



## RULES CHANGE COMMITTEE

### Proposed General Amendments to the WESM Rules and FAS Manual on Matters Relating to Enforcement Proceedings and Actions

Effective Date : 19 May 2023

Page : 1 of 71

**WHEREAS**, the RCC certified the Proposed Urgent Amendments to the WESM Rules and FAS Manual on Matters Relating to Enforcement Proceedings and Actions as urgent and approved to endorse the proposal, as revised, to the PEM Board through RCC Resolution No. 2022-13 dated 18 November 2022, amending the following market documents;

- 1) WESM Rules; and
- 2) WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual);

**WHEREAS**, the PEM Board approved the proposal on 23 November 2022 through PEM Board Resolution No. 2022-54-07. Subsequently, PEMC posted in the Governance Arm website on 24 November 2022 the above-cited market documents, as amended, which shall remain in effect for a period of not more than six (6) months from posting or until a general amendment on the same matter has been approved by the DOE, whichever comes first;

**WHEREAS**, pursuant to Section 7.4 (f) of the WESM Manual on Procedures for Changes to the WESM Rules, Retail Rules and Market Manuals (WESM-RCM), the RCC and PEM Board likewise approved in the foregoing the posting of the PEM Board-approved Proposed Amendments to the WESM Rules and FAS Manual on Matters Relating to Enforcement Proceedings in PEMC website to solicit comments;

**WHEREAS**, following the 30-working day commenting period for general amendments from 14 December 2022 to 27 January 2023, Aboitiz Power Corporation (APC), Emerging Power and National Grid Corporation of the Philippines (NGCP) responded to the call for comments;

**WHEREAS**, the RCC, during its 209<sup>th</sup> (Regular) Meeting held on 17 February 2023, deliberated the proposal and adopted the following:

1. Additional provision on WESM Rules 7.2.10 to consider the timelines for exemption from an investigation and imposition of sanctions for probable breach within the period prescribed in other manuals. This provision will serve as the basis of the proposed exemption provisions under the FAS Manual, as follows:
  - o Pro-rated penalty or sanction if the plant operates less than a year, and
  - o Exempted if the plant operated 3 months or less prior to the end of monitoring year;
2. Deletion of the acronyms MAPE and PERC95 in the definition of terms;
3. An annual review of the forecast accuracy standards by the Market Operator or the Enforcement and Compliance Office, in consultation with the System Operator;

4. Retention of the original definition of Initial Loading<sup>1</sup> since the definition is applicable of the current process; and
5. Inclusion of Annex C of WESM Bulletin 16.1<sup>2</sup> as Appendix B in the FAS Manual;

**WHEREAS**, the RCC noted the following:

- There is an existing general rule of one (1) month exemption from the sanction of all WESM Members. The proposal provides more practicable exemptions for the monitoring FAS of must dispatch generating units;
- Noting the proposed exemption of plants that will operate for 3 months or less prior to the end of monitoring year, a system impact study for bulk connection of new RE plants during the last quarter of the year would be a great help to ensure system security;
- In changing the definition of Initial Loading, a study is suggested to reflect more accurate threshold of the standards considering that changing the reference values of initial loading will also have an impact on the calculation;
- NGCP requested the same exemption be given to System Operator in compliance with the frequency variation and/or voltage variation under the Philippine Grid Code (PGC), however, the RCC discussed that the proposed exemption should be first reflected in the PGC to have a basis for WESM to include in Rules and Manuals; and
- FAS Manual provides a provision that ECO and MO shall review annually the forecast accuracy standards and shall provide recommendations to the PEM Board and DOE. The MO has already started the study on the standards, however, any changes to the standards must be reflected first in the PGC;

**WHEREAS**, the Market Assessment Group (MAG) presented its updates regarding the implementation of the corresponding Urgent Amendments. In accordance with the objectives of the urgent amendments, the ECO is implementing the urgent amendments to ensure that the proceedings and actions are supported by adequate and fair basis, and has reference in the WESM Rules and its corresponding manuals;

**WHEREAS**, awaiting the completion of annual FAS report to be completed on 31 March 2023, the MAG recommended the continuation of its implementation and procedures until the issuance of the FAS report covering the period of January to December 2022;

