating to the enforcement and compliance of their respective organization, including the provision of the necessary information and data, as may be required by any of the WESM Governance Committees and by the ECO.</p> <p>(d) Submit a report to the ECO concerning their respective organization's compliance with WESM Rules and WESM Market Manuals on an annual basis or as may be determined by the ECO or any of the WESM Governance Committees.</p> <p><u>(e) Undergo a certification process for WESM Compliance Officers;</u></p>	<p>Change in terminology (from "accreditation/ accredited" to certification/certified"</p>
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Annex A – Matrix of Further Amendments to the WESM Rules and New WESM Compliance Officers (WCO) Accreditation and Certification Manual

B. Proposed New WESM Manual on WESM Compliance Officers Certification and Registration Manual Issue 1.0

Title	Section	Provision on RCC Resolution 2019-19	Proposed Further Amendments (2021 Version)	Rationale
				<p>General Comment:</p> <p>Most of the revisions include:</p> <ul style="list-style-type: none"> • Re-arrangement of the order and sequence of some of the provisions of this proposed Manual • Merging of some provisions under one main section for clarity • Rewordings for clarity <p>Red font- proposed revisions by DOE Blue font- further revisions by PEMC</p>
Manual Title		WESM Compliance Officers (WCO) Accreditation Manual Issue No. 1.0	WESM Compliance Officers (WCO) Certification and Registration Manual Issue No. 1.0	Change in the terminology
PURPOSE OF THE ACCREDITATION	1.0		SECTION 1- PURPOSE OF THE ACCREDITATION MANUAL	Change in the terminology.
		1.1. This accreditation aims to provide the competency standards for all WESM Compliance Officers (WCO) by creating a program or mechanism that promotes continuous quality enhancement in the WCOs' performance of their compliance-related functions. This seeks to ensure that	1.1. This accreditation Manual aims to provide the competency standards for all WESM Compliance Officers (WCOs) by creating a program or mechanism that promotes continuous quality enhancement in the WCOs' performance of their compliance-related functions. It also seeks to ensure that WCOs are well-informed of all market	For clarity.

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Title	Section	Provision on RCC Resolution 2019-19	Proposed Further Amendments (2021 Version)	Rationale
		throughout their participation in the Wholesale Electricity Spot Market, WCOs are well-informed of all market rule developments and obligations.	rule developments and are compliant with their obligations throughout their participation in the Wholesale Electricity Spot Market.	
		1.2. It also seeks to establish effective leadership that will help promote WESM compliance within the organization.	1.2. It also seeks to establish effective leadership that will help promote WESM compliance within their organization.	
WESM ACCREDITATION BODY	2.0		SECTION 2 – WESM Accreditation Body RESPONSIBLE PARTIES	Removal of the WCO Accreditation Body The obligations will be performed instead by the WESM Governance Arm with modifications.
		2.1. Within two (2) months from the approval hereof, the WCO Accreditation Body shall be constituted in accordance with this Manual.	2.1. Within two (2) months from the approval hereof, the WCO Accreditation Body shall be constituted in accordance with this Manual.	Removal of the WCO Accreditation Body The obligations will be performed instead by the WESM Governance Arm with modifications.
		2.2. The WCO Accreditation Body shall be composed of three (3) members who shall be: 2.2.1. appointed by the PEM Board for a term of three (3) years; 2.2.2. independent of the Philippine electric power industry and the Government; 2.2.3. of proven probity and integrity; and 2.2.4. with relevant experience in the field of electricity market operations/ trading, energy facility operations or regulation and compliance in the energy sector. A person is deemed to be independent of the Philippine electric power industry if he/she	2.2. The WCO Accreditation Body shall be composed of three (3) members who shall be: 2.2.1. appointed by the PEM Board for a term of three (3) years; 2.2.2. independent of the Philippine electric power industry and the Government; 2.2.3. of proven probity and integrity; and 2.2.4. with relevant experience in the field of electricity market operations/ trading, energy facility operations or regulation and compliance in the energy sector. A person is deemed to be independent of the Philippine electric power industry if he/she meets the	Removal of the WCO Accreditation Body The obligations will be performed instead by the WESM Governance Arm with modifications.

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Title	Section	Provision on RCC Resolution 2019-19	Proposed Further Amendments (2021 Version)	Rationale
		meets the requirements set forth under WESM Rules Clause 1.4.2.7.	requirements set forth under WESM Rules Clause 1.4.2.7.	
		2.3. The WCO Accreditation Body shall be responsible for the following: 2.3.1 ensuring compliance with the WESM Rules on the designation of WCO; 2.3.2 establishing or reviewing the competency standards for the WCO; 2.3.3 implementing the accreditation program; 2.3.4 and accrediting or reviewing the compliance of all WCO with the requirements of the WCO Accreditation.	2.2. The WCO Accreditation Body shall be composed of three (3) members who shall be: 2.2.1. appointed by the PEM Board for a term of three (3) years; 2.2.2. independent of the Philippine electric power industry and the Government; 2.2.3. of proven probity and integrity; and 2.2.4. with relevant experience in the field of electricity market operations/ trading, energy facility operations or regulation and compliance in the energy sector. A person is deemed to be independent of the Philippine electric power industry if he/she meets the requirements set forth under WESM Rules Clause 1.4.2.7.	Removal of the WCO Accreditation Body The obligations will be performed instead by the WESM Governance Arm with modifications.
			<u>2.1 WESM Governance Arm</u> <u>The WESM Governance Arm shall be responsible for the following:</u> <u>2.1.1 Enforcing and ensuring compliance with the WESM Rules and this Manual on the registration of Certified WCOs by the WESM Members and the Market Operator.</u> <u>2.1.2 Registering the Certified WCOs designated by the WESM Member and the Market Operator.</u> <u>2.1.3 Establishing and reviewing the competency standards for the certification and registration of WCOs</u>	Removal of the WCO Accreditation Body The obligations will be performed instead by the WESM Governance Arm with modifications. The re-arrangement in the order of sections merging of some provisions under one section; and the revisions/changes or rewording in some of these provisions were made during the PEMC-DOE meetings/

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Title	Section	Provision on RCC Resolution 2019-19	Proposed Further Amendments (2021 Version)	Rationale
			<p><u>subject to the review and approval of the Compliance Committee.</u></p> <p>2.1.4 Developing and implementing the WCO certification program with the Market Operator and System Operator subject to the review and approval of the Compliance Committee.</p> <p>2.1.5 Reviewing Monitoring the compliance of all Registered WCOs with the requirements of the WCO Certification Guidelines.</p> <p>2.1.6 Providing lectures or trainings to the following:</p> <p>a) <u>Designated WCOs by the WESM Members; and</u></p> <p>b) <u>Registered WCOs by the WESM Members for purposes of renewal of their registration.</u></p> <p>2.1.7. Evaluating the WCO's submitted reports concerning their respective organization's compliance with the WESM Rules and WESM Manuals on an annual basis or as may be determined by the Enforcement and Compliance Office or any of the WESM Governance Committees. and the Compliance Committee.</p>	<p>workshops in August and October 2020.</p> <p>Review of the established standards and guidelines shall be made by the Compliance Committee for check and balance.</p> <p>Same as above.</p>

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Title	Section	Provision on RCC Resolution 2019-19	Proposed Further Amendments (2021 Version)	Rationale
			<p><u>2.2 WESM Members</u></p> <p><u>2.2.1 They shall be responsible for the registration of their respective WCOs in the WESM; Provided, that prior to registration, the designated WCO of the WESM Member shall pass the certification program as required in Section 3.1 hereof.</u></p> <p><u>In this regard, the Registered WCO byof the WESM Member shall:</u></p>	<p>Also added are the responsibilities of the WESM Members and the Market Operator.</p> <p>Certification shall precede the registration.</p> <p>Consistent with Section 7.2.9.2 of the WESM Rules</p> <p>Suggest adding these for completeness</p>

Annex A – Matrix of Further Amendments to the WESM Rules and New WESM Compliance Officers (WCO) Accreditation and Certification Manual

			<ul style="list-style-type: none"> a) <u>Monitor the activities and transactions in the WESM of his or her organization and carry out measures to ensure compliance with the WESM Rules and Market Manuals; and put in place necessary procedures and guidelines for this purpose;</u> b) <u>From time to time and if he or she deems it necessary or appropriate, propose amendments to the WESM Rules and WESM Market Manuals to enhance or develop the WESM enforcement and compliance and promote good commercial and technical practices;</u> c) <u>Be responsible in coordinating with the Enforcement and Compliance Office, on all matters relating to WESM enforcement, compliance and governance, including the provision of the necessary information and data, as may be required by any of the WESM Governance Committees and by the Enforcement and Compliance Office;</u> d) <u>Submit to the Enforcement and Compliance Office an annual report on his or her organization's compliance with the WESM Rules and Market Manuals in such form as may be prescribed by the Enforcement and Compliance Office; and</u> 	
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Title	Section	Provision on RCC Resolution 2019-19	Proposed Further Amendments (2021 Version)	Rationale
			<p>e) <u>Comply with the continuing certification requirements as set forth herein.</u></p>	
			<p><u>2.3 Market Operator</u></p> <p><u>2.3.1 The Market Operator shall be responsible for registration of registering its WCO in the WESM. The designated WCO of the Market Operator need not to undergo the certification program considering its expertise in the WESM.</u></p> <p><u>Similarly, the registered WCO by the Market Operator shall:</u></p>	<p>Clerical edit.</p> <p>WCO of the Market Operator is proposed to be exempted from the certification program in recognition of its expertise in the WESM. However, he/she is also responsible to perform the functions and obligations of WCO as provided in Section 7.2.9.2 of the WESM Rules. Also, he/she must have the same qualifications as provided in Section 3.1.2 of the proposed Manual</p>

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			<p>a) <u>Monitor the activities and transactions in the WESM of his or her organization and carry out measures to ensure compliance with the WESM Rules and Market Manuals; and put in place necessary procedures and guidelines for this purpose;</u></p> <p>b) <u>From time to time and if he or she deems it necessary or appropriate, propose amendments to the WESM Rules and WESM Market Manuals to enhance or develop WESM enforcement and compliance and promote good commercial and technical practices;</u></p> <p>c) <u>Be responsible in coordinating with the Enforcement and Compliance Office, on all matters relating to the WESM enforcement, compliance and governance, including the provision of the necessary information and data, as may be required by any of the WESM Governance Committees and by the Enforcement and Compliance Office; and</u></p> <p>d) <u>Submit to the Enforcement and Compliance Office an annual report of his or her organization's compliance with WESM Rules and Market Manuals in such form</u></p>	
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Title	Section	Provision on RCC Resolution 2019-19	Proposed Further Amendments (2021 Version)	Rationale
			<p><u>as may be prescribed by the Enforcement and Compliance Office.</u></p> <p><u>2.3.2 The Market Operator shall also provide lectures or trainings to the following:</u></p> <p>a) <u>Designated WCOs by the WESM Members; and</u></p> <p>b) <u>Registered WCOs by the WESM Members for purposes of renewal of their registration.</u></p>	
SUBJECT OF ACCREDITATION	3		<u>SECTION 3 - CERTIFICATION AND REGISTRATION PROCESS OF WCOs</u>	Proposed to focus on the process rather than the subject of the certification

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Title	Section	Provision on RCC Resolution 2019-19	Proposed Further Amendments (2021 Version)	Rationale
		<p>3.1 The accreditation is mandatory for all WCO as registered or nominated by the WESM Member. It is, however, optional, for WESM Enforcement Officers (WEO) and other officers who are directly or indirectly involved in the compliance-related activities of the company, including enforcement personnel under probation or apprenticeship with the company.</p>	<p><u>3.1 Certification</u></p> <p><u>3.1.1 The certification is mandatory for all individuals duly designated as WCO/s by the WESM Members. The WCO Certification shall be granted by the WESM Governance Arm to the designated WCO/s by the WESM Member after satisfying and completing the relevant lecture or training requirements in accordance with the WCO certification program adopted by the WESM Governance Arm.</u></p>	<p>The re-arrangement in the order or sequence of sections; and the revisions/changes or rewording in some of these provisions were made during the PEMC-DOE meetings/ workshops in August and October 2020.</p> <p>These provide further details on the certification and registration processes which combined the original Sections 3 and 4.</p> <p>Clerical edit (remove repetitive words)</p> <p>Note: the term WEOs is removed as they are covered by the term “Designated WCOs”</p>
		<p>3.2 In strict compliance with Clause 7.2.9 of the WESM Rules, each WESM Member, the Market Operator, the System Operator, Metering Service Provider and any other WESM Service Provider shall designate a WCO in their respective organizations. The aforesaid entities shall update the registration of their respective WCO in PEMC on or before the commencement of the compliance period as referred to in Section 5 hereof, and whenever there is a change in the WCO.</p>		<p>Transferred to 3.2.3 but reworded for clarity.</p>

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Title	Section	Provision on RCC Resolution 2019-19	Proposed Further Amendments (2021 Version)	Rationale
		Failure to comply with Clause 7.2.9 of the WESM Rules shall be dealt strictly by the WCO Accreditation Body.		
		3.3 A WCO nomination form shall, for this purpose, be developed by the WCO Accreditation Body which shall be used by the concerned entities in updating the registration referred to in the preceding section.	3.3—A WCO nomination form shall, for this purpose, be developed by the WCO Accreditation Body which shall be used by the concerned entities in updating the registration referred to in the preceding section.	Removed. This detailed procedure may be covered by the internal business process of the Governance Arm.
			<u>3.1.2. The WESM Members shall designate individual/s occupying senior management position such as those pertaining, but not limited, to legal, risk management, regulatory or compliance, to undergo certification program.</u> <u>For this purpose, senior management shall refer to a position in the company which carries with it the authority, capability, and responsibility to plan and direct the work of individuals or group of individuals, or make key decisions in an organization, either through employment or consultancy engagement or agreement.</u>	Transferred from Section 4.1 but reworded for clarity. Transferred from Section 4.1. No change in the definition of senior management

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			<p><u>3.1.3. Each designated WCO/s by the WESM Member must complete at least thirty-six (36) credit units of compliance lecture series or trainings. prior issued with a WCO certification.</u></p>	<p>Transferred from Section 4.4 but reworded. From 20 credit units to 36 credit units.</p> <p>Clerical edit.</p>
			<p><u>3.1.4 Upon conclusion of a lecture or training, the WESM Governance Arm or the Market Operator shall issue a Certificate of Completion to the designated WCO/s by the WESM Member identifying the time, date, location, subject matter and length of the activity and the number of credit units earned.</u></p>	<p>Transferred from Section 8.1 but reworded for clarity and consistency of the terminologies used in the Manual.</p>
			<p><u>3.1.5. The WESM Governance Arm shall maintain a database containing the list of all Certified WCOs, and Registered WCOs. Similarly, the training courses attended, and credit units earned shall also be reflected in the said database. The contents of the database shall be updated on a regular basis and indicate the compliance status of each WCO.</u></p>	<p>Transferred from Section 8.2 but reworded for clarity.</p> <p>Clerical edit</p>
			<p><u>3.1.6. The WESM Governance Arm shall, for this purpose, formulate the guidelines to effectively facilitate the information exchange and update the information of the Certified WCOs, and Registered WCOs.</u></p>	<p>Added - For the Governance Arm to develop more detailed internal business process for the effective implementation of the provisions of this Manual.</p>

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			<p><u>3.1.7. Certified WCOs who were not selected by their company as a Registered WCO in the WESM may undertake the certification program again for renewal purposes of their WCO Certification. In this regard, these Certified WCOs can be selected by their companies to be the latter's new Registered WCO for instances provided in Section 7 hereof.</u></p>	<p>Added - For continuing certification</p>
			<p><u>3.2 Registration</u></p> <p><u>3.2.1 In strict compliance with Clause 7.2.9 of the WESM Rules, all WESM Members, and the Market Operator shall register their respective WCOs in their respective organizations to the WESM through the Governance Arm.</u></p>	<p>These revisions/changes were made during the PEMC-DOE meetings/workshops in August and October 2020.</p> <p>Clerical edits for clarity.</p>
			<p><u>3.2.2 Only the Market Operator can register a WCO without undergoing a certification program as it has already the expertise in the WESM, and also responsible in providing training and lecture courses for the designated WCOs of the WESM Members. However, the registered WCO by the Market Operator shall also occupy senior management position such as those pertaining, but not limited, to legal, risk management, regulatory or compliance.</u></p>	<p>WCO of the Market Operator is proposed to be exempted from the certification program in recognition of its expertise in the WESM. However, he/she is also responsible to perform the functions and obligations of WCO as provided in the WESM Rules and Manual. Also, he/she must have the same qualifications as provided in Section 3.1.2 of the proposed Manual.</p>

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			<p><u>Likewise, senior management shall refer to a position in the company which carries with it the authority, capability, and responsibility to plan and direct the work of individuals or group of individuals, or make key decisions in an organization, either through employment or consultancy engagement or agreement.</u></p>	<p>Same definition of senior management.</p>
			<p><u>3.2.3 All WESM Members and the Market Operator shall update the registration of their respective Registered WCOs to the WESM Governance Arm within the compliance period referred to in Section 4 of this Manual. Failure to comply with Clause 7.2.9 of the WESM Rules shall be subject to sanctions pursuant to Section 7.2.5.2 of the WESM Rules.</u></p>	<p>Transferred from Section 3.2 but reworded for clarity.</p> <p>With the extended compliance period and the inclusion of a transitory provision, the WCOs are afforded adequate time to comply with the rules. This would warrant the removal of the provisions regarding the partial compliance with the certification rules, and the classification of “active,” “inactive,” and “probationary” WCOs; rather, a more clear-cut provision in terms of compliance with the certification and registration</p>

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				requirements by subjecting the non-compliant WCOs or the WESM Members to a penalty.
			<p><u>3.2.4. Affiliated WESM Members shall may be allowed to register one (1) WCO to represent them in the WESM provided that the representation is limited under one (1) company name.</u></p> <p><u>For instance, there can be one CertifiedRegistered WCO for the National Grid Corporation of the Philippines even if it functions as the System Operator, Metering Services Provider, and Network Services Provider, and so on.</u></p>	<p>As proposed by DOE.</p> <p>PEMC: Suggest changing shall to may to afford the WESM Members the opportunity to register different WCOs for each WESM Member for justifiable reason. (e.g. for different types of power plant belonging to the different but affiliated WESM Members - there may be a need for a dedicated WCO depending on the set of obligations under the rules)</p>
			<p><u>3.2.5. Prior the end of the compliance period referred in Section 4 hereof, the Registered WCO shall ensure that he/she complies with the required credit units specified in Section 3.2.6 hereof in order to represent its company in the next compliance period.</u></p>	<p>Added - For continuing certification and registration requirement</p>
			<p><u>3.2.6. The Registered WCOs shall complete at least thirty-six (36) units of Certification activities within the</u></p>	<p>Added - For continuing certification and registration requirement</p>

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			<u>three year period allotted for the completion of the required units.</u>	
			<u>3.2.7 For renewal purposes, within six (6) months before the end of each Compliance Period, the WESM Governance Arm shall assess the compliance status of all Registered WCOs. Within the same period, the concerned Registered WCOs shall be notified by the WESM Governance Arm of the deficiency, if any, for completion of the requirements.</u>	Transferred from Section 8.3 with modification on the period: From one (1) month to 6 months. To be performed by the Governance Arm (instead of WCO Accreditation Body).
			<u>3.2.8. The Registered WCO applying for renewal who meets all the requirements set forth herein shall be issued a renewed Certificate of Registration. The Certificate of Registration shall also indicate the validity period.</u>	Added - For continuing certification and registration requirement
MINIMUM QUALIFICATIONS AND REQUIREMENTS FOR WCO ACCREDITATION	4			The provisions are transferred to Section 3 of the Manual (see above)
		4.1 The WCO should occupy a senior management position such as those pertaining, but not limited, to legal, risk management, regulatory or compliance. For this purpose, senior management shall refer to a position in the company which carries with it the authority, capability, and responsibility to plan and direct the work of individuals or group		Transferred to 3.1.2. but reworded

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		of individuals, or make key decisions in an organization, either through employment or consultancy engagement or agreement.		
		4.2 The WEO should have at least one (1) year work experience to a relevant field specifically on electricity market operations/ trading, energy facility operations or regulation and compliance in the energy sector.	4.2 The WEO should have at least one (1) year work experience to a relevant field specifically on electricity market operations/ trading, energy facility operations or regulation and compliance in the energy sector.	Removed as they are covered already under 3.1.2. WEO Note: the term WEOs is removed as they are covered by the term “Designated WCOs”
		4.3 Notwithstanding the provisions set forth in Sections 4.1 and 4.2 hereof, the Head of the concerned entity may, subject to the approval of the WCO Accreditation Body, nominate a WCO who does not meet the requirements of the position and/or work experience, provided that he/she shall indicate in the nomination form that he/she is aware of the lacking requirements of the nominee, and shall state the reasons for the nomination.	4.3 Notwithstanding the provisions set forth in Sections 4.1 and 4.2 hereof, the Head of the concerned entity may, subject to the approval of the WCO Accreditation Body, nominate a WCO who does not meet the requirements of the position and/or work experience, provided that he/she shall indicate in the nomination form that he/she is aware of the lacking requirements of the nominee, and shall state the reasons for the nomination.	Removed Qualifications set -for strict implementation, as proposed by DOE
		4.4. Every WCO must complete at least twenty (20) credit units of Compliance Lecture Series and/or accreditation test within the compliance period as referred to in Section 5 hereof. The WEO is highly encouraged but not required to complete the same number of units within the compliance period.		Transferred to 3.1.3 Changed the 20 credit units to 36 credit units
COMPLIANCE PERIOD	5		SECTION <u>4</u> – COMPLIANCE PERIOD	Renumbered due to the Merger of original Sections 3 and 4.
		5.1 The commencement of the compliance period for WCO Accreditation shall be officially declared by the WCO Accreditation Body. The first compliance period shall be for twelve (12) months. The succeeding compliance period	4.1 The commencement of the compliance period for WCO Certification shall be officially declared by the WCO Accreditation Body WESM Governance Arm . The first initial compliance period shall be for thirty-six (36) months. The	The function is to be performed by the Governance Arm instead of the WCO Accreditation Body.