**WHEREAS**, on the same meeting, the RCC provisionally approved the proposal subject to final review in the next regular RCC meeting;

**WHEREAS**, the RCC, during its 212<sup>th</sup> (Regular) Meeting held on 17 March 2023, further discussed the proposal specifically on the exemption of trading participants who operated on last quarter of the year. One of the RCC members reiterated that this exemption would have an impact on the network and suggested to await first for the simulation study that will be conducted. However, the exemptions also provide leeway for

---

<sup>1</sup> 9 voted to retain the original wordings – Orillaza, Rosales, Banzon, Fernando, Javier, Anosan, Dela Cruz, Claudio  
1 voted to adopt the proposed amendment – Grayda

<sup>2</sup> WESM Bulletin 16.1 - WESM Compliance Bulletin provides for the Procedure and Guidelines for Validation, Recalculation and Publication of the Forecast Accuracy Standards Reports

the new plants an opportunity to adjust, considering that the financial penalty is ₱500,000.00 for MAPE and ₱500,000.00 for Perc95 and may escalate depending on the occurrences of breaches;

**WHEREAS**, during its 214<sup>th</sup> (Regular) Meeting held on 28 April 2023, the MAG recommended the RCC to request from the PEM Board the extension of effectivity of the urgent amendment and ECO to continue its implementation of the urgent amendments depending on the PEM Board's decision and approval on the RCC's recommendation. These recommendations are based on MAG's assessment of urgent amendments (Annex C);

**WHEREAS**, on the same meeting, the RCC also noted that the PEM Board-approved urgent amendments is due to expire on 22 May 2023 and that the process for DOE's approval of the general amendment may take some time. The need to request for extension of the effectivity of the said urgent amendments pursuant to WESM-RCM Section 7.4, as recommended by PEMC, was duly recognized by the RCC;

**NOW THEREFORE**, we, the undersigned, on behalf of the sectors we represent, hereby resolved as follows:

**RESOLVED**, that RCC approves the proposed General Amendments to the WESM Rules and FAS Manual on Matters Relating to Enforcement Proceedings and Actions attached as Annexes A and B;

**RESOLVED FURTHER**, that the said proposed General Amendments to the WESM Rules and FAS Manual on Matters Relating to Enforcement Proceedings and Actions, are hereby endorsed to the PEM Board for approval and for submission to DOE for final approval;

**RESOLVED FURTHER**, that the RCC approves and endorses to the PEM Board the request extending the effectivity of the PEM Board-approved Urgent Amendments for another six (6) months;

Done this 19<sup>th</sup> day of **May 2023**, *via* Microsoft Outlook.

Proposed General Amendments to the WESM Rules and FAS Manual  
on Matters Relating to Enforcement Proceedings and Actions

Approved by: <b>THE RULES CHANGE COMMITTEE</b>	
Independent Members:	
 <b>JESUSITO G. MORALLOS</b> Chairperson	 <u>Jose Roderick Fernando (May 19, 2023 16:48 GMT+8)</u> <b>JOSE RODERICK F. FERNANDO</b>
 <b>RACHEL ANGELA P. ANOSAN</b>	 <b>JORDAN REL C. ORILLAZA</b>
Generation Sector Members:	
 <b>DIXIE ANTHONY R. BANZON</b> Masinloc Power Partners Co. Ltd. (MPPCL)	 <u>Cherry Javier (May 25, 2023 10:01 GMT+8)</u> <b>CHERRY A. JAVIER</b> Aboitiz Power Corp. (APC)
 <b>CARLITO C. CLAUDIO</b> Millennium Energy, Inc./ Pansia Energy, Inc. (MEI/PEI)	 <u>Mark Habana (May 25, 2023 10:52 GMT+8)</u> <b>MARK D. HABANA</b> Vivant Corporation - Philippines (Vivant)
Distribution Sector Members:	
 <b>RYAN S. MORALES</b> Manila Electric Company (MERALCO)	 <b>RUSSEL S. ALABADO</b> Angeles Electric Corp. (AEC)
 <b>VIRGILIO C. FORTICH, JR.</b> Cebu III Electric Cooperative, Inc. (CEBECO III)	 <b>NELSON M. DELA CRUZ</b> Nueva Ecija II Area 1 Electric Cooperative, Inc. (NEECO II – Area 1)