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		<p>shall be for the same duration and shall begin on the day after the end of the previous compliance period.</p> <p>Thus, for instance:</p> <p>1st Compliance Period: 01 July 2020 to 30 June 2021 2nd Compliance Period: 01 July 2021 to 30 June 2022</p>	<p>succeeding compliance period shall be for the same duration and shall begin on the day after the end of the previous compliance period.</p> <p>Thus, for instance:</p> <p>1st Compliance Period: 01 July 2020²² to 30 June 2021²⁵ 2nd Compliance Period: 01 July 2021²⁵ to 30 June 2022²⁸</p>	
		<p>5.2 For officers or personnel who are already the designated WCO at the start of the compliance period, the accreditation requirements as set forth herein shall be complied with within the compliance period.</p>	<p>4.2. For officers or personnel who are already designated registered as WCOs in the WESM Governance Arm before the start of the first compliance period, their <u>company-respective WESM Members shall undertake necessary action to comply with the certification requirements as set forth herein.</u></p>	<ul style="list-style-type: none"> Registered instead of designated for consistency. Certification instead of accreditation. Reworded for clarity
		<p>5.3 For officers or personnel who get nominated as WCO after the start of the compliance period, the following guidelines shall apply:</p> <p>5.3.1 If three (3) months or less remain of the Compliance Period after the nomination of a WCO, he/she is exempted from complying with the accreditation program requirements during the initial Compliance Period and shall be listed under “Probationary Status” until he/she fully meets the requirement for the succeeding compliance period. He/she may still attend any lecture series but the credit units earned will not be carried over to the next compliance period.</p>	<p>5.3—For officers or personnel who get nominated as WCO after the start of the compliance period, the following guidelines shall apply:</p> <p>5.3.1 If three (3) months or less remain of the Compliance Period after the nomination of a WCO, he/she is exempted from complying with the accreditation program requirements during the initial Compliance Period and shall be listed under “Probationary Status” until he/she fully meets the requirement for the succeeding compliance period. He/she may still attend any lecture series, but the credit units earned will not be carried over to the next compliance period.</p>	<p>Removed</p> <p>With the extended compliance period and the inclusion of a transitory provision, the WCOs are afforded adequate time to comply with the rules. This would warrant the removal of the provisions regarding the partial compliance with the certification rules, and the classification of</p>

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		<p>The WCO Accreditation Body may, at any time, assess the propriety of the designation or appointment of WCO three (3) months or less before the end of each compliance period. Upon determination by the WCO Accreditation Body that such designation is deliberately done to take full advantage of the provision set forth in Section 5.3.1, it shall impose the appropriate sanctions under Section 10 of this Manual.</p>	<p>The WCO Accreditation Body may, at any time, assess the propriety of the designation or appointment of WCO three (3) months or less before the end of each compliance period. Upon determination by the WCO Accreditation Body that such designation is deliberately done to take full advantage of the provision set forth in Section 5.3.1, it shall impose the appropriate sanctions under Section 10 of this Manual.</p>	<p>“active,” “inactive,” and “probationary” WCOs; rather, a more clear-cut provision in terms of compliance with the certification and registration requirements by subjecting the non-compliant WCOs or the WESM Members to a penalty.</p>
		<p>5.3.1 If more than three (3) months remain of the Compliance Period after the nomination of a WCO, he/she shall complete a number of hours of compliance lecture series on Fundamentals of WESM or other basic courses or shall earn units through examination, the total credit units of which shall be in proportion to the number of months remaining in the compliance period.</p> <p>For instance, a WCO was nominated four (4) months prior to the end of compliance period, he/she shall need to earn seven (7) credit units within the remaining compliance period (i.e., 4/12 [month] x 20 [credit units]).</p>	<p>5.3.1 If more than three (3) months remain of the Compliance Period after the nomination of a WCO, he/she shall complete a number of hours of compliance lecture series on Fundamentals of WESM or other basic courses or shall earn units through examination, the total credit units of which shall be in proportion to the number of months remaining in the compliance period.</p> <p>For instance, a WCO was nominated four (4) months prior to the end of compliance period, he/she shall need to earn seven (7) credit units within the remaining compliance period (i.e., 4/12 [month] x 20 [credit units]).</p>	<p>Removed Same comment</p>

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		<p>5.4. The foregoing conditions shall apply for all WEO or other officers who voluntarily join or participate in the Accreditation Program. Their compliance and credit units earned shall likewise be recognized and updated in accordance with Section 8 hereof.</p>	<p>5.4. The foregoing conditions shall apply for all WEO or other officers who voluntarily join or participate in the Accreditation Program. Their compliance and credit units earned shall likewise be recognized and updated in accordance with Section 8 hereof.</p>	<p>Removed as they are covered already under 3.1.2. WEO</p> <p>Note: the term WEOs is removed as they are covered by the term “Designated WCOs”</p>
COMPUTATION OF CREDIT UNITS	6		SECTION <u>5</u> – COMPUTATION OF CREDIT UNITS	
		<p>6.1. Credit units shall be earned through: (a) attendance to compliance lecture series; and (b) taking and passing the examination administered for every lecture series.</p> <p>6.1.1. Attendance to Compliance Lecture Series</p> <p>6.1.1.1 Credit units are equivalent to credit hours. These shall be measured based on the actual time spent or hours of participation in any of the compliance lecture series cited in Section 7 hereof. However, a fraction of an hour shall be rounded up to one full hour. For instance, if the lecture series lasted for only 3.5 hours, four (4) credits will be earned.</p>	<p><u>5.1</u> Credit units shall be earned through (a) attendance to compliance lecture series ; <u>and</u> (b) taking and passing the examination administered for every lecture series.</p> <p><u>5.1.1.</u> Credit units are equivalent to credit hours. These shall be measured based on the actual time spent or hours of participation in any of the compliance lecture series cited in Section <u>6</u> hereof. However, a fraction of an hour shall be rounded up to one full hour. For instance, if the lecture series lasted for only 3.5 hours, four (4) credits will be earned.</p> <p><u>5.1.2</u> Lectures may be organized or facilitated by PEMC or by the Independent Electricity Market Operator of the Philippines (IEMOP), or by any group that the Accreditation Body may</p>	<p>Attending trainings will be adequate to earn credit units.</p> <p>The Market Operator and the Governance Arm may both provide training services.</p>

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		6.1.1.2 Lectures may be organized or facilitated by PEMC or by the Independent Electricity Market Operator of the Philippines (IEMOP), or by any group that the Accreditation Body may thereafter accredit.	thereafter accredit or trainings shall be provided by the WESM Governance Arm or by the Market Operator.	
		<p>6.1.2 Taking and Passing the Examination</p> <p>6.1.2.1 Credit units under this category shall be earned as follows:</p> <p>(a) 2 points for taking the examination; and</p> <p>(b) 2 points for passing the examination</p> <p>6.1.2.2 The examination shall be administered by the entity or group who facilitated the trainings or lectures referred to in Section 6.1.1.2 above. A member of the Secretariat or authorized personnel of the WCO Accreditation Body must be present during the examination.</p> <p>6.1.2.3. The examination may be taken immediately after the lecture series, or online or via website. If the examination is taken online or via website, the WCO Accreditation Body shall adopt a system that would ensure the integrity of the examinations to be taken.</p>	<p>6.1.2—Taking and Passing the Examination</p> <p>6.1.2.1—Credit units under this category shall be earned as follows:</p> <p>(a) 2 points for taking the examination; and</p> <p>(b) 2 points for passing the examination</p> <p>6.1.2.2—The examination shall be administered by the entity or group who facilitated the trainings or lectures referred to in Section 6.1.1.2 above. A member of the Secretariat or authorized personnel of the WCO Accreditation Body must be present during the examination.</p> <p>6.1.2.3. The examination may be taken immediately after the lecture series, or online or via website. If the examination is taken online or via website, the WCO Accreditation Body shall adopt a system that would ensure the integrity of the examinations to be taken.</p>	<p>Removed</p> <p>Attending trainings will be adequate to earn credit units.</p>

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		6.2 Notwithstanding the foregoing provisions on credit unit computation, the WCO Accreditation Body may, upon its own assessment of the degree of importance, relevance, or complexity of a certain lecture series or sets of examination, assign a greater weight than the points established under Sections 6.1.1 and 6.1.2 hereof.	5.2 Notwithstanding the foregoing provisions on credit unit computation, the WCO Accreditation Body WESM Governance Arm or the Market Operator may, upon its own assessment of the degree of importance, relevance, or complexity of a certain lecture series or sets of examination, assign a greater weight than the points established under Section 65.1.1 and 6.1.2 hereof.	Removal of the WCO Accreditation Body. The obligations will be performed instead by the WESM Governance Arm with modifications. The Market Operator and the Governance Arm may both provide training services. Renumbered
		6.3. The credit units that will be measured at the end of the Compliance Period shall be the total of point systems referred to in Sections 6.1.1 and 6.1.2.	5.3 The credit units that will be measured at the end of the Compliance Period shall be the total of point systems referred to in Section 65.1.1 hereof.	Renumbered
COMPLIANCE LECTURE COURSES OR PROGRAMS	7		SECTION 6 - CERTIFICATION PROGRAMS	Renamed for consistency with the terminology used
		7.1. All accreditation activities must have significant content relating to the WESM operations, governance, regulatory compliances, or compliance with the relevant market rules and manuals. These shall include, but not limited to, the following – a. Fundamentals of WESM b. WESM Features c. Membership and Participation in WESM d. Market Dispatch Optimization Model e. Market Offer f. Real-Time Dispatch g. Pricing and Settlement Process	6.1. All accreditation certification activities that shall be provided by the Market Operator and the WESM Governance Arm must have significant content relating to the WESM operations, governance, regulatory compliances, or compliance with the relevant market rules and manuals. These shall include, but not be limited to, the following – a. Fundamentals of WESM b. WESM Features c. Membership and Participation in WESM d. Market Dispatch Optimization Model e. Market Offer	Change in terminology (certification instead of accreditation) The Market Operator and the Governance Arm may both provide training services.

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		h. Market Network Model Development and Maintenance i. Load Forecasting j. Procedure for Load Shedding k. Procedures for Start-up and Shutdown of Generators l. Management of Must-Run Units m. The Role of the WESM Governance Committees n. Market Monitoring o. Generators' Compliances p. Penalties for Breach of WESM Rules q. Submission of Nominations of Loading Levels or Projected Outputs r. Compliance with Forecast Accuracy Standards s. Relevant or recent DOE and ERC Issuances	f. Real-Time Dispatch g. Pricing and Settlement Process h. Market Network Model Development and Maintenance i. Load Forecasting j. Procedure for Load Shedding k. Procedures for Start-up and Shutdown of Generators l. Management of Must-Run Units m. The Role of the WESM Governance Committees n. Market Monitoring o. Generators' Compliances p. Penalties for Breach of WESM Rules q. Submission of Nominations of Loading Levels or Projected Outputs r. Compliance with Forecast Accuracy Standards s. Relevant or recent DOE and ERC Issuances	
		7.2. The WCO Accreditation Body shall approve the training lectures, courses, or curriculum based on content, relevance, and associated costs, among others. It may, on its own initiative or based on the recommendations of the market participants, include or add courses or subjects relevant to this program.	7.2. The WCO Accreditation Body shall approve the training lectures, courses, or curriculum based on content, relevance, and associated costs, among others. It may, on its own initiative or based on the recommendations of the market participants, include or add courses or subjects relevant to this program.	Removal of the WCO Accreditation Body. Already included in or deemed part of Sec. 2.1.4 under the obligations of the Governance Arm (as reworded)
		7.3. The WCO Accreditation Body shall ensure that there are adequate courses or lecture series that can be offered within the compliance period for all types of sectors or members in the WESM. When appropriate, the WCO Accreditation Body may, in advance, determine and authorize the publication of the	6.2. The WCO Accreditation Body WESM Governance Arm and the Market Operator shall ensure that there are adequate courses or lecture series that can be offered within the compliance period for all types of sectors or members in the WESM. When appropriate, the WCO Accreditation Body they may, in advance,	Removal of the WCO Accreditation Body. The obligations will be performed instead by the WESM Governance Arm with modifications.

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		lectures or courses to be offered for the entire compliance period.	determine and authorize the publication of the lectures or courses to be offered for the entire compliance period.	The Market Operator and the Governance Arm may both provide training services. Renumbered
		7.4 The schedule of any lecture or training shall be posted or published in PEMC website at least one month prior to the intended date of lecture or training. The notice to the WCO, WEO, and other compliance officers shall mark the lecture that is being offered as a “WCO-Accredited Lecture or Training” and shall indicate the credit unit(s) or points assigned to each lecture or course offered.	6.3. The schedule of any lecture or training shall be posted or published in PEMC website both the Governance Arm and Market Operator websites at least one (1) month prior to the intended date of lecture or training. The notice to the WCO, WEO, and other compliance officers WESM Members shall mark the lecture that is being offered as a “WCO- Accredited Certified Lecture or Training” and shall indicate the credit unit(s) or points assigned to each lecture or course training offered.	The Market Operator and the Governance Arm may both provide training services. Change in terminology (certified instead of accredited) Renumbered
		7.5 The accreditation activity shall be conducted by person(s) with adequate professional training and experience.	7.5 The accreditation activity shall be conducted by person(s) with adequate professional training and experience.	Removed. This may be covered by the internal business process of the Governance Arm and the Market Operator.
		7.6 Substantive written materials must be distributed to all participants. Such materials must be distributed during or before the time the activity is offered.	6.4 Substantive written materials must be distributed to all participants. Such materials must be distributed during or before the time the activity is offered. It may also be distributed through email or may be downloadable through the WESM Governance Arm and the Market Operator’s respective websites.	Added the alternative means of distribution based on current practice and practicality. Renumbered
		7.7 The lecture or training shall be for a reasonable or minimal fee as would cover the cost of training materials, meals, and other related expenses.	6.5. The lecture or training shall be for a reasonable or minimal fee as would cover the cost of training materials, meals, and other related expenses.	Renumbered

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			<u>6.6. The lecture or training may also be conducted through online platforms.</u>	In consideration of the pandemic and the practical training modality under the New Normal setting. Renumbered
Proof of Accreditation	8	8.1. Upon conclusion of a training course, the facilitator or the Secretariat as appointed by the WCO Accreditation Body, shall issue a certificate of attendance to each participant identifying the time, date, location, subject matter and length of the activity and the number of credit units earned.		Transferred to 3.1.4 but reworded
		8.2. The WCO Accreditation Body, through its Secretariat, shall maintain a database that shall contain the list of all WCO and WEO, the training courses attended, and credit units earned. The contents of the database shall be updated on a regular basis.		Transferred to 3.1.5 but reworded
		8.3. Within one (1) month before the end of each Compliance Period, the WCO Accreditation Body shall assess the compliance status of all WCO and WEO. Within the same period, the concerned WCO or WEO shall be notified by the WCO Accreditation Body of the deficiency, if any, for completion of the requirements.		Transferred to 3.1.5 but reworded

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		<p>8.4. A WCO or WEO meeting all the requirements set forth herein shall be issued a WCO Accreditation Certificate, and shall be listed in the “Active Status” of the database. The certificate shall indicate the compliance period to which it pertains and the validity period.</p>	<p>8.4. A WCO or WEO meeting all the requirements set forth herein shall be issued a WCO Accreditation Certificate, shall be listed in the “Active Status” of the database. The certificate shall indicate the compliance period to which it pertains and the validity period.</p>	<p>Removed</p> <p>The consequence of non-compliance with the rules – subject to sanctions; no more classification whether active or inactive. No reinstatement to active status either.</p>
CHANGE OF WCO/WEO	9		<p>SECTION 7 – CHANGE OF WCO/WEO</p>	<p>For consistency with the proposed removal of WEO.</p> <p>WEO is covered by the terms designated WCOs.</p>
		<p>9.1. The Head of the concerned entity or organization or their Main Contact shall notify the WCO Accreditation Body of the resignation, retirement, termination, or any other cause of separation of the WCO or WEO currently registered in the WESM within 15 calendar days from such occurrence. He/she shall also update the registration of the new WCO or WEO in accordance with Section 3.2. of this Manual. The new WCO or WEO shall be listed under a “Probationary Status,” until he/she meets the requirements provided in Sections 9.2 and 9.2.1.</p>	<p><u>7.1 The WESM Members and the Market Operator shall notify the WESM Governance Arm of its intent to change its Registered WCO in the WESM due to resignation, retirement, termination, or any other cause of separation within three (3) working days from such occurrence. Said WESM Member or the Market Operator shall also register its new WCO in accordance with Section 3.2 of this Manual.</u></p> <p>9.1. The Head of the concerned entity or organization or their Main Contact shall notify the WCO Accreditation Body of the resignation, retirement, termination, or any other cause of separation of the WCO or WEO currently registered in the WESM within 15 calendar days from such occurrence. He/she shall also update the registration of the new WCO or WEO in accordance with Section 3.2. of this Manual. The new WCO or WEO shall be listed under a</p>	<p>Reworded for clarity.</p> <p>Changed from 15 working days to 3 days</p> <p>Removal of “Probationary Status”</p> <p>The consequence of non-compliance with the rules – subject to sanctions; no more classification whether active or inactive. No reinstatement to active status either.</p>

Annex A – Matrix of Further Amendments to the WESM Rules and New WESM Compliance Officers (WCO) Accreditation and Certification Manual

Title	Section	Provision on RCC Resolution 2019-19	Proposed Further Amendments (2021 Version)	Rationale
			<p>“Probationary Status,” until he/she meets the requirements provided in Sections 9.2 and 9.2.1.</p>	
	9	<p>9.2. If, at the time of his/her nomination, the new WCO or WEO has a valid WCO accreditation or has already earned credit units by reason of his previous employment or engagement, he/she can seek confirmation from the WCO Accreditation Body of the accreditation already earned within the compliance period. The WCO Accreditation Body may accredit in full or in part the accreditation points earned within the compliance period depending on the relevance of the accreditation activities previously undertaken by the WCO or WEO in relation to his/her present employment or engagement.</p> <p>9.2.1. If the new WCO or WEO is granted a full accreditation, he/she shall be listed in the “Active Status” of the database. The accreditation shall only be valid within the compliance period indicated in the certificate referred to in Section 8.4 hereof.</p> <p>9.2.2. If the new WCO or WEO is granted a partial accreditation by the WCO Accreditation Body, he or she shall be listed under “Probationary Status” and shall make good any deficiency by taking into account the lacking credit units in relation to the remaining time towards the completion period, as required under Sections 5.3.1 and 5.3.2 hereof.</p>	<p><u>7.2. During the WESM Member’s selection of a qualified individual to become its new Registered WCO, and there is an individual who has already a valid WCO Certification or has already earned credit units by reason of his/her previous employment or engagement, the WESM Member can seek confirmation from the WESM Governance Arm regarding of the said accreditation certification that was already earned within the compliance period.</u></p> <p>9.2. If, at the time of his/her nomination, the new WCO or WEO has a valid WCO accreditation or has already earned credit units by reason of his previous employment or engagement, he/she can seek confirmation from the WCO Accreditation Body of the accreditation already earned within the compliance period. The WCO Accreditation Body may accredit in full or in part the accreditation points earned within the compliance period depending on the relevance of the accreditation activities previously undertaken by the WCO or WEO in relation to his/her present employment or engagement.</p> <p>9.2.1. If the new WCO or WEO is granted a full accreditation, he/she shall be listed in the “Active Status” of the database. The accreditation shall only be valid within the compliance period indicated in the certificate referred to in Section 8.4 hereof.</p> <p>9.2.2. If the new WCO or WEO is granted a partial accreditation by the WCO Accreditation Body,</p>	<p>Reworded for clarity.</p> <p>No more full or partial certification. Earned credit units as previously earned from previous employment may however be confirmed with the WESM Governance Arm.</p> <p>Remove other provisions: The consequence of non-compliance with the rules – subject to sanctions; no more classification whether active or inactive. No reinstatement to active status either.</p>

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			he or she shall be listed under “Probationary Status” and shall make good any deficiency by taking into account the lacking credit units in relation to the remaining time towards the completion period, as required under Sections 5.3.1 and 5.3.2 hereof.	
			<u>7.3 The WESM Member may also select the replacement of its Registered WCO from its pool of Certified WCOs.</u>	
			<u>7.4 On the other hand, the Market Operator may select the replacement of its Registered WCO in accordance with Section 3.2 hereof.</u>	In view of the proposed change under Sections 2.3.1 and 3.2.2
NON-COMPLIANCE AND CONSEQUENCES OF NON-COMPLIANCE	10		<u>SECTION 8 - NON-COMPLIANCE AND CONSEQUENCES OF NON-COMPLIANCE WITH THE REGISTRATION REQUIREMENTS</u>	
		10.1 The WCO failing to comply with this Manual will receive a Non-Compliance Notice with a statement about a specific deficiency. The Notice shall be addressed to: (a) concerned WCO; and (b) the Head of the company or entity which he/she represents for compliance purposes.	<u>8.1 Subject to the transitory provisions provided under Section 10 of this Manual, failure by a WESM Member or the Market Operator to comply with the registration of the WCOs pursuant to Section 7.2.9 of the WESM Rules and this manual, shall result to the issuance of a Non-Compliance Notice by the Governance Arm.</u>	Reworded for clarity. Subject to transitory provision
		10.2 The non-compliant WCO will be given thirty (30) days from the receipt of the notification to explain the deficiency or otherwise show compliance with the requirements.	10.2 The non-compliant WCO will be given thirty (30) days from the receipt of the notification to explain the deficiency or otherwise show compliance with the requirements.	Removed. DOE proposed that the non-compliant WESM Member be subjected to sanctions.
		10.3. A non-compliance fee shall be paid by the company or entity being represented by the	<u>8.2 The failure of the WESM Member or the Market Operator to comply with the</u>	Reworded for clarity and consistency with the

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Title	Section	Provision on RCC Resolution 2019-19	Proposed Further Amendments (2021 Version)	Rationale
		non-compliant WCO in accordance with the WESM Penalty Manual. The WCO Accreditation Body may waive the payment of non-compliance fee if it determines that the non-compliance hereof was due to justifiable or reasonable reasons or circumstances that are beyond the control of the WCO or WEO.	<u>registration requirements set forth herein shall be the basis of the WESM Governance Arm to impose on and collect a non-compliance fee from the non-compliant WESM Member as a penalty in such amounts authorized under the WESM Penalty Manual.</u>	parties involved. (No more WCO accreditation body) The consequence of non-compliance with the rules – subject to sanctions;
		10.4. The non-compliant WCO shall be listed under “Inactive Status”. The WCO in “Inactive Status” shall not be authorized to represent his/her respective organization in matters relating to the enforcement and compliance or to exercise any of the functions provided in Clause 7.2.9.2 of the WESM Rules. He/she shall continue to have such status until reinstated.	10.4. The non-compliant WCO shall be listed under “Inactive Status”. The WCO in “Inactive Status” shall not be authorized to represent his/her respective organization in matters relating to the enforcement and compliance or to exercise any of the functions provided in Clause 7.2.9.2 of the WESM Rules. He/she shall continue to have such status until reinstated.	Removed The consequence of non-compliance with the rules – subject to sanctions; no more classification whether active or inactive. No reinstatement to active status either. Please see proposed further revision under 8.4
		10.5. The WEO or other compliance officers who have been accredited under Section 8.4 of this Manual, may represent their respective organizations, while the WCO referred to in the preceding paragraph is in “Inactive Status”		Transferred to Section 7.3 but reworded for clarity.

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Title	Section	Provision on RCC Resolution 2019-19	Proposed Further Amendments (2021 Version)	Rationale
			<p>8.3 The non-compliant Registered WCO shall be listed under “Inactive Status”. The WCO in “Inactive Status” shall not be authorized to represent his/her respective organization in any case proceedings pending with the Governance Arm or in matters relating to enforcement and compliance or to exercise any of the functions provided in Clause 7.2.9.2 of the WESM Rules. He/she shall continue to have such status until reinstated. For this purpose, the WESM Member shall immediately register in the WESM another WCO from its pool of Certified WCOs.</p>	<p>Transferred from original Section 10.4.</p> <p>Proposed to retain this to indicate the additional consequence of the non-compliance of the WCO with modification.</p>
REINSTATEMENT	11			
		<p>11.1 The WCO may use the 30-day period referred to in Section 10.2 to complete his/her compliance with this Manual. Credit units earned during this period may only be counted toward compliance with the prior compliance period requirement unless units in excess of the requirement are earned, in which case the excess may be counted toward meeting the current compliance period requirement.</p>	<p>11.1 The WCO may use the 30-day period referred to in Section 10.2 to complete his/her compliance with this Manual. Credit units earned during this period may only be counted toward compliance with the prior compliance period requirement unless units in excess of the requirement are earned, in which case the excess may be counted toward meeting the current compliance period requirement.</p>	<p>Removed</p> <p>The consequence of non-compliance with the rules – subject to sanctions; no more classification whether active or inactive. No reinstatement to active status either.</p>
		<p>11.2. The WCO shall be reinstated to “Active Status” upon determination of full compliance in accordance with the preceding section. He/she shall be immediately notified of the reinstatement and shall be issued a WCO Accreditation Certificate as referred to in Section 8.4 hereof.</p>	<p>11.2. The WCO shall be reinstated to “Active Status” upon determination of full compliance in accordance with the preceding section. He/she shall be immediately notified of the reinstatement and shall be issued a WCO Accreditation Certificate as referred to in Section 8.4 hereof.</p>	<p>Removed</p> <p>The consequence of non-compliance with the rules – subject to sanctions; no more classification whether active or inactive. No reinstatement to active status either.</p>

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Title	Section	Provision on RCC Resolution 2019-19	Proposed Further Amendments (2021 Version)	Rationale
(NEW)			<u>8.4 The procedures relating to the certification and registration of the WCOs in the WESM including the imposition of the non-compliance fees, if warranted, are illustrated in Appendix I of this Manual.</u>	Added - To make reference to the process flowchart (as Appendix I), as proposed by the DOE.
REVIEW	12		SECTION 9 - MANUAL REVIEW	
		12.1. This Manual shall be reviewed by the WCO Accreditation Body annually or as may be necessary.	<u>9.1 This Manual shall be reviewed by the WCO Accreditation Body WESM Governance Arm annually or as may be necessary.</u>	The responsibilities of WCO Accreditation Body are instead placed under the Governance Arm with modifications.
		12.2. The WCO Accreditation Body shall conduct consultations with the market participants for possible amendment or revision of the guidelines provided under this Manual.		
		12.3. Any revisions or changes made to this Manual shall be published in PEMC Website.	<u>9.2. Any revisions or changes made to this Manual shall be approved by the DOE and published in PEMC Website the website of the WESM Governance Arm.</u>	Regular process in the amendment of manual (subject to approval of DOE) Change in terminology (PEMC to Governance Arm)
NEW			<u>SECTION 10 – TRANSITORY PROVISION</u> <u>All current Registered WCOs in the WESM may remain to be the Registered WCOs subject to the provisions set forth in this Manual</u>	Added - To ensure readiness of the

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Title	Section	Provision on RCC Resolution 2019-19	Proposed Further Amendments (2021 Version)	Rationale
EFFECTIVITY	13	This Manual shall become effective upon approval of the Department of Energy and fifteen (15) days after publication in newspaper of general circulation.	SECTION 11 – EFFECTIVITY This Manual shall become effective upon approval of the Department of Energy and fifteen (15) days after publication in two (2) newspapers of general circulation.	To add the general requirement for publication

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A. WESM Manual on Registration, Suspension and De-Registration Criteria and Procedures Issue 5.3

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
Other Considerations	2.5.4.2.	<p>Aggregation of Generating Units</p> <p><i>A Generation Company that owns multiple generating units located in a single generating station shall, upon application, inform the Market Operator if it wishes to have an aggregated representation for such generating units in the market network model. The Applicant, the Network Services Provider, Metering Services Provider, System Operator and the Market Operator shall agree on the manner of aggregated</i></p>	<p>Aggregation of Generating Units</p> <p><i>A Generation Company that owns multiple generating units located in a single generating station shall, upon application, inform the Market Operator if it wishes to have an aggregated representation for such generating units in the market network model.</i></p> <p><i>The Applicant, the Network Services Provider, Metering Services Provider, System Operator and the Market Operator</i></p>	Clarify how Pmin and Pmax are determined for aggregated generating units				<p>Approved as revised</p> <p>xxx</p> <p><u>Should the technical information contained in the Certificate of Compliance or Provisional Authority to Operate (PAO) or ERC Certificate with appropriate exhibit issued by the ERC</u></p>

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		<p>representation in accordance with the procedures set forth in relevant <i>Market Manuals</i>.¹⁶</p>	<p>shall agree on the manner of aggregated representation in accordance with the procedures set forth in relevant <i>Market Manuals</i>.¹⁶</p> <p><u>Should the technical information contained in the Certificate of Compliance issued by the ERC indicate details per generating unit, the following shall be observed when reflecting the aggregated facility's registered capacity:</u></p> <p>a. <u>Maximum Stable Load (or Pmax) shall be based on the sum of the individual generating unit's</u></p>					<p><u>indicate details per generating unit, the following shall be observed when reflecting the aggregated facility's registered capacity:</u> xxx</p>

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
			<p><u>maximum capacity; and</u></p> <p>b. <u>Minimum Stable Load (or Pmin) shall be based on the smallest Pmin among the individual generating units.</u></p>					
Other Considerations	2.5.4.7	(NEW)	<p><u>2.5.4.7 Real-Time Monitoring Location</u></p> <p><u>During the registration of the generating unit, the Generation Company shall specify if its real-time monitoring will be at the gross MW output of the generating unit or at the same location as its market trading node, which is at its connection point and net of its station use, in accordance with the guidelines set</u></p>	Require the generation company to provide the Market Operator information on the location of its real-time monitoring facilities to more efficiently facilitate its accurate	<p>PEMC:</p> <p>1. Section 2.5.4.7 will become Section 2.5.4.8, in view of urgent amendments proposing for Section 2.5.4.7 as clarified during RCC's Urgent Meeting on 26 March 2021.</p>	<p>PEMC:</p> <p><u>2.5.4.8 Real-Time Monitoring Location</u></p> <p><u>During the registration of the generating unit, the Generation Company shall specify if its real-time monitoring will be at the</u></p>	<p>PEMC:</p> <p>Agree with the re-numbering</p> <p>This proposed amendment may be completely discussed separately with the MO-SO enhancement proposed amendments. The MO-SO</p>	Approved

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
					<p>NOT at the MTN?</p> <p>Aboitiz Power:</p> <p>Is this an existing process and will be added as a new clause for documentation purposes?</p>		<p>MTN, then generator model will be reflected at the gross output of the generation, which includes its station use. Technically, there are only two options, (1) gross or (2) net of station use.</p> <p>Aboitiz Power: This is an existing process and will be added for clarity and documentation purposes.</p>	

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B. WESM Manual on Market Network Model Development and Maintenance - Criteria and Procedures Issue 4.2

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
Definitions	2.1.5	(NEW)	<u>2.1.5 Market Resource refers to the objects defined in the Market Network Model to represent generators, battery energy storage systems, pumped-storage units, and loads.</u>	Provide general term used in MNM for all objects representing generators, BESS, pumped-storage units, and loads	<p>PEMC:</p> <p>Consider revising the definition consistent with the proposed amendments to Section 6.1.1, to clarify that the market resource is classified as either a scheduling point or a market trading node.</p> <p>TC:</p> <p><i>For Clarification:</i></p>		<p>PEMC: Section 6.1.1 provides the classification of the Market Resource and may not be included in the definition of Market Resource</p> <p>TC: The definition is aligned with the current classification</p>	<p>Approved</p> <p>IEMOP: Market Resource: actual object being modelled in the system</p> <p>MTN: specific at the connection point for settlement</p> <p>Scheduling point: reference for scheduling; dependent on market resource</p>

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
					<p>The list that was provided (gen, BESS, pumped-storage, loads); is that an exhaustive list?</p> <p>According to the proposal, <i>the Market Operator has observed that the increasing number of resource types in the WESM is resulting in the repetitive enumeration of those resource types in the WESM Manual, which negatively affects the ease of readability of</i></p>		<p>of resources in the WESM, as provided in Clauses 2.3.1 and 2.3.2 or as provided by DOE DC2016-01-0002</p>	

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
					<p><i>the WESM Manual.</i></p> <p>In which case, they may want to keep an open list here to accommodate new resources in the future without resorting to another Rules Change.</p>			
Responsibilities	3.2.2	(NEW)	<p><u>3.2.2 The System Operator and the Generation Companies shall ensure that their facilities for real-time monitoring are available and that they accurately</u></p>	<p>To include Generator Companies in the responsibility to maintain real-time facilities to cover cases when the Generation Company owns or manages its own real-time monitoring facilities</p>	<p><u>Aboitiz Power:</u></p> <p>Is this an existing process and will be added as a new clause for documentation purposes?</p>		<p>Aboitiz Power:</p> <p>This is an existing process and will be added for clarity and documentation purposes.</p>	<p>IEMOP: For revision – refinements of MO & SO responsibilities to be sent to RCC thru email</p>

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
			<u>reflect the state of their generation (i.e., MW/MVAR output and generator breaker status).</u>					
Responsibilities	3.2.3	(NEW)	<u>3.2.3 The Market Operator shall immediately inform the System Operator of any observed discrepancies in the real-time data.</u>	Provide separate responsibility for IEMOP to report any observed discrepancies in the real-time data from SO				Approved
Criteria for The Market Network Model Development	4.3.2	Network data that accurately reflects the conditions prevailing on the network, including losses, constraints and contingencies, at	Network data that accurately reflects the conditions prevailing on the network, including losses, constraints and contingencies, at	Revise term of “trading” to “dispatch” interval for consistency with the use of dispatch intervals				Approved

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		any trading interval	any trading dispatch interval					
MNM Components and Modeling	4.4.2	Generator plant/unit representations These are numerical representations of generating units and its characteristics corresponding to power injection to the network. Generating units shall be modeled as the positive power injection with linear monotonically increasing cost function.	Generator plant/unit resources representations These are numerical representations of generating units and its characteristics corresponding to power injection to the network. Generating units shall be modeled as the positive power injection with linear monotonically increasing cost function.	Reflect proposed general term for representations of generators, battery energy storage systems, pumped-storage unit, and loads	PEMC: 1. To align with the definition introduced 2. What is the difference of this listing with Section 6.3.1? TC: The article does talk about how generating units are represented in the MNM; a change in title does not seem appropriate.	PEMC: 4.4.2 <i>Generator plant/unit market resources</i>	PEMC: 1. Agree with the revision 2. This clause is an overview. Section 6.3.1 provides the different types of generator resources.	Approved as revised: Representation s of Generator plant/unit Market Resources
MNM Components and Modeling	4.4.3	Load representations	Load resources representations	Reflect proposed general term for representations of	PEMC:	PEMC:	PEMC: 1. Agree	Approved as revised:

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		<p>These are numerical representations of the customer demand corresponding to power withdrawal from the network. Loads shall be modeled as constant power withdrawal points.</p>	<p>These are numerical representations of the customer demand corresponding to power withdrawal from the network. Loads shall be modeled as constant power withdrawal points.</p>	<p>generators, battery energy storage systems, pumped-storage unit, and loads</p>	<p>1.To align with the definition introduced</p> <p>2. What is the difference of this listing with Section 6.3.1?</p> <p>3.Suggest using customer resource or load resource but not both.</p> <p>TC:</p> <p>The article does talk about how generating units are represented in the MNM; a change in title does not seem appropriate.</p>	<p>4.4.3 <i>Load <u>market resources</u></i></p>	<p>2. This clause is an overview. Section 6.3.1 provides the different types of generator resources</p> <p>3. Suggest to use load resource.</p> <p>TC: Again, this is an overview. Section 6.3.1 provides the details of</p>	<p>Representation of Load Market Resources</p>