Proposed General Amendments to the WESM Rules and FAS Manual  
on Matters Relating to Enforcement Proceedings and Actions

<b>Supply Sector Member:</b>
 <b>GIAN KARLA C. GUTIERREZ</b> First Gen Corporation (FGen)
<b>Market Operator Member:</b>
 <b>JOHN PAUL S. GRAYDA</b> Independent Electricity Market Operator of the Philippines (IEMOP)
<b>Transmission Sector Member:</b>
 <b>DARRYL LON A. ORTIZ</b> National Grid Corporation of the Philippines (NGCP)



<b>A. WESM Rules</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
Generation Offers and Data	3.5.5.10	A <i>Trading Participant</i> who fails to meet the requisite forecast accuracy standards set out in accordance with Clause 3.5.5.8 in respect of <i>projected outputs</i> for a <i>must dispatch generating unit</i> submitted under Clause 3.5.5.5 may be liable for sanctions imposed under Clause 7.2.	A <i>Trading Participant</i> who fails to meet the requisite forecast accuracy standards set out in accordance with Clause 3.5.5.8 <b><u>based on an annual assessment and results</u></b> in respect of <i>projected outputs</i> for a <del><i>must dispatch generating unit</i></del> submitted under Clause 3.5.5.5 may be liable for sanctions imposed under Clause 7.2.	A <i>Trading Participant</i> who fails to meet the requisite forecast accuracy standards set out in accordance with Clause 3.5.5.8 <b><u>based on an annual assessment and results</u></b> in respect of <i>projected outputs</i> for a <del><i>must dispatch generating unit</i></del> submitted under Clause 3.5.5.5 <b>may <u>shall</u></b> be liable for sanctions imposed under Clause 7.2 <b><u>and the WESM Penalty Manual.</u></b>	<ul style="list-style-type: none"> <li>For clarity. ECO monitors monthly and annually. Only the failed <b><u>annual</u></b> rating shall be subject to sanctions.</li> <li>Deleted part – redundant; it is already stated in the referred clause 3.5.5.8</li> </ul>
Generation Offers and Data	3.5.5.11	The <i>Enforcement and Compliance Office</i> shall report to the <i>PEM Board</i> and the <i>DOE</i> the monthly and annual compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards with respect to its <i>projected outputs</i> .	The <i>Enforcement and Compliance Office</i> shall report to the <i>PEM Board</i> , <b><u>the Compliance Committee</u></b> , and the <i>DOE</i> the monthly and annual compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards with respect to its <i>projected outputs</i> .	The <i>Enforcement and Compliance Office</i> shall report to the <i>PEM Board</i> , <b><u>the Compliance Committee</u></b> , and the <i>DOE</i> the monthly and annual compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards with respect to its <i>projected outputs</i> .	To include CC to whom ECO reports as part of the Committee's oversight functions.
Generation Offers and Data	3.5.5.12	The <i>Market Operator</i> shall report to the <i>PEM Board</i> and the <i>DOE</i> the monthly and annual compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards with respect to its <i>projected outputs</i> .	<del>The <i>Market Operator</i> shall report to the <i>PEM Board</i> and the <i>DOE</i> the monthly and annual compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards with respect to its <i>projected outputs</i>.</del>	<del>The <i>Market Operator</i> shall report to the <i>PEM Board</i> and the <i>DOE</i> the monthly and annual compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards with respect to its <i>projected outputs</i>.</del>	Redundant provision. Under Clause 3.5.5.11, ECO shall perform this task.