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
<p>MNM Components and Modeling</p>	<p>4.4.4</p>	<p><i>Battery Energy Storage System</i> representation</p> <p>This is the mathematical model of a <i>battery energy storage system</i> with its dual capability of injecting or withdrawing power through the network.</p>	<p><i>Battery Energy Storage System</i> resources representation</p> <p>This is the mathematical model of a <i>battery energy storage system</i> with its dual capability of injecting or withdrawing power through the network.</p>	<p>Reflect proposed general term for representations of generators, battery energy storage systems, pumped-storage unit, and loads</p>	<p>PEMC:</p> <p>1.To align with the definition introduced</p> <p>2. What is the difference of this listing with Section 6.3.1?</p> <p>TC:</p> <p>The article does talk about how generating units are represented in the MNM; a change in title does not seem appropriate.</p> <p><i>For Clarification:</i></p>	<p>PEMC:</p> <p>4.4.4 <i>Battery Energy Storage System</i> market resources</p> <p>TC:</p> <p>Battery Energy Storage System representation</p> <p>This is the mathematical model of a battery energy storage system with its dual</p>	<p>generator/load modelling.</p> <p>PEMC: Agree with the revision.</p> <p>TC: Does not agree as it is not capable of providing “constant” power.</p>	<p>Approved as revised:</p> <p><u>Representation of Battery Energy Storage System market resources</u></p>

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
					Loads were described earlier as a constant power model, is BESS modelled as constant power as well?	capability of injecting <u>constant</u> power to or withdrawing <u>constant</u> power from through the network.		
MNM Components and Modeling	4.4.5	<p><i>Pumped-Storage Unit</i> representation</p> <p>This is the mathematical model of a <i>pumped-storage unit</i> with its dual capability of injecting or withdrawing power through the network.</p>	<p><i>Pumped-Storage Unit <u>resources</u></i> representation</p> <p>This is the mathematical model of a <i>pumped-storage unit</i> with its dual capability of injecting or withdrawing power through the network.</p>	Reflect proposed general term for representations of generators, battery energy storage systems, pumped-storage unit, and loads	<p>PEMC:</p> <p>1.To align with the definition introduced</p> <p>2. What is the difference of this listing with Section 6.3.1?</p> <p>TC:</p> <p>The article does talk about how generating units are represented</p>	<p>PEMC:</p> <p>4.4.5 <i>Pumped-Storage Unit <u>market resources</u></i></p> <p>TC:</p> <p>This is the mathematical model of a <i>pumped-</i></p>	<p>PEMC: Agree.</p> <p>TC: Additional revision not necessary.</p>	<p>Approved as revised:</p> <p><u>Representation of Pumped-Storage Unit market resources</u></p>

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					<p>in the MNM; a change in title does not seem appropriate.</p> <p><i>For Clarification:</i> Loads were described earlier as a constant power model, is PSU modelled as constant power as well?</p>	<p><i>storage unit</i> with its dual capability of injecting constant power to or withdrawing constant power from through the network.</p>		
MNM Components and Modeling	4.4.7	<p>Transshipment Node</p> <p>A node in the network model that has neither a generator nor customer associated to it. A transshipment node connects at least two</p>	<p>Transshipment Node</p> <p>A node in the network model that has neither a generator nor customer associated to it. A transshipment node connects at least two</p>	Clerical correction for equipment (i.e., remove 's')	<p>TC:</p> <p>These are better referred to as zero-injection nodes.</p>		TC: Does not agree. These are just connectivity points/nodes used in the market model.	Approved

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		equipments together.	equipments together.					
Market Impact Study	4.6.3	The Market Operator shall publish the results of the market impact study as may be required by the PEM Board.	The Market Operator shall publish the results of the market impact study as may be required by the <u>DOE, ERC, and the</u> PEM Board.	Propose to include DOE and ERC	<p>PEMC:</p> <p>1.Does the market study contain confidential information?</p> <p>2.Is it the intent of the proponent to provide additional approving authority to publish the market impact study? Will these parties (DOE, ERC and PEM Board) be given copies of the market impact study. Currently, there</p>		<p>PEMC:</p> <p>1. IEMOP ensures that the published study itself will not include confidential information.</p> <p>2. Upon reviewing the entire MNM manual, IEMOP just deemed it appropriate to provide also to DOE and</p>	<p>Approved as revised:</p> <p>The Market Operator shall publish <u>submit</u> the results of the market impact study as may be required by <u>to</u> the <u>DOE, ERC and the PEM Board.</u></p> <p><u>The MO shall publish a public copy of the same in the market information website, if required by the DOE, ERC, or the PEM Board</u></p>

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
					is no provision requiring the MO to provide copies of the market impact study to DOE, ERC and PEM Board.		ERC the results of the market impact study.	
MNM	5	ALTERATIONS TO THE MARKET NETWORK MODEL	ALTERATIONS <u>GUIDELINES IN THE UPDATING AND MAINTENANCE</u> OF TO THE MARKET NETWORK MODEL	Revised for clarity	PEMC: To avoid misinterpretation that the steps/processes are optional.	PEMC: <u>UPDATING AND MAINTENANCE OF THE MARKET NETWORK MODEL</u>	PEMC: Agree.	Approved
Network Development	5.2.2	Changes in the MNM configuration as a result of network development or aggregation or disaggregation of Trading Nodes shall be	<u>Updates</u> Changes in the MNM configuration as a result of <u>the</u> network development or aggregation or disaggregation of <u>market</u>	Revised for clarity.	PEMC: Reference to Section 7 is misplaced. Section 7 is about the amendment and publication of market	PEMC: <u>Updates</u> Changes in the MNM configuration as a result of <u>the</u> network development or aggregation or	PEMC: Agree	Approved

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		published in accordance with MNM publication requirements set forth in Section 6.0 of this document.	Trading Nodes shall be made published in accordance with the MNM publication requirements set forth in Section 6.0 7 of this Market Manual document.		manual. Manner of publication for any changes/updates in MNM is under Section 5.5.	disaggregation of market resources Trading Nodes shall be made published in accordance with the MNM publication requirements set forth in Section 6.0 5.5 of this Market Manual document.		
Simplifications on the Market Network Model	5.3.2	The MNM may contain simplifications related to the representation of Generation and Customer Trading Nodes upon request of a Trading Participant and approved by the	The MNM may contain simplifications related to the representation of market resources Generation and Customer Trading Nodes upon request of a Trading	Revised for clarity. Also included provision on the treatment of Generators (e.g. Embedded Generators) that are located far from the main substation of NGCP, and there is limited real-time	MEI/PEI: <i>What is meant by “operationally connected” to the nearest substation? The term as used is quite vague. MEI and PEI suggest to use</i>	MEI/PEI: d) <u>Representation of downstream generating units with limited real-time monitoring facilities such as in cases of</u>	MEI/PEI: Agree.	Approved as revised: <u>Representation of downstream generating units with limited real-time monitoring facilities such as in cases of</u>

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		Market Operator, System Operator, and if necessary, the Network Service Provider. Such simplifications are listed, but not limited to the following conditions a) Aggregated representation of multiple generating units; b) Aggregated representation in the MNM may be applied to multiple generating units that are located in a single generating station; c) Disaggregated representation of	<i>Participant. It should be approved agreed upon by the Trading Participant, Market Operator, System Operator, and if necessary, the Network Service Provider. Such simplifications are listed, but not limited to the following conditions.</i> a) Aggregated representation of multiple generating units; b) (note: aggregated representation in the MNM may be applied to multiple	monitoring facilities available, or when they are in distribution networks that are not modelled in the MNM.	<i>instead the term “indirectly connected”. This is consistent with the definition of an embedded generator as a generating unit indirectly connected to the grid through the system of the host distribution utility.</i>	<u>embedded generators where there is limited availability of real-time monitoring facilities between the transmission system's main substation and the generator, in which case, the Market Operator may model the generating unit at the nearest MNM substation to which it is indirectly connected. The following illustration shows an</u>		<u>embedded generators where there is limited availability of real-time monitoring facilities between the transmission system's main substation and the generator, in which case, the Market Operator may provisionally model the generating unit at the nearest MNM substation to which it is indirectly connected. The following illustration shows an</u>

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		customer trading nodes; and d) Single Customer Trading Nodes representing an aggregate of multiple customers maybe disaggregated into several Customer Trading Nodes corresponding to the customers represented in that Trading Node. It is provided, however, that such disaggregation shall be allowed only in cases where there are appropriate real-	<i>generating units that are located in a single generating station);</i> e) Disaggregated representation of customer trading nodes; and e) Single Customer Trading Nodes representing an aggregate of multiple customers maybe disaggregated into several Customer Trading Nodes corresponding to the customers represented in that Trading Node. It is		TC:	<u>example of this case:</u> <u>e) Representation of downstream generating units located in a distribution network that is not reflected in the market network model. The Market Operator may model the generating unit at the nearest MNM substation to which it is</u>	TC: Noted	<u>example of this case:</u> IEMOP to provide example of looping Prof Jordan: If "provisional" is it time-bound? until when IEMOP: no control on the availability

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		time monitoring points that can account for the real-time withdrawal of energy in each disaggregated individual customer trading node.	<p>provided, however, that such disaggregation shall be allowed only in cases where there are appropriate real-time monitoring points that can account for the real-time withdrawal of energy in each disaggregated individual customer trading node.</p> <p><u>d)</u> <u>Representation of downstream generating units with limited real-time monitoring facilities such as in cases of</u></p>		<p>Operationally connected" is not clear enough to be included in the rules.</p> <p>We understand that the MO is forced to do this due to limited monitoring facilities or in the absence of network models, however including this in the rules may further perpetuate this practice that leads to inaccuracy. However, the inclusion of such new provision may be useful for the MO</p>	<u>indirectly connected.</u>		

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			<p><u>embedded generators where there is limited availability of real-time monitoring facilities between the transmission system's main substation and the generator, in which case, the Market Operator may model the generating unit at the nearest substation to which it is operationally connected. The following illustration shows an</u></p>		<p>We understand that inclusion of these new provisions may be used to justify current practice before an audit panel.</p> <p>MERALCO:</p> <p>In the event that the nearest substation to which it is operationally connected is not a market trading node or modeled in the MNM as mentioned in item (e), the MO should model the embedded</p>	<p>MERALCO:</p> <p><u>e) Representation of downstream generating units located in a distribution network that is not reflected in</u></p>	<p>MERALCO: Suggest to adopt MEI/PEI revision instead.</p>	

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			<p><u>example of this case:</u></p> <p><i>[See Appendix A.]</i></p> <p><u>e)</u> <u>Representation of downstream generating units located in a distribution network that is not reflected in the market network model.</u> <u>The Market Operator may model the generating unit at the nearest substation to which it is operationally connected.</u></p>		generator at the nearest Market Trading Node to which it is operationally connected. This is already sufficient for the purposes of the model and its use.	<p><u>the market network model. The Market Operator may model the generating unit at the nearest substation</u> <u>Market Trading Node to which it is operationally connected.</u></p>		

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
MNM	--	MARKET NETWORK MODEL MAINTENANCE AND PUBLICATION	MARKET NETWORK MODEL MAINTENANCE AND PUBLICATION	Not necessary. Clerical edit.				Approved
Continuing Obligations and Responsibilities	5.10.2	(NEW)	<u>5.10.2 The System Operator, in coordination with Network Service Providers and Trading Participants shall continuously ensure the completeness, availability, and accuracy of the required real-time data in the market network model.</u>	Proposed revision to highlight responsibility of SO in ensuring reliability of real-time data.	<p>TC:</p> <p>Can we directly point to Sec 4.4.12, otherwise list here the set “real-time data”?</p> <p>We avoid any misinterpretation on the term “real-time data”</p> <p>NGCP:</p> <p>NGCP's proposed revision requiring for a</p>	<p>NGCP:</p> <p>5.10.2 The System Operator, in coordination with Network Service Providers and</p>	<p>TC: Real-Time Data is already defined in the WESM Dispatch Protocol, which replaces the previous term “system snapshot”. No revisions needed.</p> <p>NGCP:</p> <p>Agree.</p>	<p>SO disagrees</p> <p>For IEMOP's revision – refinement of responsibilities to be sent to RCC via email</p> <p>RCC: Adopt NGCP's revisions</p>

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
					level of acceptability of required real-time data would set the sufficiency of the data for the purpose it is being provided.	Trading Participants shall continuously ensure the completeness, availability, and accuracy of the required real-time data in the market network model. <u>The level of completeness, availability and accuracy should conform to the standards set by the System Operator and the Market Operator.</u>	However, IEMOP notes that the additional proposed language will trigger the development by the MO and SO of the standards and that compliance with said standards will require monitoring and/or enforcement for compliance purposes by the ECO.	
Continuing Obligations and	5.10.3	(NEW)	<u>5.10.3 The System Operator shall report real-time</u>	Provide Trading Participants that own or manage their real-time	PEMC: A validation should be	PEMC: Additional Clause:	PEMC: Agree.	SO disagrees For IEMOP's revision –

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
Responsibilities			<p><u>monitoring facilities owned or managed by the Trading Participants that have been persistently erroneous or non-updating for at least two (2) business days to the Market Operator and Enforcement and Compliance Office. The Trading Participant shall endeavor to resolve the issue within one (1) month from the time it was reported.</u></p>	<p>monitoring facilities the responsibility to correct real-time data errors in a timely manner</p>	<p>undertaken by the SO confirming that the monitoring facilities are already working properly with the resolution introduced by the Trading Participant.</p> <p>MEI/PEI:</p> <p><i>MEI and PEI suggest that a similar provision be included to</i></p>	<p><u>The System Operator shall confirm no later than fifteen (15) calendar days upon receipt of the notification of the resolution from the Trading Participant the correctness of real-time data transmitted by the monitoring facilities.</u></p> <p>MEI/PEI:</p> <p><u>The System Operator shall endeavor to</u></p>	<p>MEI/PEI: Agree. Recommend change to thirty (30) calendar</p>	<p>refinement of responsibilities to be sent to RCC via email</p> <p>5.10.3 The System Operator shall report real-time monitoring facilities owned or managed by the Trading Participants that have been persistently erroneous or non-updating for at least two (2) business days to the Market Operator and Enforcement and Compliance Office. The Trading Participant shall</p>

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
					<p><i>define the responsibility of the System Operator in restoring its own real-time monitoring facilities.</i></p> <p>TC:</p> <p>The reporting may be delayed to the next business day but the condition for the reporting should not exclude non-business days. One month to resolve may be adequate but a quicker report on the status</p>	<p><u>restore any failed real-time monitoring facility that it owns within one (1) month from the time the problem was found or reported.</u></p>	<p>days as prescribed by MERALCO.</p>	<p>endeavor to resolve the issue <u>not later than seven (7) days within fifteen (15) calendar days</u> from the time it was reported.</p>

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
					<p>may be expected (say one week to report the diagnosis, then one week to resolve)</p> <p>MERALCO:</p> <p>To avoid ambiguity, we propose to replace “one (1) month” with “thirty (30) days.”</p>	<p>MERALCO:</p> <p><u>5.10.3 The System Operator shall report real-time monitoring facilities owned or managed by the Trading Participants that have been persistently erroneous or non-updating</u></p>	<p>MERALCO: Agree.</p>	

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
					<p>NGCP:</p> <p>The proposed 1-month/30-day correction period for the Trading Participants (TPs) is quite</p>	<p><u>for at least two (2) business days to the Market Operator and Enforcement and Compliance Office. The Trading Participant shall endeavor to resolve the issue within thirty (30) days one (1) month from the time it was reported.</u></p> <p>NGCP:</p> <p>5.10.3 The System Operator shall</p>	<p>NGCP:</p> <p>Agree.</p> <p>IEMOP notes that this provision will also require monitoring and/or</p>	

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
					<p>long. This puts additional burden to the SO of estimating and manually inputting dispatch schedule, especially if we consider the 5-minute dispatch intervals.</p> <p>In view of the foregoing, NGCP proposes to reduce the correction period from one (1) month/ thirty (30) days to seven (7) days as to compel the TPs to actively</p>	<p>report real-time monitoring facilities owned or managed by the Trading Participants that have been persistently erroneous or non-updating for at least two (2) business days to the Market Operator and Enforcement and Compliance Office. The Trading Participant shall endeavor to resolve the issue not later than seven (7) days from the</p>	<p>enforcement by the ECO insofar as compliance by the TPs with the timeline for the resolution of issue/s.</p>	

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
					<p>resolve the issues.</p> <p>Additionally, the TPs should be required to submit 5-minute actual data to the SO and the MO through other means such as email.</p>	<p>time it was reported.</p>		
Continuing Obligations and Responsibilities	5.10.4	(NEW)	<u>5.10.4 The System Operator shall be responsible for estimating real-time data that was reported to be erroneous or non-updating.</u>	To ensure accuracy of scheduling and pricing, it is proposed that the System Operator submit estimated real-time data when there are erroneous or non-updated information	<p>MERALCO:</p> <p>What is the existing practice in resolving erroneous or non-updating real-time data?</p> <p>How will the provided estimated real-time data affect</p>	<p>MERALCO:</p> <p><u>5.10.4 The System Operator shall be responsible for estimating real-time data that was reported to be erroneous or non-updating.</u></p> <p>The SO shall</p>	MERALCO: Agree.	<p>SO disagrees</p> <p>For IEMOP's revision – refinement of responsibilities between MO & SO to be sent to RCC via email</p>

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
					<p>the final pricing that will be used in the settlement?</p> <p>Given the potential impact to prices and settlement, the SO should provide the basis of its estimation to MO and all Trading Participants.</p>	<p><u>provide the basis of its estimation to the Market Operator and all Trading Participants.</u></p>		
Continuing Obligations and Responsibilities	5.10.5	(NEW)	<p><u>5.10.5 The Market Operator shall immediately inform the System Operator of any observed discrepancies in the real-time data.</u></p>	<p>Provide separate responsibility for IEMOP to report any observed discrepancies in the real-time data from SO</p>				Approved

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
MNM	6	MARKET TRADING NODE	MARKET TRADING NODE <u>MODELLING OF MARKET RESOURCES</u>	Reflect proposed general term for representations of generators, battery energy storage systems, pumped-storage unit, and loads	<p>PEMC:</p> <p>What is the effect of the proposed changes to metering?</p> <p>TC:</p> <p><i>For Clarification:</i> Is the section on Market trading Node removed altogether? We should be careful in removing that. We may include a new section on Modelling of Market Resources.</p>	NGCP:	<p>PEMC: This was done for clarity. This section specifies how “market resources” are actually modelled, not just MTNs.</p> <p>TC: This is okay. Again, this section was edited for clarity on which is actually being modelled in the MNM, and that is the market resource.</p>	<p>Approved</p> <p>Prof Jordan: Why remove MTN? can we not have both MTN and Resources</p>

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
					<p>NGCP:</p> <p>The System Operator's responsibility should only be limited to reporting erroneous or non-updating data. The SO dispatch group is focused on the Grid operations; it will have no time to provide estimates and manually input these every five (5) minutes.</p> <p>Furthermore, the Market Operator should make use of state estimation for the reported</p>	<p>The Market Operator shall be responsible for estimating real-time data that was reported to be erroneous or non-updating <u>by employing system tools like state estimator.</u></p>	<p>NGCP:</p> <p>IEMOP does not agree.</p> <p>As owner of data, it is SO's responsibility to ensure accuracy and quality of data</p> <p>IEMOP wants to retain original provision.</p>	

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
					erroneous or non-updating data.			
Market Trading Node	6.1.1	The Market Trading Node in the MNM, in physical terms, represents a power substation onto which energy is injected or withdrawn through power transformers or switching equipment. The transformers and switching equipment connect the transmission network operated by the System Operator and generating equipment,	The Market Trading Node in the MNM, in physical terms, represents a power substation onto which energy is injected or withdrawn through power transformers or switching equipment. The transformers and switching equipment connect the transmission network operated by the System Operator and generating equipment,	Revised for clarity	<p>TC:</p> <p>Notice that the removed article is totally different from this new article. Do we really want to remove the current article on MTN?</p> <p>NGCP:</p> <p>Market Resources should also consider other types of Energy Storage System (ESS), such as flywheel and hybrid systems,</p>		<p>TC: Yes.</p> <p>NGCP:</p> <p>Not necessary. If this is to be pursued, we need to propose changes again to the</p>	Approved

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		distribution network operated by Network Service Provider and load customers.	<p>distribution network operated by Network Service Provider and load customers.</p> <p><u>Market Resources shall be modelled in the market network model to represent a generator, battery energy storage system, pumped-storage unit, or load. Subject to Section 6.1.2, each market resource shall be classified as either a scheduling point or a market trading</u></p>		so as not to limit the modelling of ESS to Battery Energy Storage System and Pumped Storage System.		WESM Rules and other Market Manuals. ESS and Pump-storage resources are defined terms.	