<b>A. WESM Rules</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
Exemption	7.2.10	<p>All <i>WESM Member</i> shall be exempted from an investigation and imposition of sanctions for probable <i>breach</i> that are committed –</p> <p>(a) Within the first one (1) month of membership in the <i>WESM</i> by said <i>WESM Member</i>; or</p> <p>(b) Within the first one (1) month of the issuance of a new provision of the <i>WESM Rules</i> or a new <i>Market Manual</i>, or an amendment thereto, with respect to such new provisions, <i>Market Manual</i> or amendment, if non-compliance with the same amounts to a <i>breach</i>.</p> <p>Notwithstanding, the <i>DOE</i> may issue a longer exemption period as it may deem necessary, to ensure the readiness of the <i>WESM Members</i> and in the implementation of a new policy or program that directly impacts the enforcement of the <i>WESM Rules</i> and its <i>Market Manuals</i>. For this purpose, the <i>DOE</i> shall issue an advisory to the <i>Governance Arm</i> providing</p>	<p><b><u>Unless otherwise provided in the relevant <i>Market Manual</i>,</u></b> <del>All <i>WESM Members</i></del> shall be exempted from an investigation and imposition of sanctions for probable <i>breach</i> that are committed –</p> <p>x x x</p>	<p><b><u>Unless otherwise provided in the relevant <i>Market Manual</i>,</u></b> <del>All <i>WESM Members</i></del> shall be exempted from an investigation and imposition of sanctions for probable <i>breach</i> that are committed –</p> <p>(a) Within the first one (1) month of membership in the <i>WESM</i> by said <i>WESM Member</i>; or</p> <p>(b) Within the first one (1) month of the issuance of a new provision of the <i>WESM Rules</i> or a new <i>Market Manual</i>, or an amendment thereto, with respect to such new provisions, <i>Market Manual</i> or amendment, if non-compliance with the same amounts to a <i>breach</i>; <u>or</u></p> <p><b><u>(c) <i>Within the period prescribed in other Market Manual.</i></u></b></p> <p>Notwithstanding, the <i>DOE</i> may issue a longer exemption period as it may deem necessary, to ensure the readiness of the</p>	<ul style="list-style-type: none"> <li>To allow flexibility in setting a different exemption period when the <i>Market Manual</i> provides for a more practicable provision or consideration.</li> </ul> <p>Note: Please see related proposal under FAS Manual Section 4.6.2 [b], where exemption is provided if the plant is in operation for 3 months or less prior to the end of the covered monitoring year.</p> <ul style="list-style-type: none"> <li>To include the other prescribed period from other market manuals. In this case, under the FAS Manual.</li> </ul>

A. WESM Rules					
Title	Clause	Original Provision	PEM Board-approved Urgent Amendments	Proposed Amendment	Rationale
		such details of exemption as necessary.		<i>WESM Members</i> and in the implementation of a new policy or program that directly impacts the enforcement of the <i>WESM Rules</i> and its <i>Market Manuals</i> . For this purpose, the <i>DOE</i> shall issue an advisory to the <i>Governance Arm</i> providing such details of exemption as necessary.	
Chapter 11 GLOSSARY		Must Dispatch Generating Unit. A <i>Generating Unit</i> or <i>Generating System</i> so designated by the <i>Market Operator</i> under Clause 2.3.1.5 and is provided <i>Must Dispatch</i> .	Must Dispatch Generating Unit. A <i>Generating Unit</i> or <i>Generating System</i> <del>so designated by the <i>Market Operator</i></del> <b><u>certified by the DOE as must dispatch generating unit</u></b> under Clause 2.3.1.5 and is provided <del><i>Must Dispatch</i></del> <b><u>registered as such in the WESM by the Market Operator.</u></b>	Must Dispatch Generating Unit. A <i>Generating Unit</i> or <i>Generating System</i> <del>so designated by the <i>Market Operator</i></del> <b><u>certified by the DOE as must dispatch generating unit</u></b> under Clause 2.3.1.5 and is provided <del><i>Must Dispatch</i></del> <b><u>registered as such in the WESM by the Market Operator.</u></b>	Use of more appropriate terms.  Section 2.3.1.5 speaks of certification by the DOE rather than designation by the Market Operator.

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
SECTION 1 – INTRODUCTION  1.1. Background		[NEW]	<u><b>1.1.3 A Generation Company that has secured a Final Certificate of Approval to Connect for completing the conduct of test and commissioning but with pending issuance of Certificate of Compliance from the ERC for its must dispatch generating unit shall comply with the forecast accuracy standards in respect of its projected outputs.<sup>3</sup></b></u>	<u><b>1.1.3 A Generation Company that has secured a Final Certificate of Approval to Connect for completing the conduct of test and commissioning but with pending issuance of Certificate of Compliance from the ERC for its must dispatch generating unit shall comply with the forecast accuracy standards in respect of its projected outputs.<sup>3</sup></b></u>	To reflect the provisions of DOE DC 2022-05-0015 as regards the obligation of must dispatch generating units (MDGUs) to comply with forecast accuracy standards
SECTION 1 – INTRODUCTION  1.1. Background		[NEW]	<u><b>1.1.4 A Generation Company that has an expansion unit shall likewise comply with the forecast accuracy standards following the parameters set forth in Section 4.2.8 of this Manual.</b></u>	<u><b>1.1.4 A Generation Company that has an expansion unit shall likewise comply with the forecast accuracy standards following the parameters set forth in Section 4.2.8 of this Manual.</b></u>	To consider the monitoring of a MDGU with expansion unit, i.e., facility with same plant substation and revenue meter; and to comply with the requirements under DOE DC2022-05-0015 <sup>4</sup>
SECTION 1 – INTRODUCTION	1.1.3	A Trading Participant who fails to meet the requisite forecast	<del>4.1.3</del> <u><b>1.1.5 A Trading Participant referred to in</b></u>	<del>4.1.3</del> <u><b>1.1.5 A Trading Participant referred to in</b></u>	• Renumbered to <u><b>1.1.5</b></u> with

<sup>3</sup> Section 4.4.5 of the DOE DC2022-05-0015 “Supplementing Department Circular No. DC2021-06-0013 on the Framework Governing Test and Commissioning of Generation Facilities for Ensuring Readiness to Deliver Energy to the Grid or Distribution Network” Published in June 2022

<sup>4</sup> To include the Must-Dispatch Generating Units (MDGUs) with Final Certificate of Approval to Connect (FCATC) in the coverage of FAS monitoring

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
1.1. Background		accuracy standards in respect of <i>projected outputs</i> for a <i>must dispatch generating unit</i> may be liable for sanctions imposed under Clause 7.2 of the <i>WESM Rules</i> .	<b><u>Sections 1.1.2, 1.1.3, and 1.1.4 hereof, <del>the which</del></u></b> fails to meet the requisite forecast accuracy standards in respect of <i>projected outputs</i> for a <i>must dispatch generating unit</i> may be liable for sanctions imposed under Clause 7.2 of the <i>WESM Rules</i> <b><u>and the WESM Penalty Manual.</u></b>	<b><u>Sections 1.1.2, 1.1.3, and 1.1.4 hereof, <del>the which</del></u></b> fails to meet the requisite forecast accuracy standards in respect of <del><i>projected outputs</i> for a <i>must dispatch generating unit</i> may</del> <b><u>based on an annual assessment and results, shall</u></b> be liable for sanctions imposed under Clause 7.2 of the <i>WESM Rules</i> and the <i>WESM Penalty Manual</i> .	modifications for clarity. MDGUs with FCATC are already liable for sanctions in case of violations / breach of FAS.
SECTION 1 – INTRODUCTION 1.1. Background	1.1.4	Moreover, the <i>Enforcement and Compliance Office</i> is required by the <i>WESM Rules</i> report to the <i>PEM Board</i> and the <i>DOE</i> the annual compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards with respect to its <i>projected outputs</i> .	<del>1.1.4</del> <b><u>1.1.6</u></b> Moreover, the <i>Enforcement and Compliance Office</i> is required by the <i>WESM Rules</i> <b><u>to</u></b> report to the <i>PEM Board</i> , <b><u>the Compliance Committee,</u></b> and the <i>DOE</i> the annual compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards with respect to its <i>projected outputs</i> .	<del>1.1.4</del> <b><u>1.1.6</u></b> Moreover, the <i>Enforcement and Compliance Office</i> is required by the <i>WESM Rules</i> <b><u>to</u></b> report to the <i>PEM Board</i> , <b><u>the Compliance Committee,</u></b> and the <i>DOE</i> the annual compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards with respect to its <i>projected outputs</i> .	<ul style="list-style-type: none"> <li>• Renumbered to <b><u>1.1.6</u></b></li> <li>• To include CC's oversight functions similar to proposed amendments to <i>WESM Rules</i> Clause 3.5.5.11</li> </ul>
SECTION 2 DEFINITIONS, REFERENCES, AND INTERPRETATION 2.1 Definitions	2.1.2	(new)	<b><u>a) Expansion Unit. It shall refer to the expanded capacity of a must-dispatch generating unit or that built in phases and is designed to have the same plant substation and revenue meter as the existing capacity unit.</u></b>	<b><u>a) Expansion Unit. It shall refer to the expanded capacity of a must-dispatch generating unit or that built in phases and is designed to have the same plant substation and revenue meter as the existing capacity unit.</u></b>	To clarify the term used to describe the expanded unit in the assessment of the FAS compliance of the MDGUs.