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
			<u>node of the generator, battery energy storage system, pumped-storage unit, or load.</u>					
Market Trading Node	6.1.2	(NEW)	<u>It is possible to define only one market resource to represent both the scheduling point and the market trading node.</u>	Added to clarify that some market resources can represent both scheduling point and market trading node.	TC: Suggestion to capitalize Scheduling Point (since defined in the Glossary)	TC: <u>It is possible to define only one market resource to represent both the Scheduling Point and the market trading node.</u>	TC: Agree.	Approved. Italicized only
Market Trading Nodes	6.3	CLASSIFICATION OF MARKET TRADING NODES	CLASSIFICATION N TYPES OF MARKET TRADING NODES RESOURCES	Revised to use Market Resources.				Approved

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
Classification of Market Trading Nodes	6.3.1	<p>MTN's can be classified as:</p> <p>a) Generator nodes – nodes that represent a registered generating unit or generating system directly connected to a network operated by the System Operator. It is a node where power is injected into the transmission network.</p> <p>b) Customer nodes – nodes that represent where power is withdrawn by Trading Participants from the grid.</p>	<p>MTN's Market Resources can be classified as:</p> <p>a) Generator nodes resources – nodes resources that represent a registered generating unit or generating system directly connected to a network operated by the System Operator. It is a node resource where power is injected into the transmission network.</p> <p>b) Customer nodes resources – nodes resources that</p>	Replaced nodes with resources.	<p>PEMC:</p> <p>1. Please clarify the classification for consistency with Sections 6.1.1 and 4.4.2 to 4.4.7.</p> <p>2. Suggest using customer resource or load resource but not both.</p> <p>TC:</p> <p>Technically, nodes are different from resources that may be connected to each node. We recommend</p>		<p>PEMC:</p> <ol style="list-style-type: none"> They are consistent Agree to use load resource <p>TC: IEMOP thinks this is the basis of the change, which is to use resources.</p>	Approved

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		<p>c) Battery Energy Storage System nodes – nodes that represent a registered battery energy storage system directly connected to a network operated by the System Operator. It is a node where power is injected or withdrawn through the transmission network.</p> <p>d) Pumped-Storage Unit nodes – nodes that represent a registered pumped-storage unit directly connected to a network operated</p>	<p>represent where power is withdrawn by Trading Participants from the grid.</p> <p>c) Battery Energy Storage System nodes nodes resources – nodes resources that represent a registered battery energy storage system directly connected to a network operated by the System Operator. It is a node resource where power is injected or withdrawn through the</p>		<p>that resources and nodes are clearly differentiated and not to replace “nodes” with “resources”.</p>			

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		by the System Operator. It is a node where power is injected or withdrawn through the transmission network.	transmission network. d) Pumped-Storage Unit nodes resources – nodes resources that represent a registered pumped-storage unit directly connected to a network operated by the System Operator. It is a node resource where power is injected or withdrawn through the transmission network.					
Classification of Market Trading Nodes	6.3.2	Where available remote telemetering facilities are	<u>For generating units registered and modelled net of its station</u>	Revised for clarity	PEMC: Suggest using market		PEMC: Agree.	Approved

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		situated at a location net of the station service, the Trading Participant shall have a generator and a customer MTN registered in the WESM to accurately reflect the direction of power flow.	<u>use</u> Where available remote telemetering facilities are situated at a location net of the station service, the Trading Participant shall have a generator and a customer MTN resource registered in the WESM to accurately reflect the direction of power flow.		resource in replacing MTN. TC: <i>For Clarification:</i> What is a customer resource? How about customer load? Do we want to generalize resource aside from generators (earlier resource includes generator)		TC: As suggested, we can use load resource for the entire manual.	
Market Trading Node	6.4	CRITERIA FOR THE DEFINITION OF MTN	CRITERIA FOR THE DEFINITION OF MTN <u>GUIDELINES FOR</u>	Replace MTN with Market Resource	PEMC: To avoid misinterpretation and redundancy	PEMC: <u>GUIDELINES FOR MODELLING</u>	PEMC: Agree.	Approved

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		The following are the general criteria for the definition of MTN:	<u>MODELLING A MARKET RESOURCE</u> The following are the general criteria for the definition of MTN <u>guidelines in modelling the different market resources:</u>			<u>A MARKET RESOURCE</u> The following are the general criteria for the definition of MTN <u>guidelines in modelling the different market resources:</u>		
Criteria for the Definition of MTN	6.4.5	If the Trading Participant is a dispatchable generator connected to a distribution system (embedded facility), then its MTN and scheduling point shall be assigned to the nearest scheduling point	If the Trading Participant is a dispatchable generator connected to a distribution system (embedded facility), then its MTN and <i>scheduling point</i> shall be assigned to the nearest scheduling point	Revised for clarity and consistency on provisions relating to simplifications in the MNM.	MEI/PEI: <i>What is meant by “operationally connected” to the nearest substation? The term as used is quite vague. MEI and PEI suggest to use instead the term “indirectly</i>	MEI/PEI: 6.4.5 If the Trading Participant is a dispatchable generator connected to a distribution system (embedded facility), then its MTN and <i>scheduling point</i> shall be	MEI/PEI: Agree.	For IEMOP's checking in relation to 5.3.2 (for deletion – to be confirmed)

Annex B – Matrix of Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		<p>represented in the MNM. Adjustments to the real-time monitoring of the Customer scheduling point shall be made accordingly to reflect the total power consumed by that Customer scheduling point accounting for the power generated by the dispatchable generator situated downstream.</p>	<p>represented in the MNM <u>substation to which it is operationally connected.</u> Adjustments to the real-time monitoring of the Customer <i>scheduling point</i> shall be made accordingly to reflect the total power consumed by that Customer <i>scheduling point</i> accounting for the power generated by the dispatchable generator situated downstream <u>consistent with the provisions</u></p>		<p><i>connected". This is consistent with the definition of an embedded generator as a generating unit indirectly connected to the grid through the system of the host distribution utility.</i></p>	<p>assigned to the nearest <i>scheduling point</i> represented in the MNM <u>substation to which it is indirectly connected.</u> Adjustments to the real-time monitoring of the Customer <i>scheduling point</i> shall be made accordingly to reflect the total power consumed by that Customer <i>scheduling point</i> accounting for the power generated by the dispatchable</p>		

Annex B – Matrix of Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
			<u>in clause 5.3.2 (d).</u>		<p>TC:</p> <p><i>For Clarification:</i> Formally, how do we define "operationally connected"? Do we analyze power flows? How about for non-radial downstream?</p>	generator situated downstream <u>consistent with the provisions in clause 5.3.2 (d).</u>	TC: MEI/PEI proposal already clarifies this.	
Criteria for the Definition of MTN	6.4.5	If the Trading Participant is a dispatchable generator	If the Trading Participant is a dispatchable generator	Revised for clarity and consistency on provisions relating to				Approved for deletion

Annex B – Matrix of Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		connected to a distribution system (embedded facility), then its MTN and scheduling point shall be assigned to the nearest scheduling point represented in the MNM. Adjustments to the real-time monitoring of the Customer scheduling point shall be made accordingly to reflect the total power consumed by that Customer scheduling point accounting for the power generated by the dispatchable	connected to a distribution system (embedded facility), then its MTN and scheduling point shall be assigned to the nearest scheduling point represented in the MNM <u>substation to which it is operationally connected.</u> Adjustments to the real-time monitoring of the Customer scheduling point shall be made accordingly to reflect the total power consumed by that Customer scheduling point	simplifications in the MNM. For deletion since 5.3.2 (d) already covers this provision				

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		generator situated downstream.	accounting for the power generated by the dispatchable generator situated downstream <u>consistent with the provisions in clause 5.3.2 (d).</u>					
Criteria for the Definition of MTN	6.4.6	A generating facility shall be modelled as a scheduling point.	A generating facility shall be modelled as a scheduling point.	Suggest to delete since generating resources can have both MTNs and scheduling points				Approved
MNM	6.5	GENERATOR MTN	GENERATOR MTN <u>RESOURCE</u>	Replace MTN with resource	PEMC: Suggest using market resource for consistency with the proposed definition.	PEMC: GENERATOR MTN <u>MARKET RESOURCE</u>	PEMC: Agree.	Approved

Annex B – Matrix of Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
Generator MTN	6.5.1	A MTN is considered a generator node if energy is supplied into that node and the direction of the power flow is from the apparatus or equipment (i.e. generator) operated by the Trading Participant to the network operated by the Network Service Providers, including the System Operator.	A MTN is considered a generator node if energy is supplied into that node and the direction of the power flow is from the apparatus or equipment (i.e. generator) operated by the Trading Participant to the network operated by the Network Service Providers, including the System Operator.	Propose to delete since definition is already indicated in section 6.3.1				Approved
Generator MTN	6.5.2	6.5.2 During the submission of offers to supply electricity, the participant	6.5.2 During the submission of offers to supply electricity, the participant	Re-numbered. Revised for clarity where the scheduling point	PEMC: 1. Suggest using market resource for		PEMC: 1. Agree 2. Clause 6.5.4 has a different	Approved as revised

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		generator shall specify the location of the connection point and the relevant market network node.	<p>generator shall specify the location of the connection point and the relevant market network node. 6.5.1 <u>During the registration of the generator resource, the Trading Participant shall specify if the scheduling point should represent the gross MW output of the generator or at the same location as the market trading node, which is at the connection point and net of</u></p>	shall be the reckoning/reference point capacity registration until dispatch compliance monitoring. Settlement is reckoned at the market trading node.	<p>consistency with the proposed definition.</p> <p>2.Proposal must be merged with Proposed General Amendments to MO-SO Procedures Section 6.5.4. Needs renumbering.</p> <p>MEI/PEI: <i>Minor clerical edit (insertion of the word "is")</i></p>	<p>MEI/PEI: <u>6.5.1 During the registration of the generator resource, the Trading Participant shall specify if the</u></p>	<p>purpose than this clause. Hence, it should be written separately.</p> <p>MEI/PEI: Suggest to maintain original provision.</p>	No change from previous decision

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
			<p><u>its station use.</u> <u>The location of the scheduling point shall be the reference point for the registered capacity, submission of generation offers and self-scheduled nominations, scheduling, dispatch, and dispatch compliance monitoring.</u></p>			<p><u>scheduling point should represent the gross MW output of the generator or is at the same location as the market trading node, which is at the connection point and net of its station use. The location of the scheduling point shall be the reference point for the registered capacity, submission of generation offers and self-scheduled</u></p>		

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
					<p>NGCP:</p> <p>The Market Trading Node (MTN), which is supposedly the monitoring of net generation of the plant (less station use), needs to be checked and be made consistent with the existing analog monitoring in the Master Station. There</p>	<p><u>nominations, scheduling, dispatch, and dispatch compliance monitoring.</u></p>	<p>NGCP:</p> <p>This is why this change is being proposed to ensure consistency from registration to scheduling to dispatch, and until dispatch compliance.</p>	

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
					are plants that have their analog monitoring or telemetry measure gross while others measure net.			
Generator MTN	6.5.3	6.5.3 xxx	6.5.3 6.5.2 xxx	Re-numbered.				Approved
MNM	6.6	CUSTOMER MTN	CUSTOMER MTN <u>RESOURCE</u>	Replace MTN with resource	PEMC: Suggest using customer resource or load resource but not both.			Approved
Customer MTN	6.6.1	A customer node is the point where energy is withdrawn by the WESM participant and the direction of the power flow is from the network operated by the Network Service	A customer node is the point where energy is withdrawn by the WESM participant and the direction of the power flow is from the network operated by the Network Service	Propose to delete original provision since definition is already indicated in section 6.3.1. Replaced instead with current modelling practice for customer resources.	PEMC: Suggest using market resource for consistency with the proposed definition.		PEMC: Agree.	Approved

Annex B – Matrix of Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		<p>Providers, including the System Operator, to the energy consuming apparatus or equipment (i.e. load) owned by or connected to the customer trading participant.</p>	<p>Providers, including the System Operator, to the energy consuming apparatus or equipment (i.e. load) owned by or connected to the customer trading participant.</p> <p><u>Should there be limitations for a customer resource to be modelled at the connection point (e.g. availability of real-time monitoring facilities), the Market Operator may implement</u></p>					

Annex B – Matrix of Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
			<u>simplifications and approximations to its representation in the market network model while still ensuring its consistency and accuracy with its actual connection to the grid.</u>					
MNM	6.7	BATTERY ENERGY STORAGE SYSTEM MTN	BATTERY ENERGY STORAGE SYSTEM MTN <u>RESOURCE</u>	Replace MTN with resource	PEMC: Suggest using market resource for consistency with the proposed definition.		PEMC: Agree.	Approved
Battery Energy Storage System	6.7.1	A MTN is considered a battery energy storage system	A MTN is considered a battery energy storage system	Propose to delete original provision since definition is				Approved

Annex B – Matrix of Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		node if energy is injected or withdrawn through that node and the direction of the power flow is from the apparatus or equipment operated by the Trading Participant to the network operated by the Network Service Providers, including the System Operator.	node if energy is injected or withdrawn through that node and the direction of the power flow is from the apparatus or equipment operated by the Trading Participant to the network operated by the Network Service Providers, including the System Operator.	already indicated in section 6.3.1.				
Battery Energy Storage System	6.7.2	6.7.2 During the submission of offers to supply or consume electricity, the participant battery energy	6.7.2 During the submission of offers to supply or consume electricity, the participant battery energy	Re-numbered. Revised for clarity where the scheduling point shall be the reckoning/referenc	PEMC: Suggest using market resource for consistency with the		PEMC: Agree.	Approved

Annex B – Matrix of Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		storage system shall specify the location of the connection point and the relevant market network node.	<p>storage system shall specify the location of the connection point and the relevant market network node.</p> <p><u>6.7.1 During the registration of the battery energy storage system resource, the Trading Participant shall specify if the scheduling point should represent the gross MW output of the generator or at the same location as the market trading node, which is at the</u></p>	e point capacity registration until dispatch compliance monitoring. Settlement is reckoned at the market trading node.	<p>proposed definition.</p> <p>MEI/PEI:</p> <p><i>Minor clerical edit (insertion of the word "is")</i></p>	<p>MEI/PEI:</p> <p><u>6.7.1 During the registration of the battery energy storage system resource, the Trading Participant shall specify if the scheduling point should represent the gross MW output of the generator or is at the same location as the market trading node,</u></p>	MEI/PEI: Suggest to maintain original provision.	

Annex B – Matrix of Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
			<u>connection point and net of its station use. The location of the scheduling point shall be the reference point for the registered capacity, submission of generation offers and self-scheduled nominations, scheduling, dispatch, and dispatch compliance monitoring.</u>			<u>which is at the connection point and net of its station use. The location of the scheduling point shall be the reference point for the registered capacity, submission of generation offers and self-scheduled nominations, scheduling, dispatch, and dispatch compliance monitoring.</u>		
Battery Energy Storage System	6.7.3	6.7.3 xxx	6.7.3 <u>6.7.2</u> xxx	Re-numbered.				Approved

Annex B – Matrix of Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
MNM	6.8	PUMPED-STORAGE UNIT MTN	PUMPED-STORAGE UNIT MTN <u>RESOURCE</u>	Replace MTN with resource	PEMC: Suggest using market resource for consistency with the proposed definition.		PEMC: Agree	Approved
Pumped-Storage Unit	6.8.1	A MTN is considered a pumped-storage unit node if the facility is a pumped-storage plant where energy can either be injected or withdrawn through that node and the direction of the power flow is from the apparatus or equipment operated by the	A MTN is considered a pumped-storage unit node if the facility is a pumped-storage plant where energy can either be injected or withdrawn through that node and the direction of the power flow is from the apparatus or equipment operated by the	Propose to delete original provision since definition is already indicated in section 6.3.1.				Approved

Annex B – Matrix of Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		Trading Participant to the network operated by the Network Service Providers, including the System Operator.	Trading Participant to the network operated by the Network Service Providers, including the System Operator.					
Pumped-Storage Unit	6.8.2	6.8.2 During the submission of offers to supply or consume electricity, the participant battery energy storage system shall specify the location of the connection point and the relevant market network node.	6.8.2 During the submission of offers during generation mode, the participant pumped-storage unit shall specify the location of the connection point and the relevant market network node <u>6.8.1 During the registration of the pumped-storage unit resource, the</u>	Re-numbered. Revised for clarity where the scheduling point shall be the reckoning/reference point capacity registration until dispatch compliance monitoring. Settlement is reckoned at the market trading node.	PEMC: Suggest using market resource for consistency with the proposed definition. MEI/PEI: <i>Minor clerical edit (insertion of the word "is")</i>	MEI/PEI: <u>6.8.1 During the registration of the pumped-</u>	PEMC: Agree MEI/PEI: Suggest to retain original provision.	Approved

Annex B – Matrix of Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
			<p><u>Trading Participant shall specify if the scheduling point should represent the gross MW output of the generator or at the same location as the market trading node (i.e. at the connection point, which is at the connection point and net of its station use. The location of the scheduling point shall be the reference point for the registered capacity, submission of</u></p>			<p><u>storage unit resource, the Trading Participant shall specify if the scheduling point should represent the gross MW output of the generator or is at the same location as the market trading node (i.e. at the connection point, which is at the connection point and net of its station use. The location of the scheduling point shall be</u></p>		

Annex B – Matrix of Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
			<u>generation offers and self-scheduled nominations, scheduling, dispatch, and dispatch compliance monitoring.</u>			<u>the reference point for the registered capacity, submission of generation offers and self-scheduled nominations, scheduling, dispatch, and dispatch compliance monitoring.</u>		
Pumped-Storage Unit	6.8.3	6.8.3 xxx	6.8.3 <u>6.8.2</u> xxx	Re-numbered.				Approved
MNM	6.9	PROCEDURE FOR MTN IDENTIFICATION	PROCEDURE FOR MTN IDENTIFICATION AND REGISTRATION OF MARKET RESOURCES	Revised to better describe the section.				Approved
Procedure for MTN Identification	6.9.2	The Market Operator and the System	The Market Operator and the System	Revised for clarity.	TC:		TC: No. Proposal may	Approved

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Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
		Operator, in coordination with the Trading Participant, shall determine the MTN based on the criteria set out in Section 6.4 - Criteria For Definition of MTN of this document.	Operator, in coordination with the Trading Participant, shall determine the MTN <u>market resource model</u> based on the <u>criteria guidelines</u> set out in of Section 6.4 - Criteria For Definition of MTN of this document. <u>The agreed market resource model shall be determined in accordance with the procedures under the WESM Market Manual on Registration, Suspension,</u>		For Clarification: Is there a menu of market resource models (aside from Gen, Load, BESS and Pumped hydro)? If none, suggest to specify in this section all four resource models.		not be necessary.	