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
SECTION 2.1 DEFINITIONS, REFERENCES, AND INTERPRETATION 2.1 Definitions	2.1.2	(new)	<b><u>b) Forecast Accuracy Standards Report. Reports which are prepared and issued by the Enforcement and Compliance Office, as prescribed in Section 4.4 of this Manual.</u></b>	<b><u>b) Forecast Accuracy Standards Report. Reports which are prepared and issued by the Enforcement and Compliance Office, as prescribed in Section 4.4 of this Manual.</u></b>	For reference to the type/s of report that ECO needs to prepare/issue in compliance with FAS Manual.
SECTION 2.1 DEFINITIONS, REFERENCES, AND INTERPRETATION 2.1 Definitions	2.1.2	a) Forecast percentage error. Error (in %) of the <i>projected output</i> submitted by a <i>must dispatch generating unit</i> with respect to its maximum <i>metered quantity</i> over a <i>billing period</i> as dependable capacity and calculated in accordance with Section 4.2.3.	a) <del>c)</del> Forecast percentage error. Error (in %) of the <i>projected output</i> submitted by a <i>must dispatch generating unit</i> with respect to its maximum <i>metered quantity</i> over a <i>billing period</i> as dependable capacity and calculated in accordance with Section 4.2.3.	a) <del>c)</del> Forecast percentage error <b>(FPE)</b> . Error (in %) of the <i>projected output</i> submitted by a <i>must dispatch generating unit</i> with respect to its maximum <i>metered quantity</i> over a <i>billing period</i> as dependable capacity and calculated in accordance with Section 4.2.3.	Renumbered to <b>c</b> and included the abbreviation
	2.1.2	b) Initial loading. Loading (in MW) for the beginning of the <i>dispatch interval</i> assumed in, or estimated by, the dispatch optimization performed prior to the beginning of that <i>dispatch interval</i> .	<del>b) d)</del> Initial loading. Loading (in MW) for the beginning of the <i>dispatch interval</i> assumed in, or estimated by, the dispatch optimization performed prior to the beginning of that <i>dispatch interval</i> . <b><u>It shall refer to the previous dispatch schedule of the must dispatch generating unit. For example, the initial loading for 0105H shall be the dispatch schedule for 0100H.</u></b>	<del>b) d)</del> Initial loading. <b>Loading (in MW) for the beginning of the dispatch interval assumed in, or estimated by, the dispatch optimization performed prior to the beginning of that dispatch interval.</b>	Renumbered to <b>d</b> <b>Note:</b> The RCC decided to retain the original provision considering it is still applicable.