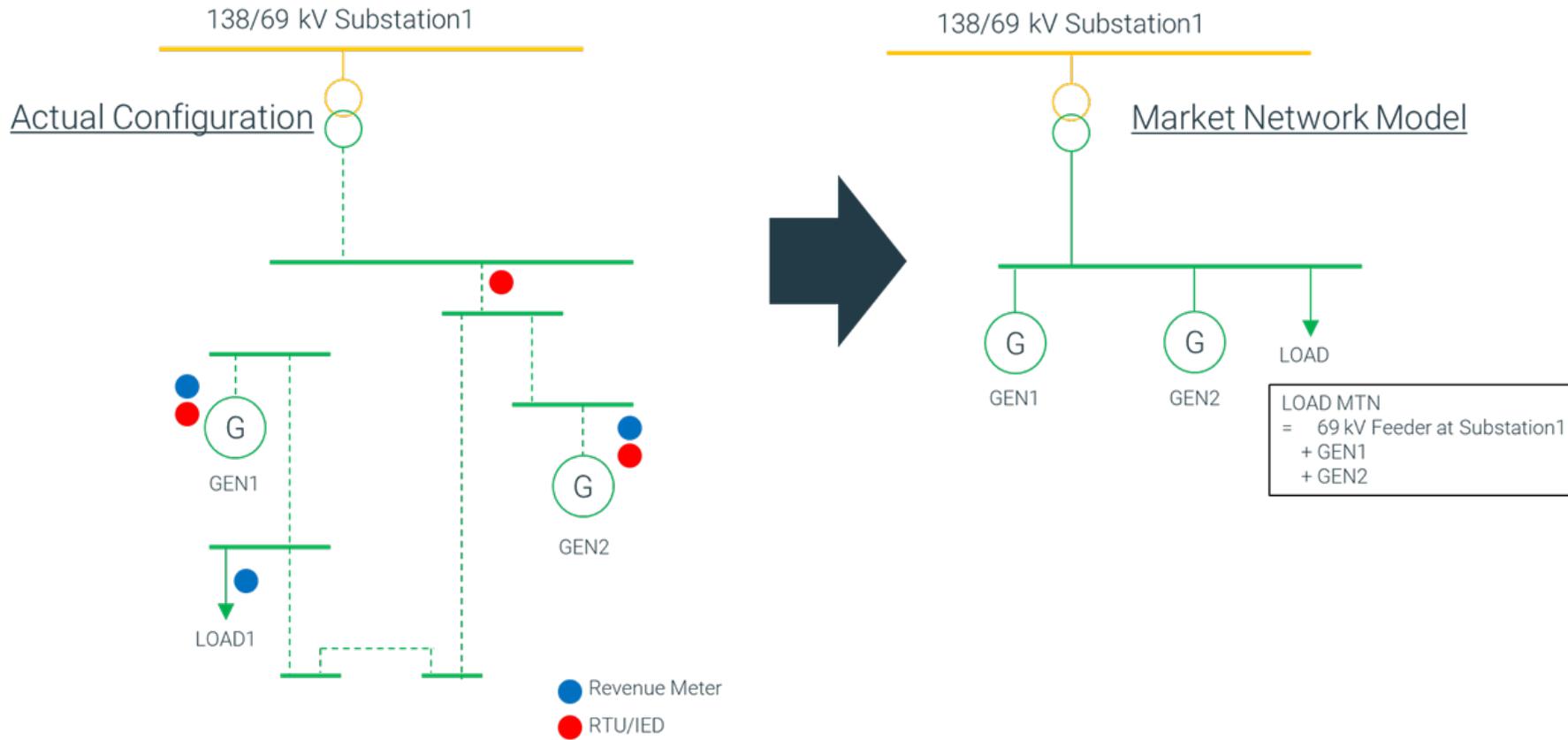
Annex B – Matrix of Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Revised Wording based on Comments	Proponent's Response	RCC Decision
			<u>and De-Registration Criteria and Procedures.</u>					

Note: Please underline and put in bold letters the proposed changes to the Market Rules or Manual.

Annex B – Matrix of Proposed General Amendments to WESM Manuals for Improvements to Market Resource Modelling and Monitoring

Appendix A. Illustration of Simplified Model for Embedded Generators



Annex C – Proposed General Amendments to WESM Rules and Various WESM Manuals for Enhancements to Market Operator-System Operator Procedures

C. WESM Rules

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Proposed Wording based on Comments	Proponent's Response	RCC Agreement
					<i>Write general comments here, if any.</i>			
Overriding Constraints	3.5.13.1	xxx The <i>System Operator</i> shall advise the <i>Market Operator</i> of the actions it has taken in relation to the foregoing, including but not limited to information necessary for the proper settlement of affected <i>generating units</i> , and the <i>Market Operator</i> shall publish the said information no later than one (1) week from the relevant trading day. For proper settlement of must-run units, <i>Trading Participants</i>	xxx The <i>System Operator</i> shall advise the <i>Market Operator</i> of the actions it has taken in relation to the foregoing, including but not limited to information necessary for the proper settlement of affected <i>generating units</i> , and the <i>Market Operator</i> shall publish the said information no later than one (1) week from the relevant trading day. For proper settlement of must-run units, <i>Trading Participants</i>	To reinforce responsibility of Trading Participants (TP) in reporting their limitations if unable to follow RTD schedule and to encourage TP's active review of SO reports as part of their responsibilities. To be consistent with the proposed change of SO's reporting of their dispatch instructions, containing all dispatch instructions from the System Operator (e.g.	TC: Information from the SO shall be taken from the Dispatch Instruction Reports provided to IEMOP APC: Why is it not possible to publish the "Dispatch Instruction Report" a day or two after the relevant trading day for such information to be reviewed and validated? Useful information can be inferred from such reports by compliance officers who are supposed to	APC: The <i>System Operator</i> shall advise the <i>Market Operator</i> of the actions it has taken in relation to the foregoing, including but not limited to information necessary for the proper settlement of affected <i>generating unit</i> , and the <i>Market</i>	TC: Please clarify question/suggestion. APC: MO can publish this report from SO as suggested. However, this should be consistent with WESM IDC Manual.	Approved proposal

Annex C – Proposed General Amendments to WESM Rules and Various WESM Manuals for Enhancements to Market Operator-System Operator Procedures

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Proposed Wording based on Comments	Proponent's Response	RCC Agreement
		shall review the information and notify the <i>Market Operator</i> of any discrepancies no later than two (2) weeks from the date of publication, otherwise the information contained in the report shall be deemed final for use in the settlement of <i>must-run units</i> . (As amended by DOE DC NO.2015-11-0016 dated 12 November 2015 and further amended by DOE DC No. 2018-04-0007 dated 28 March 2018)	shall review the information and notify the <i>Market Operator</i> of any discrepancies no later than two (2) weeks from the date of publication, otherwise the information contained in the report shall be deemed final, for use in the settlement of <i>must-run units</i> . (As amended by DOE DC NO.2015-11-0016 dated 12 November 2015 and further amended by DOE DC No. 2018-04-0007 dated 28 March 2018)	dispatch of must-run units), instead of dispatch deviations of generating units. Further, per proposed changes in DP Section 14.4.7, the SO Report will be named as "Dispatch Instruction Report".	respond to a Notice in 3 days anyway, based on existing protocols.	<i>Operator</i> shall publish the said information no later than one (1) week three (3) days from the relevant trading day. For proper settlement of must-run units , <i>Trading Participants</i> shall review the information and notify the <i>Market Operator</i> of any discrepancies no later than two (2) weeks from the date of publication, otherwise the information contained in the report shall be deemed final, for use in the settlement of must-run units .		

Annex C – Proposed General Amendments to WESM Rules and Various WESM Manuals for Enhancements to Market Operator-System Operator Procedures

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Proposed Wording based on Comments	Proponent's Response	RCC Agreement
Responsibilities of the System Operator	3.8.2	<p>3.8.2.2 After each one (1) hour interval, in accordance with the <i>timetable</i>, the <i>System Operator</i> shall advise the <i>Market Operator</i> of:</p> <p>a. xxx xxx</p> <p>The <i>System Operator</i> shall likewise provide a <i>dispatch</i> deviation report to the <i>Market Operator</i>, in accordance with the <i>timetable</i>, detailing among others the circumstances and <i>dispatch</i> levels of units that were <i>constrained-on</i> or <i>constrained-off</i> or put on must-run during that one (1) hour <i>interval</i>.</p>	<p>3.8.2.2 After each one (1) hour interval, in accordance with the <i>timetable</i>, the <i>System Operator</i> shall advise the <i>Market Operator</i> of:</p> <p>a. xxx xxx</p> <p>The <i>System Operator</i> shall likewise provide a <i>dispatch</i> deviation <i>instruction</i> report to the <i>Market Operator</i>, in accordance with the <i>timetable</i>, detailing among others the circumstances and <i>dispatch</i> levels of units that were <i>constrained-on</i> or <i>constrained-off</i> or put on must-run during that one (1) hour <i>interval</i>.</p>	To change of report name to Dispatch Instruction Report consistent with proposed changes to WESM DP	<p>TC: Information from the SO shall be taken from the Dispatch Instruction Reports provided to IEMOP</p> <p>APC: Concur</p>		TC: Please clarify question/suggestion	<p>SO: dispatch instruction report is generic</p> <p>Approved proposal.</p>

Annex C – Proposed General Amendments to WESM Rules and Various WESM Manuals for Enhancements to Market Operator-System Operator Procedures

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Proposed Wording based on Comments	Proponent's Response	RCC Agreement
System Operator Implementation of Real-Time Dispatch	3.8.3.4	Subject to Clause 3.8.3.4, if, in real-time, the available <i>generation</i> from a <i>must dispatch generating unit</i> differs from the available <i>generation</i> assumed in the <i>dispatch schedule</i> provided to the <i>System Operator</i> , the <i>System Operator</i> shall allow the <i>must dispatch generating unit</i> to generate at its <i>maximum available output</i> , and, if all available <i>frequency</i> regulation is exhausted during a <i>dispatch interval</i> , shall adjust the <i>dispatch</i> of other <i>generating units</i> , to compensate as required in accordance with relevant <i>Market Manuals</i> .	Subject to Clause 3.8.3.4 3 , if, in real-time, the available <i>generation</i> from a <i>must dispatch generating unit</i> differs from the available <i>generation</i> assumed in the <i>dispatch schedule</i> provided to the <i>System Operator</i> , the <i>System Operator</i> shall allow the <i>must dispatch generating unit</i> to generate at its <i>maximum available output</i> , and, if all available frequency <i>regulation</i> is is <u>regulating reserves are</u> exhausted during a <i>dispatch interval</i> , shall adjust the <i>dispatch</i> of other <i>generating units</i> , to compensate as required in accordance with	Revised reference clause to 3.8.3.3. For consistency with the proposed changes in the WESM DP on	APC: Proposed to retain. The other ancillary services (CR and DR, which are frequency regulation services) should be exhausted first before using the output of the other generating units.		This is for SO's concurrence. MO notes that CR and DR are capacities of "last resort", only after MOT and MRU have been exhausted as well.	SO: RR does not need to be depleted to accommodate must-dispatch gen units at max available output <i>*no decision, parked</i>

Annex C – Proposed General Amendments to WESM Rules and Various WESM Manuals for Enhancements to Market Operator-System Operator Procedures

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Proposed Wording based on Comments	Proponent's Response	RCC Agreement
			relevant <i>Market Manuals</i> .					
Dispatch Conformance Standards	3.8.5	3.8.5.6 In cases when a <i>generating unit</i> was identified as a <i>Must-Stop Unit</i> , the <i>System Operator</i> shall include such in the Dispatch Deviation Report.	3.8.5.6 In cases when a <i>generating unit</i> was identified as a <i>Must-Stop Unit</i> , the <i>System Operator</i> shall include such in the Dispatch Deviation Instruction Report.	Change of report name to Dispatch Instruction Report consistent with proposed changes to WESM DP	APC: Concur			Approved
Glossary		xxxx Contingency Reserve. The ability to respond so as to arrest a significant drop in system frequency such as would arise as a result of a credible contingency affecting one (or more) <i>generating units</i> within a region, or transmission flows into a region.	xxxx Contingency Reserve. The ability to respond so as to arrest a significant drop in system frequency such as would arise as a result of a credible contingency affecting one (or more) <i>generating units</i> within a region, or transmission flows into a region.	To harmonize with DOE DC2019-12-0018 (regulating, contingency, dispatchable).	TC: Shall be consistent with the definitions in the PGC. APC: Is it correct to assume that we are now abandoning the new set of Reserve classifications defined under PGC 2016 edition which might cause conflict on interpretation later on?		TC: This is consistent with DOE DC APC: Yes. For consistency as provided by the DOE DC.	Approved

Annex C – Proposed General Amendments to WESM Rules and Various WESM Manuals for Enhancements to Market Operator-System Operator Procedures

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Proposed Wording based on Comments	Proponent's Response	RCC Agreement
		xxxx	<p><u>Synchronized generation capacity from qualified generating units and qualified interruptible loads allocated to cover the loss or failure of a synchronized generating unit or a transmission element or the power import from a circuit interconnection.</u></p> <p>xxxx</p> <p>Dispatchable Reserve. The ability to respond to a re-dispatch performed by the System operator during a trading interval, on either a regular or an ad hoc basis.</p> <p>xxxx</p> <p><u>Generating capacity that is not</u></p>					

Annex C – Proposed General Amendments to WESM Rules and Various WESM Manuals for Enhancements to Market Operator-System Operator Procedures

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Proposed Wording based on Comments	Proponent's Response	RCC Agreement
		Regulating Reserve. The ability to adjust generation continuously in	<p><u>scheduled for regular energy supply, regulating reserve, contingency reserve, or interruptible loads not scheduled for contingency reserve, and that are readily available for dispatch in order to replenish the contingency reserve service whenever a generating unit trips or a loss of a single transmission interconnection occurs.</u></p> <p>xxxx</p> <p>Regulating Reserve. The ability to adjust generation continuously in</p>					

Annex C – Proposed General Amendments to WESM Rules and Various WESM Manuals for Enhancements to Market Operator-System Operator Procedures

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Proposed Wording based on Comments	Proponent's Response	RCC Agreement
		<p>response to small frequency changes, so a so as to cover load fluctuations or minor breakdowns, defined as an <i>ancillary service</i> in clause 3.3.4.2 (a).</p>	<p>response to small frequency changes, so a so as to cover load fluctuations or minor breakdowns, defined as an <i>ancillary service</i> in clause 3.3.4.2 (a). <u>Readily available and dispatchable generating capacity that is allocated exclusively to correct deviations from the acceptable nominal frequency caused by unpredictable variations in demand or generation output.</u></p>					

Annex C – Matrix of Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures

D. WESM Manual on Dispatch Protocol Issue 13.2

Title	Clause	Provision	Proposed Amendment	Rationale	Comments	Proposed Wording based on Comments	Proponent's Response	RCC Agreement
					<i>Write general comments here, if any.</i>			
DEFINITIONS	2.1.2	<p>XXX</p> <p>u. Primary Reserve. Synchronized generating capacity that is allocated to stabilize the system frequency and to cover the loss or failure of a synchronized <i>generating unit</i> or a <i>transmission line</i> or the power import from a single circuit interconnection, as defined in the <i>Grid Code</i>. Also referred to as <i>contingency reserves</i>.</p> <p>XXX</p> <p>w. Red Alert. An alert issued by the <i>System Operator</i> when the <i>Primary Reserve</i> is zero, a <i>generation</i> deficiency exists, or there is critical loading or imminent overloading of</p>	<p>XXX</p> <p>a. Ancillary Service Procurement Agreement. A contractual agreement under which a WESM Member, registered as an Ancillary Service Provider, agrees with the System Operator to provide ancillary services.</p> <p>b. Automatic Generation Control. The regulation of the power output of generating units to respond to a change in system frequency or tie-line loading, as defined in the Grid Code, or to meet its target loading level.</p>	<p>To add definition of an ancillary service procurement agreement, which will be referred to in later sections.</p> <p>To add definition of automatic generation control, which will be referred to in later sections.</p>	<p>TC: How about "... as described in PGC", otherwise adopt PGC definition of AGC.</p> <p>Just qualify if the use of AGC in this section is the process or the system control.</p> <p>Suggest to just change the definition of System Snapshot instead of change the term to Real-Time data since IEMOP sets their system to capture data</p>		<p>TC: Suggest to retain.</p> <p>AGC refers to control.</p> <p>Note that IEMOP is linked to SO's real-time data via ICCP, thus the change/ switch to real-time data.</p>	<p>Adopt</p> <p>APC:</p> <p>b. Automatic Generation Control. The automatic regulation of the power output of generating units to respond to a change in system frequency or tie-line loading, as defined in the Grid Code, or to meet its target loading level.</p>

Annex C – Matrix of Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures

		<p><i>transmission lines</i> or equipment.</p> <p>XXX</p> <p>x. Secondary Reserve. Synchronized generating capacity that is allocated to restore the system frequency to the nominal frequency of 60Hz, as defined on the Grid Code. Also referred to as <i>regulating reserves</i>.</p> <p>XXX</p> <p>ff. System Snapshot. Otherwise known as EMS Snapshot. The <i>system snapshot</i> contains MW loadings of <i>generators</i> and <i>loads</i>. The <i>system snapshot</i> also indicates connection status of the power system.</p> <p>XXX</p> <p>hh. Tertiary Reserve. Capacity used in order to replenish the <i>Secondary Reserve</i> and for such</p>	<p>a- c. Automatic Load Dropping (ALD). xxx</p> <p>b- d. Availability. xxx</p> <p>e- e. Bid. xxx</p> <p>d- f. Capability. xxx</p> <p>e- g. Cascading Outages. xxx</p> <p>f- h. Contingency. xxx</p> <p>u- i. Primary Contingency Reserve. Synchronized generating capacity that is allocated to stabilize the system frequency and to cover the loss or failure of a synchronized generating unit or a transmission line or the power import from a single circuit interconnection, as defined in the Grid Code. Also referred to as contingency reserves. Synchronized generation capacity from qualified generating units and qualified interruptible loads allocated to cover the loss or failure of a synchronized generating unit or a transmission element or the power import from a circuit interconnection.</p> <p>g- j. Demand Control. xxx</p>	<p>To harmonize with DOE DC2019-12-0018 (regulating, contingency, dispatchable) . This is the definition of Contingency reserve in said DOE DC.</p>	<p>from the SO on an interval basis.</p> <p>APC:</p> <p>For clarity. Is it correct to assume that we are now abandoning the new set of Reserve classifications defined under PGC 2016 edition which might cause conflict on interpretation later on?</p> <p>How to harmonize with the previous definition of ancillary services?</p>	<p>APC:</p> <p><u>b. Automatic Generation Control. The automatic regulation of the power output of generating units to respond to a change in system frequency or tie-line loading, as defined in the Grid Code, or to meet its target loading level.</u></p>	<p>APC: Reserve Types are based on DOE DC.</p> <p>Agree</p>	
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Annex C – Matrix of Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures