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
	2.1.2	c) MAPE. Abbreviation of <i>mean absolute percentage error</i> .	e) <del>e</del> MAPE. x x x	<del>e) MAPE. x x x</del>	Deleted since abbreviation is proposed to be included in the spelled out MAPE
	2.1.2	d) Mean absolute percentage error. Mean of the <i>forecast percentage errors</i> of a <i>must dispatch generating unit</i> over a certain period calculated in accordance with Section 4.2.1.	d) <del>f</del> Mean absolute percentage error. x x x	d) <u>e</u> Mean <del>a</del> Absolute Percentage <del>e</del> Error (MAPE). x x x	<ul style="list-style-type: none"> <li>Renumbered to <u>e</u> and clerical correction.</li> <li>Included the abbreviation</li> </ul>
	2.1.2	e) Must dispatch generating unit. A <i>generating unit</i> so designated by the <i>Market Operator</i> under clause 2.3.1.5 of the <i>WESM Rules</i> and is provided <i>Must Dispatch</i> . For brevity and when the context applies, this also refers to a <i>generation company</i> that operates a <i>must dispatch generating unit</i> in this <i>Market Manual</i> .	e) <del>Must dispatch generating unit. A generating unit so designated by the Market Operator under clause 2.3.1.5 of the WESM Rules and is provided Must Dispatch. For brevity and when the context applies, this also refers to a generation company that operates a must dispatch generating unit in this Market Manual.</del>	e) <del>Must dispatch generating unit. A generating unit so designated by the Market Operator under clause 2.3.1.5 of the WESM Rules and is provided Must Dispatch. For brevity and when the context applies, this also refers to a generation company that operates a must dispatch generating unit in this Market Manual.</del>	Deleted since this is already defined in WESM Rules
	2.1.2	f) PERC95. Abbreviation of <i>percentile 95 of the forecasting error</i> .	f) <u>g</u> PERC95. Abbreviation of <del>p</del> Percentile 95 of the forecasting error.	<del>f) PERC95. Abbreviation of percentile 95 of the forecasting error.</del>	Deleted since abbreviation is proposed to be included in the spelled out PERC95
	2.1.2	g) Percentile 95 of the forecasting error. The value (in %) not exceeding 95% of the <i>forecast percentage errors</i>	g) <u>h</u> Percentile 95 of the forecasting error. x x x	g) <u>f</u> Percentile 95 of the forecasting error ( <u>PERC95</u> ). <del>The value (in %) not exceeding 95% of the forecast</del>	<ul style="list-style-type: none"> <li>Provide clarity on the definition of PERC95</li> </ul>

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
		of the <i>must dispatch generating unit</i> during a certain period (see Section 6, Appendix A of this Manual).		<del>percentage errors of the must dispatch generating unit during a certain period (see Section 6, Appendix A of this Manual). It shall mean that 95% of all the FPEs during the period should not exceed the standard set forth in Section 4.1.1 of this Manual.</del>	<ul style="list-style-type: none"> <li>Included the abbreviation</li> <li>Renumbered to <b>f</b></li> </ul>
	2.1.2	h) Projected quantity. Estimated <i>generation</i> of a <i>must dispatch generating unit</i> over a <i>dispatch interval</i> based on its submitted <i>projected output</i> assuming linear ramping calculated in accordance with Section 4.2.4.	<del>h) i</del> <b>j</b> Projected quantity. x x x	<del>h) g</del> <b>g</b> Projected quantity. x x x	Renumbered to <b>g</b>
	2.1.2	i) Transition Period. The period specified by the <i>DOE</i> wherein the provisions under Section 4.5 shall apply.	<del>i) j</del> <b>j</b> Transition Period. The period <del>specified by the DOE wherein the provisions under 4.5 shall apply</del> <b>referred to in Section 4.5 of this Manual.</b>	<del>i) h</del> <b>h</b> Transition Period. The period <del>specified by the DOE wherein the provisions under 4.5 shall apply</del> <b>referred to in Section 4.5 of this Manual.</b>	<ul style="list-style-type: none"> <li>Provide for the specific duration of transition for clarity.</li> <li>Section 4.5 – 6 months from implementation of the EWDO.</li> <li>Renumbered to <b>h</b></li> </ul>