		<p>other cases, as defined in the <i>Grid Code</i>.</p>	<p>h- k. Demand Control Imminent Warning. xxx</p> <p>hh- <u>I. Tertiary Dispatchable Reserve.</u> Capacity used in order to replenish the Secondary Reserve and for such other cases, as defined in the <i>Grid Code</i>. <u>Generating capacity that is not scheduled for regular energy supply, regulating reserve, contingency reserve, or interruptible loads not scheduled for contingency reserve, and that are readily available for dispatch in order to replenish the Contingency Reserve service whenever a generating unit trips or a loss of a single transmission interconnection occurs.</u></p> <p>i- m. Disturbance. xxx j- n. Frequency control. xxx k- o. Generator. xxx l- p. Load shedding. xxx m- q. Manual Load Dropping. xxx n- r. Market Management System (MMS). xxx</p>	<p>To harmonize with DOE DC2019-12-0018 (regulating, contingency, dispatchable) . This is the definition of Dispatchable reserve in said DOE DC.</p>				
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Annex C – Matrix of Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures

			<p> e- <u>s.</u> Maximum available capacity. xxx p- <u>t.</u> MMS-Market Participant Interface (MPI). xxx q- <u>u.</u> Multiple Outage Contingency. xxx r- <u>v.</u> Offer. xxx s- <u>w.</u> Operating margin. xxx t- <u>x.</u> Preferential Dispatch Units. xxx ff- <u>y.</u> System Snapshot Real-Time Data. Otherwise known as EMS Snapshot. The <i>system snapshot</i> contains analog measurements (MW loadings and MVAR) of generators and loads. The <i>system snapshot</i> also indicates and the connection status of power system breakers and disconnect switches. v- <u>z.</u> Real-Time Dispatch. xxx w- <u>aa.</u> Red Alert. An alert issued by the <i>System Operator</i> when the <i>Primary Contingency Reserve</i> is zero, a <i>generation deficiency</i> exists, or there is <i>critical loading</i> or <i>imminent</i> </p>	<p>To reflect change in type of data received with the use of Inter-Control Centre Communications Protocol (ICCP) of the NMMS.</p>			
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Annex C – Matrix of Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures

			<p>overloading of <i>transmission lines</i> or equipment.</p> <p>x- bb. <u>Secondary Regulating Reserve.</u> Synchronized generating capacity that is allocated to restore the system frequency to the nominal frequency of 60Hz, as defined on the Grid Code. Also referred to as <i>regulating reserves</i>. <u>Readily available and dispatchable generating capacity that is allocated exclusively to correct deviations from the acceptable nominal frequency caused by unpredicted variations in demand or generation output.</u></p> <p>y- cc. Security. xxx z- dd. Self-scheduled nomination. xxx aa- ee. Shutdown. xxx bb- ff. Stability. xxx ee- gg. Start-up. xxx dd- hh. System Integrity Protection Scheme (SIPS). xxx ee- ii. System Operator System Advisories. xxx ff- System Snapshot. xxx</p>					
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To harmonize with DOE DC2019-12-0018 (regulating, contingency, dispatchable) . This is the definition of Regulating reserve in said DOE DC.

Annex C – Matrix of Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures

			<p>gg. jj. Technical Constraint. xxx hh. Tertiary Reserve. xxx ii. kk. Voltage Control. xxx jj. ll. Voltage Instability. xxx kk. mm. Voltage Sag. xxx</p>																																														
WESM TIMETAB LE	4.4	<p>Table 2. DAP Timeline</p> <table border="1"> <thead> <tr> <th>Time</th> <th>Activity</th> <th>Responsible Party</th> </tr> </thead> <tbody> <tr> <td>XXX</td> <td>XXX</td> <td>XXX</td> </tr> <tr> <td>Before [STP H1 + 1 minute]</td> <td>Provide updates on the following, if any: a. XXX b. XXX c. XXX d. XXX e. <i>Real-time system snapshot</i> f. XXX g. XXX</td> <td><i>System Operator</i></td> </tr> <tr> <td>XXX</td> <td>XXX</td> <td>XXX</td> </tr> <tr> <td>XXX</td> <td>XXX</td> <td>XXX</td> </tr> <tr> <td>XXX</td> <td>XXX</td> <td>XXX</td> </tr> <tr> <td></td> <td>XXX</td> <td>XXX</td> </tr> </tbody> </table>	Time	Activity	Responsible Party	XXX	XXX	XXX	Before [STP H1 + 1 minute]	Provide updates on the following, if any: a. XXX b. XXX c. XXX d. XXX e. <i>Real-time system snapshot</i> f. XXX g. XXX	<i>System Operator</i>	XXX		XXX	XXX	<p>Table 2. DAP Timeline</p> <table border="1"> <thead> <tr> <th>Time</th> <th>Activity</th> <th>Responsible Party</th> </tr> </thead> <tbody> <tr> <td>XXX</td> <td>XXX</td> <td>XXX</td> </tr> <tr> <td>Before [STP H1 + 1 minute]</td> <td>Provide updates on the following, if any: a. XXX b. XXX c. XXX d. XXX e. <i>Real-time system snapshot <u>data</u></i> f. XXX g. XXX</td> <td><i>System Operator</i></td> </tr> <tr> <td>XXX</td> <td>XXX</td> <td>XXX</td> </tr> <tr> <td>XXX</td> <td>XXX</td> <td>XXX</td> </tr> <tr> <td>XXX</td> <td>XXX</td> <td>XXX</td> </tr> <tr> <td></td> <td>XXX</td> <td>XXX</td> </tr> </tbody> </table>	Time	Activity	Responsible Party	XXX	XXX	XXX	Before [STP H1 + 1 minute]	Provide updates on the following, if any: a. XXX b. XXX c. XXX d. XXX e. <i>Real-time system snapshot <u>data</u></i> f. XXX g. XXX	<i>System Operator</i>	XXX		XXX	XXX	To reflect change in type of data received with the use of ICCP of the NMMS	<p>TC: "system snapshot" is a suitable qualifier for the real-time data; without which "real-time data" is too broad, even vague. See 7.9.1 below.</p> <p>APC: Concur</p>	TC: Suggest to retain based on previous explanation.	Approved																
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Annex C – Matrix of Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures

WESM TIMETAB LE	4.5	<p>Table 4. HAP Timeline</p> <table border="1"> <thead> <tr> <th>Time</th> <th>Activity</th> <th>Responsible Party</th> </tr> </thead> <tbody> <tr> <td>XXX</td> <td>XXX</td> <td>XXX</td> </tr> <tr> <td>Before [STDI 1 – 7 minutes]</td> <td>Provide updates on the following, if any: <ul style="list-style-type: none"> • XXX • XXX • XXX • XXX • XXX • Real-time system snapshot </td> <td>System Operator</td> </tr> <tr> <td>XXX</td> <td>XXX</td> <td>XXX</td> </tr> </tbody> </table>	Time	Activity	Responsible Party	XXX	XXX	XXX	Before [STDI 1 – 7 minutes]	Provide updates on the following, if any: <ul style="list-style-type: none"> • XXX • XXX • XXX • XXX • XXX • Real-time system snapshot 	System Operator	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	<p>Table 4. HAP Timeline</p> <table border="1"> <thead> <tr> <th>Time</th> <th>Activity</th> <th>Responsible Party</th> </tr> </thead> <tbody> <tr> <td>XXX</td> <td>XXX</td> <td>XXX</td> </tr> <tr> <td>Before [STDI 1 – 7 minutes]</td> <td>Provide updates on the following, if any: <ol style="list-style-type: none"> 1. XXX 2. XXX 3. XXX 4. XXX 5. Real-time system snapshot <u>data</u> </td> <td>System Operator</td> </tr> <tr> <td>XXX</td> <td>XXX</td> <td>XXX</td> </tr> </tbody> </table>	Time	Activity	Responsible Party	XXX	XXX	XXX	Before [STDI 1 – 7 minutes]	Provide updates on the following, if any: <ol style="list-style-type: none"> 1. XXX 2. XXX 3. XXX 4. XXX 5. Real-time system snapshot <u>data</u> 	System Operator	XXX	To reflect change in type of data received with the use of ICCP of the NMMS	TC: "system snapshot" is a suitable qualifier for the real-time data; without which "real-time data" is too broad, even vague.		TC: Suggest to retain based on previous explanation.	Approved											
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REPORT S			<u>test period on or before two (2) working days prior to the start of its testing.</u>	dispatch interval during the test period. The test profile will be the reference of the SO in its submission of overriding constraints.		<u>interval during its requested test period at least two (2) working days prior to the start of its testing.</u>	<u>regulatory and commercial tests shall submit to the System Operator the MW profile that details the MW target for each dispatch interval during its requested test period at least two (2) working days prior to the start of its testing.</u>
SYSTEM STATUS	7.9	7.9.1 System Snapshot. The <i>system snapshot</i> depicts the status of individual power facilities in the grid. The <i>system snapshot</i> is collected by the <i>Market Operator</i> from the <i>System Operator's</i> EMS/SCADA. a. The <i>system snapshot</i> contains the following information: 1. <i>Generator</i> Unit MW and MVAR (analog measurements)	7.9.1 System Snapshot Real-Time Data. The <i>system snapshot real-time data represents</i> depicts the analog measurements, and connection status of breakers and disconnect switches status of individual power facilities in the grid. The system snapshot it is collected by the <i>Market Operator</i> from the <i>System Operator's</i> EMS/SCADA. a. The system snapshot real-time data shall contains the	To reflect change in type of data received with the use of ICCP of the NMMS			Approved

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	<p>2. Load MW and MVAR (analog measurements) and</p> <p>3. Breaker Status</p> <p>4. Bus Voltages</p> <p>5. Frequency</p>	<p>following information as prescribed in the WESM Market Manual on Market Network Model Development and Maintenance - Criteria and Procedure:-</p> <p>1. Generator Unit MW and MVAR (analog measurements)</p> <p>2. Load MW and MVAR (analog measurements) and</p> <p>3. Breaker Status</p> <p>4. Bus Voltages</p> <p>5. Frequency</p>					
	<p>b. The system snapshot is an input to the MDOM which calculates the WAP, DAP, HAP, and RTD schedules. Specifically, the system snapshot data is used for the network configuration and nodal demand forecasting processes.</p>	<p>b. The system snapshot real-time data is an input to the MDOM which calculates the WAP, DAP, HAP, and RTD schedules. Specifically, the system snapshot real-time data is used for the network configuration and nodal demand forecasting processes.</p>					
	<p>7.9.2 System Operator System Advisories. The System Operator system advisories contain other information not included in the submission of system snapshots. Further to the</p>	<p>7.9.2 System Operator System Advisories. The System Operator system advisories contain other information not included in the submission of system snapshots. Further to the information provided in</p>					Approved

Annex C – Matrix of Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures

		information provided in Section 7.4.2, these are messages issued by the <i>System Operator</i> depicting particular events or incidents that would transpire prior, during or after real time condition.	Section 7.4.2, these are messages issued by the <i>System Operator</i> depicting particular events or incidents that would transpire prior, during or after real time condition.					
SYSTEM STATUS	7.10	7.10.2 The <i>System Operator</i> shall provide the information contained in this Section in accordance with the <i>timetable</i> set in Section 4.	7.10.2 The <i>System Operator</i> shall update provide the information contained in this Section in accordance with considering the <i>timetable</i> set in Section 4.	To clarify the responsibility of SO to update system status	TC: Retain the word "provide" as it already covers all information on current system condition.		TC: Suggest to retain. This is also consistent with current practice in the system.	Approved
MARKET PROJECTIONS - Responsibilities	8.3.3	<i>Trading Participants</i> shall be responsible for: 1. Ensuring submission of <i>self-scheduled nominations, bids, and offers</i> as set out in the <i>WESM Rules</i> and in accordance with the <i>WESM timetable</i> and the procedures and requirements set forth in this Dispatch Protocol; and	<i>Trading Participants</i> shall be responsible for: 1. Ensuring submission of <i>self-scheduled nominations, bids, and offers</i> as set out in the <i>WESM Rules</i> and in accordance with the <i>WESM timetable</i> and the procedures and requirements set forth in this Dispatch Protocol; and 2. <u>Submission of day-ahead self-scheduled nominations of its must dispatch</u>	Propose that Must Dispatch generating units provide SO day-ahead forecasts for planning purposes as also provided under PGC SD 8.3.2.6	APC: Is this mandatory or can it be altered in real time? How will this affect the Forecast?		APC: This is actually being written to be consistent with the PGC requirement for VREs to submit day-ahead forecasts. It is mandatory, and it can	Approved

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		2. Maintaining their respective infrastructure to ensure access to the <i>MPI</i> of the <i>MMS</i> .	<u>generating units to the System Operator by 1300H; and</u>				also be revised near real-time.	
Data Inputs/Information Requirements	8.4.2	The data inputs for the market projections are as follows: a. XXX b. XXX c. <i>System snapshot</i> d. XXX e. XXX f. XXX g. XXX h. XXX i. XXX	The data inputs for the market projections are as follows: a. XXX b. XXX c. System snapshot <u>Real-time data</u> d. XXX e. XXX f. XXX g. XXX h. XXX i. XXX	Reflect change in type of data received with the use of ICCP of the NMMS	TC: "system snapshot" is a suitable qualifier for the real-time data; without which "real-time data" is too broad, even vague.		TC: Suggest to retain based on previous explanation.	Approved

Annex C – Matrix of Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures

<p>REAL-TIME DISPATCH SCHEDULING</p>	<p>9.5</p>	<p>Table 6. Summary of Inputs and Sources for the <i>Real-time dispatch</i></p> <table border="1" data-bbox="413 321 806 716"> <thead> <tr> <th>INPUTS</th> <th>SOURCE</th> </tr> </thead> <tbody> <tr> <td>XXX</td> <td>XXX</td> </tr> <tr> <td>XXX</td> <td>XXX</td> </tr> <tr> <td><i>System Snapshot</i></td> <td><i>System Operator</i></td> </tr> <tr> <td>XXX</td> <td>XXX</td> </tr> <tr> <td>XXX</td> <td>XXX</td> </tr> <tr> <td>XXX</td> <td>XXX</td> </tr> <tr> <td>XXX</td> <td>XXX</td> </tr> </tbody> </table>	INPUTS	SOURCE	XXX	XXX	XXX	XXX	<i>System Snapshot</i>	<i>System Operator</i>	XXX	<p>Table 6. Summary of Inputs and Sources for the <i>Real-time dispatch</i></p> <table border="1" data-bbox="830 321 1257 756"> <thead> <tr> <th>INPUTS</th> <th>SOURCE</th> </tr> </thead> <tbody> <tr> <td>XXX</td> <td>XXX</td> </tr> <tr> <td>XXX</td> <td>XXX</td> </tr> <tr> <td><i>System snapshot Real-Time Data</i></td> <td><i>System Operator</i></td> </tr> <tr> <td>XXX</td> <td>XXX</td> </tr> </tbody> </table>	INPUTS	SOURCE	XXX	XXX	XXX	XXX	<i>System snapshot Real-Time Data</i>	<i>System Operator</i>	XXX	<p>Reflect change in type of data received with the use of ICCP of the NMMS</p>	<p>TC: "system snapshot" is a suitable qualifier for the real-time data; without which "real-time data" is too broad, even vague.</p>		<p>TC: Suggest to retain based on previous explanation.</p>	<p>Approved</p>																
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<p>PREPARATION OF THE WESM MERIT ORDER TABLE</p>	<p>10.1.2</p>	<p>The <i>WMOT</i> is generated by stacking in an unconstrained manner of scheduled and unscheduled capacities, excluding negative quantities through the <i>market offers</i> submitted for the <i>real-time dispatch</i> runs. <i>Energy offer</i> blocks submitted by <i>generator Trading Participants</i> for a particular dispatch interval are arranged from lowest to the highest priced offer block, without considering any <i>constraints</i>. The <i>WMOT</i> stacks <i>energy offers</i> into two, namely, the energy offers</p>	<p>The <i>WMOT</i> is generated by stacking, in an unconstrained manner, of scheduled and unscheduled capacities, excluding negative quantities, <u>reserve schedules, and generators on outage</u> through the <i>market offers</i> submitted for the <i>real-time dispatch</i> runs. <i>Energy offer</i> blocks submitted by <i>generator Trading Participants</i> for a particular dispatch interval are arranged from lowest to the highest priced offer block, without considering any <i>constraints</i>. The <i>WMOT</i> stacks <i>energy offers</i> into two, namely, the energy offers that</p>	<p>To reflect more accurate presentation of available capacities for re-dispatch</p>				<p>Approved</p>																																		

Annex C – Matrix of Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures

		that were scheduled (or “Offers Dispatched”) and <i>energy offers</i> that were not scheduled (or “Offers Not Dispatched”).	were scheduled (or “Offers Dispatched”) and <i>energy offers</i> that were not scheduled (or “Offers Not Dispatched”).					
PREPARATION OF THE WESM MERIT ORDER TABLE	10.3.2	Consistent with its obligations set out in this Dispatch Protocol in respect to the issuance of dispatch instructions, the System Operator shall be responsible for ensuring the application of the information provided in the WMOT in the real-time operation of the grid. The System Operator shall also be responsible for identifying the generating units designated as must-run units through the dispatch deviation report and report on must-run units prepared in accordance with Sections 14.4.2 and 14.4.5.	Consistent with its obligations set out in this Dispatch Protocol in respect to the issuance of dispatch instructions, the System Operator shall be responsible for ensuring the application of the information provided in the WMOT in the real-time operation of the grid. The System Operator shall also be responsible for identifying the generating units <u>that were issued dispatch instructions</u> designated as must-run units through the dispatch deviation <u>instruction</u> report and report on must-run units prepared in accordance with Sections 14.4.2 and 14.4.5.	Renamed to dispatch instruction report. Also, MRU reports will be integrated in the dispatch instruction report per proposed revisions in Section 14.4.5.				Approved
Preparation of WMOT	10.4	10.4.1 The <i>WMOT</i> shall be prepared using the <i>offers</i> , excluding negative quantities, and the <i>real-time dispatch schedule</i> of each <i>generating system</i> for which <i>offers</i> were submitted for the relevant <i>dispatch interval</i> . The specific	10.4.1 The <i>WMOT</i> shall be prepared using <u>the real-time dispatch schedules, and</u> the <i>offers</i> , excluding negative quantities, <u>reserve schedules, and generators on outage,</u> and the real-time dispatch schedule of each <i>generating system</i> for which <i>offers</i> were	Proposed to amend to reflect more accurate presentation of available capacities for re-dispatch	TC: Should include "reserve schedules" to show the AS capacities scheduled by SO that has		TC: To clarify in the MMS, energy schedules already include A/S capacities that have	Approved

Annex C – Matrix of Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures

		<p>information that will be used is as follows:</p> <p>XXX</p> <p>10.4.5 The “Offers Dispatched” consists of the <i>energy offer</i> blocks which have been scheduled in the RTD schedule for the <i>dispatch interval</i>. To the extent possible, the <i>dispatch schedule</i> of each <i>generating unit</i> will be split into corresponding <i>offer</i> blocks. The scheduled <i>offer</i> blocks will then be sorted and listed from the lowest-priced to the highest-priced scheduled <i>offer</i> block, with the lowest-priced scheduled <i>offer</i> block at the bottom of the list and the highest-priced at the top of the list. The <i>generating units</i> for which no <i>offers</i> are submitted but were scheduled are considered as price takers. Their respective schedules, MW, are included in this list and are placed at the bottom of the list with <i>must dispatch generating units</i> at the bottom and</p>	<p>submitted for the relevant <i>dispatch interval</i>. The specific information that will be used is as follows:</p> <p>XXX</p> <p>10.4.5 The “Offers Dispatched” consists of the <i>energy offer</i> blocks, <u>excluding reserve schedules</u>, which have been scheduled in the RTD schedule for the <i>dispatch interval</i>. To the extent possible, the <i>dispatch schedule</i> of each <i>generating unit</i> will be split into corresponding <i>offer</i> blocks. The scheduled <i>offer</i> blocks will then be sorted and listed from the lowest-priced to the highest-priced scheduled <i>offer</i> block, with the lowest-priced scheduled <i>offer</i> block at the bottom of the list and the highest-priced at the top of the list. The <i>generating units</i> for which no <i>offers</i> are submitted but were scheduled are considered as price takers. Their respective <u>MW</u> schedules, MW, are included in this list and are placed at the bottom of the list with <i>must dispatch generating units</i> at the bottom</p>		<p>been utilized by MO in lieu of supply deficiency</p>		<p>already been determined by the MDOM to be scheduled for energy due to supply deficits. The MMS reserve schedules are those capacities that are expected to be on standby for frequency control. This proposal already tries to omit reserve schedules in the MOT since reserve schedules are meant to be</p>	
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Annex C – Matrix of Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures

		followed by <i>priority dispatch generating units</i> and <i>non-scheduled generating units</i> in that order.	and followed by <i>priority dispatch generating units</i> and <i>non-scheduled generating units</i> in that order.				separately managed by SO. Adding it back creates another layer of confusion in dispatch operations.	
		10.4.6 The “Offers Not Dispatched” consists of the remaining <i>energy offers</i> of each <i>generating unit</i> that are not scheduled or included in the RTD schedule for the <i>dispatch interval</i> . To the extent possible, the remaining <i>offers</i> will be sorted by <i>offer blocks</i> . The <i>offer blocks</i> not dispatched will then be sorted and listed from the lowest-priced to the highest-priced scheduled <i>offer block</i> , with the lowest-priced scheduled offer block at the bottom of the list and the highest-priced at the top of the list. Capacities that were not dispatched through their <i>energy offers</i> but have	10.4.6 The “Offers Not Dispatched” consists of the remaining <i>energy offers</i> of each available <i>generating unit</i> that are not scheduled or included in the RTD schedule for the <i>dispatch interval</i> . To the extent possible, the remaining <i>offers</i> will be sorted by <i>offer blocks</i> . The <i>offer blocks</i> not dispatched will then be sorted and listed from the lowest-priced to the highest-priced scheduled <i>offer block</i> , with the lowest-priced scheduled offer block at the bottom of the list and the highest-priced at the top of the list. Capacities that were not dispatched through their <i>energy offers</i> but have <i>reserve dispatch</i>					Approved

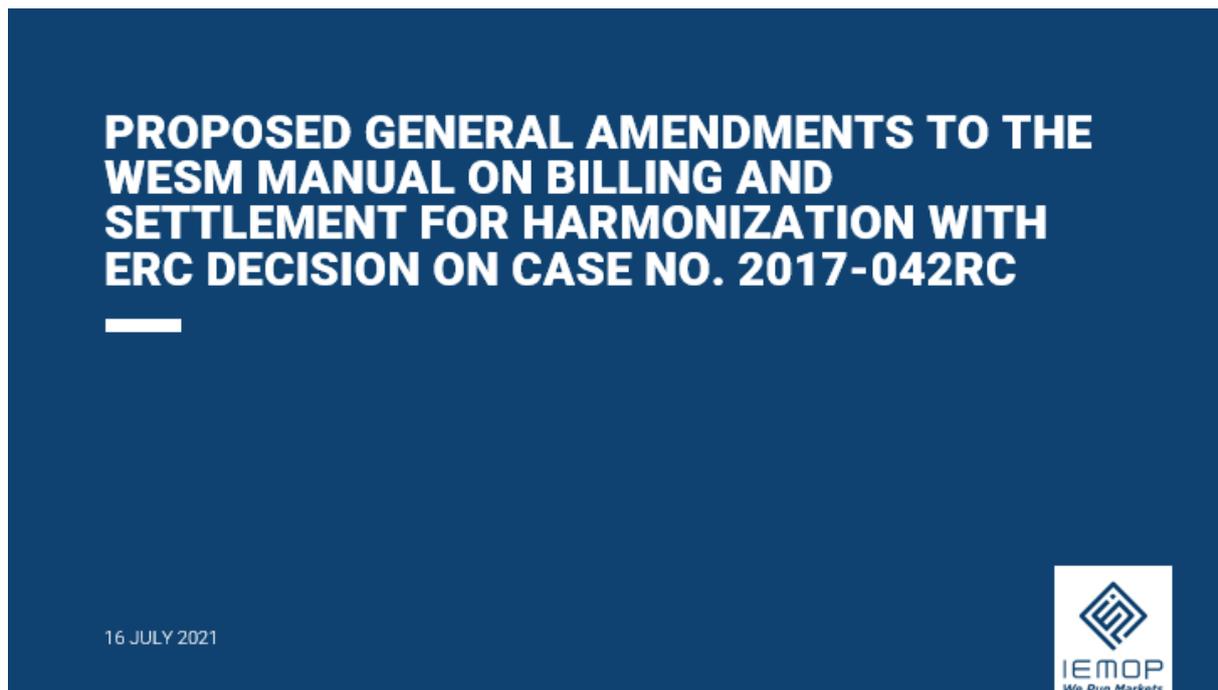
Annex C – Matrix of Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures

		<i>reserve dispatch</i> targets shall be excluded from the list.	targets shall be excluded from the list.					
Use of WMOT	10.6.2	As far as practicable, and when <i>secondary reserves</i> have been exhausted, the <i>System Operator</i> shall issue re-dispatch instructions based on the <i>WMOT</i> . However, the <i>System Operator</i> may resort in an <i>out of merit dispatch</i> whenever the quality of the <i>grid frequency</i> is affected or the <i>security</i> of the <i>grid</i> is at risk.	As far as practicable, and when <i>secondary regulating reserves</i> have been exhausted, the <i>System Operator</i> shall issue re-dispatch instructions based on the <i>WMOT</i> . However, the <i>System Operator</i> may resort in an <i>out of merit dispatch</i> whenever the quality of the <i>grid frequency</i> is affected or the <i>security</i> of the <i>grid</i> is at risk.	To harmonize with DOE DC2019-12-0018 (regulating, contingency, dispatchable)				Approved
DISPATCH IMPLEMENTATION	11.1.3	11.1.3 During each <i>dispatch interval</i> , the <i>Trading Participant</i> is directed under <i>WESM Rules</i> Clause 3.8.4.1 to implement the <i>dispatch targets</i> determined by the <i>Market Operator</i> .	11.1.3 During each <i>dispatch interval</i> <u>Except for generating units operating on automatic generation control (AGC)</u> , the <i>Trading Participant</i> is directed under <i>WESM Rules</i> Clause 3.8.4.1 to implement the <i>dispatch targets</i> determined by the <i>Market Operator</i> <u>for each dispatch interval</u> . <u>11.1.4 For generating units operating on AGC, the dispatch instructions shall be issued by the System Operator. The Trading Participant shall then comply with the dispatch instructions issued by the System Operator</u>	Proposed to provide option for automated dispatching		TC: 1.1.4 For generating units operating on AGC, <u>under a written agreement with SO</u> , the dispatch instructions shall be issued by the System Operator. The Trading Participant shall then comply with the dispatch instructions issued by the System Operator through their facilities for AGC, based on the dispatch target determined by the Market Operator for each dispatch interval.	TC: For SO concurrence. APC:	Retain original provision 11.1.3 *RCC 181 st ends here

Annex C – Matrix of Proposed General Amendments to the WESM Rules and WESM Manuals regarding Market Operator and System Operator Procedures

			<p><u>through their facilities for AGC, based on the dispatch target determined by the Market Operator for each dispatch interval.</u></p>		<p>Please clarify how a generating unit on AGC should “comply” with a specified target if it’s real-time output is an automatic response to frequency deviations? Should it not be exempted from possible breach (of the tolerance) if the generating unit is operating on AGC?</p> <p>What happens when SO does not or forgot to trigger the AGC signal for the plant to respond? Who bears the negative exposure?</p>	<p>Suggest to retain</p>	<p>One of the main reasons why we are currently in the first stage of the relaxed dispatch operations of the 5-minute WESM is the ability to discover the viability of the dispatch performance standards, including for generators running on AGC. Eventually, revisions to the DP shall be made after this 3-month period.</p>	
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***NOTE: The rest of the proposal, which was not discussed during the subject RCC meeting, was not included. Please refer to the subsequent minutes of meeting/s.



02

THE PROPONENT

- The proponent is the Independent Electricity Market Operator of the Philippines, Inc. (IEMOP)
- IEMOP is the market operator of the WESM.

OUTLINE

- 01 ACTION REQUESTED
- 02 RATIONALE OF THE PROPOSAL
- 03 SUMMARY OF THE PROPOSAL
- 04 OTHER RELEVANT MATTER

JS

ACTION REQUESTED

- For approval to publish for comments

RATIONALE OF THE PROPOSAL

- › Harmonize with ERC directives on additional compensation process
- › Provide details to the implementation of the ERC directives

SUMMARY OF THE PROPOSAL

BACKGROUND

- Submitted as an Urgent Amendment on 16 April 2021
- RCC Approval on 23 April 2021
- PEMB Approval on 28 April 2021

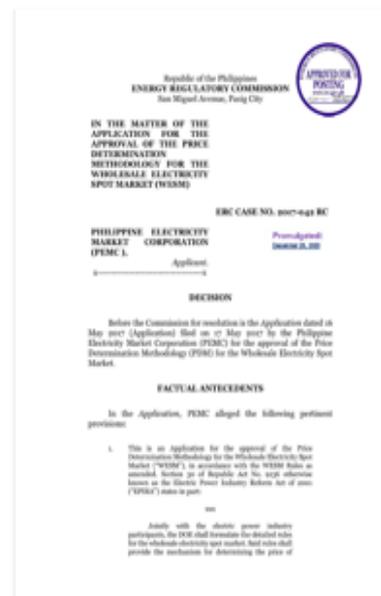


SUMMARY OF THE PROPOSAL

BACKGROUND

ERC Decision on the approval of the Price Determination Methodology (PDM) for the enhanced WESM design require revisions to the following WESM manuals:

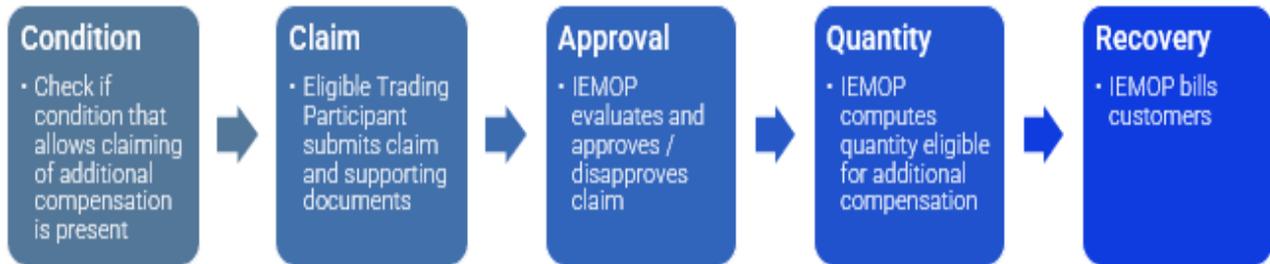
- 1) Dispatch Protocol – *included in previous urgent amendment*
- 2) Billing and Settlement



JS

SUMMARY OF THE PROPOSAL

CHANGES TO THE BILLING AND SETTLEMENT MANUAL WOULD AFFECT THE ADDITIONAL COMPENSATION PROCESS:

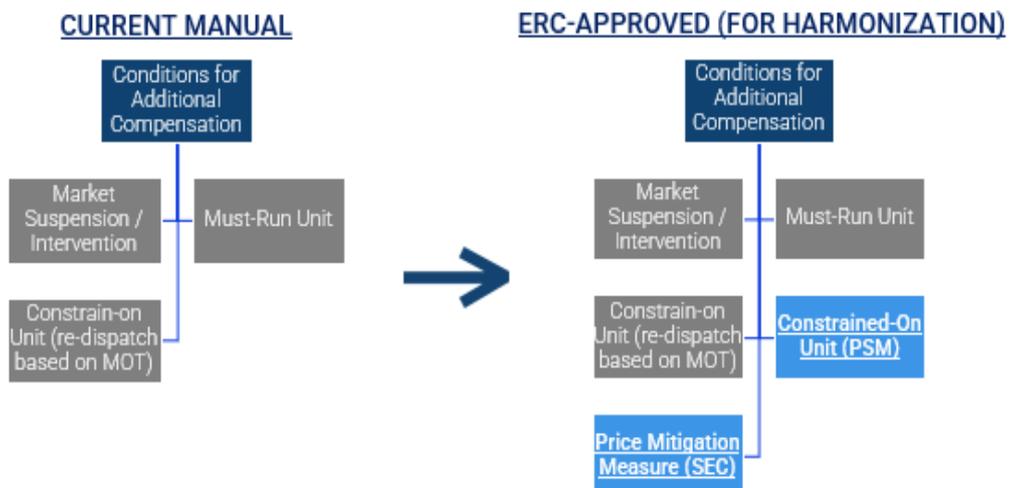


All additional compensation processes are affected by the procedures added by the Energy Regulatory Commission (ERC) in its decision approving the Price Determination Methodology for the enhanced WESM design and operations

09

SUMMARY OF THE PROPOSAL

A) Conditions for Additional Compensation



MOT – Merit Order Table
PSM – Price Substitution Methodology
SEC – Secondary Price Cap

SUMMARY OF THE PROPOSAL

B) Claiming and Approving Additional Compensation

	<u>CURRENT MANUAL</u>	<u>ERC-APPROVED (FOR HARMONIZATION)</u>
DEADLINE FOR FILING OF CLAIM	AP: 14 working days (WD) after resumption MRU, MOT: 1 year after designation	AP, <u>PSM, SEC</u> : 14 WD after resumption/designation MRU, MOT: 1 year after designation
DEADLINE FOR SUBMITTING SUPPORTING DOCUMENTS	None	 <u>60 calendar days (CD) after claim</u>
DEADLINE FOR APPROVAL	AP, MRU, MOT: 14 WD after receipt of complete documents	AP, MRU, MOT, <u>PSM</u> : 14 WD after receipt of complete documents <u>SEC: 30 CD after claim</u>
EFFECT OF INACTION	Deemed approved	Deemed <u>disapproved – GenCo may raise dispute</u>

AP – Administered Price
MRU – Must-Run Unit
MOT – Merit Order Table
PSM – Price Substitution Methodology
SEC – Secondary Price Cap

SUMMARY OF THE PROPOSAL

C) Supporting Documents for Claiming Additional Compensation

<u>CURRENT MANUAL</u>	<u>ERC-APPROVED (FOR HARMONIZATION)</u>
<ol style="list-style-type: none"> 1) Certified correct Fuel Consumption and Inventory Report; 2) Purchase Invoices, Official Receipts and other supporting documents; and 3) ERC approved rate or List of Variable Operation and Maintenance Costs supported by photocopies of invoices/receipts. 	 <ol style="list-style-type: none"> 1) Certified correct Fuel Consumption and Inventory Report (<u>MRU, AP, MOT</u>); or <u>actual fuel consumption and inventory report, duly certified by the Vice President of Finance of the power plant applying for additional compensation (SEC, PSM)</u> 2) Purchase Invoices, Official Receipts and other supporting documents; and 3) ERC approved rate or List of Variable Operation and Maintenance Costs supported by photocopies of invoices/receipts.

AP – Administered Price
MRU – Must-Run Unit
MOT – Merit Order Table
PSM – Price Substitution Methodology
SEC – Secondary Price Cap



SUMMARY OF THE PROPOSAL

D) Quantity Eligible for Additional Compensation

FEATURE	SEC	AP	PSM	MOT
ADDITIONAL COMPENSATION QUANTITY	If $[GESQ] > [SG + Deviation]$, SG – BCQ – ASIE otherwise, GESQ – BCQ – ASIE			
ACTUAL GENERATION	GESQ			
SCHEDULED GENERATION (SG)	Equivalent energy of linear compliance to RTD or SO instruction	Equivalent energy of linear compliance to most recent RTD or SO instruction	Equivalent energy of linear compliance to RTD or SO instruction	Equivalent energy of linear compliance to SO instruction
SO INFORMATION	Dispatch Interval, Target MW			
DEVIATION REFERENCE	Dispatch Instruction Report			
ELIGIBLE TRADING PARTICIPANTS	Oil-based plants	All	Constrained-on plants	All

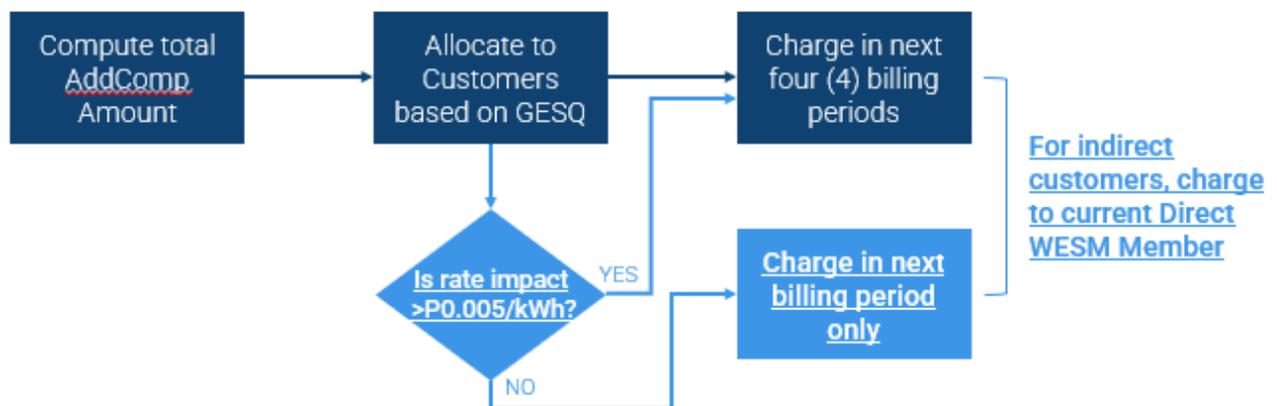
SEC – Secondary Price Cap
AP – Administered Price

SG – Scheduled Generation
BCQ – Bilateral Contract Quantity

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SUMMARY OF THE PROPOSAL

E) Cost Recovery of Additional Compensation



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OTHER RELEVANT MATTERS

- None

ACTION REQUESTED

- For approval to publish for comments

JS