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
SECTION 3 – RESPONSIBILITIES 3.1 Enforcement and Compliance Office	3.1.1	The <i>Enforcement and Compliance Office</i> shall evaluate annually the compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards in this <i>Market Manual</i>	The <i>Enforcement and Compliance Office</i> shall <u>assess, evaluate annually and issue the cumulative results of MAPE and PERC95 to</u> compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards in this <i>Market Manual</i> . <u>on a monthly and annual basis in accordance with the procedures set forth in Section 4.4 hereof.</u>  <u>The <i>Enforcement and Compliance Office</i> shall, for this purpose, establish a detailed process or procedure of compliance monitoring and assessment and prescribe a reply format or template that may be accomplished by the Generation Company as part of the monitoring process.</u>	The <i>Enforcement and Compliance Office</i> shall <u>assess, evaluate annually and issue the cumulative results of MAPE and PERC95 to</u> compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards in this <i>Market Manual</i> . <u>on a monthly and annual basis in accordance with the procedures set forth in Section 4.4 hereof.</u>  <u>The <i>Enforcement and Compliance Office</i> shall, for this purpose, establish a detailed process or procedure of compliance monitoring and assessment and prescribe a reply format or template that may be accomplished by the Generation Company as part of the monitoring process.</u>	<ul style="list-style-type: none"> <li>For consistency with Section 4.4.2 (renumbered to 4.4.5) of this Manual -requiring <u>monthly</u> reporting; and Section 4.4.1 (renumbered to 4.4.6) -requiring <u>annual</u> reporting</li> <li>2<sup>nd</sup> paragraph – to integrate current process as would allow ECO to efficiently gather adequate data, information, or evidence from the trading participants.</li> </ul>
	3.1.2	The <i>Enforcement and Compliance Office</i> shall report to the <i>PEM Board</i> and the <i>DOE</i> its evaluation on the annual compliance of each <i>must dispatch generating unit</i> to the forecast accuracy	The <i>Enforcement and Compliance Office</i> shall report to the <i>PEM Board</i> , <u>the <i>Compliance Committee</i></u> , and the <i>DOE</i> its evaluation on the annual compliance of each <i>must dispatch generating unit</i>	The <i>Enforcement and Compliance Office</i> shall report to the <i>PEM Board</i> , <u>the <i>Compliance Committee</i></u> , and the <i>DOE</i> its evaluation on the annual compliance of each <i>must dispatch generating unit</i>	<ul style="list-style-type: none"> <li>Included <i>Compliance Committee</i> in view of its oversight functions.</li> </ul>

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
		standards with respect to each <i>must dispatch generating unit's</i> projected <i>outputs</i>	to the forecast accuracy standards <b><u>as set forth in Section 4.4.6 of this Manual.</u></b> <del>with respect to each <i>must dispatch generating unit's</i> projected <i>outputs</i></del>	to the forecast accuracy standards <b><u>as set forth in Section 4.4.6 of this Manual.</u></b> <del>with respect to each <i>must dispatch generating unit's</i> projected <i>outputs</i></del>	<ul style="list-style-type: none"> <li>Reference to Section 4.4.6, as renumbered (previously Section 4.4.1)</li> </ul>
3.4 Generation Companies		[NEW]	<b><u>3.4.3 Generation companies shall coordinate with the Enforcement and Compliance Office for matters, data, or information necessary to establish, validate, and verify the incidents or circumstances referred to in Sections 4.3, and such other matters, data, or information relative to the calculation of MAPE and PERC95.</u></b>	<b><u>3.4.3 Generation companies shall coordinate with the Enforcement and Compliance Office for matters, data, or information necessary to establish, validate, and verify the incidents or circumstances referred to in Section 4.3, and such other matters, data, or information relative to the calculation of MAPE and PERC95.</u></b>	<ul style="list-style-type: none"> <li>To integrate the current process; to ensure that all the data/information used in the calculation of FAS results are verified/validated. This requires active participation of the trading participants.</li> <li>Provision supports the process requirement in the validation and verification in the recalculation of MAPE and Per95 in Section 4.3.</li> </ul>
3.5 Market Operator		[NEW]	<b><u>3.5.2 The Market Operator shall provide to the Enforcement and Compliance Office all the</u></b>	<b><u>3.5.2 The Market Operator shall provide to the Enforcement and Compliance Office all the</u></b>	<ul style="list-style-type: none"> <li>To integrate the current practice. All market data</li> </ul>

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
			<p><u>market data and information necessary for the calculation of MAPE and PERC95 and for verification or validation of data, when necessary.</u></p>	<p><u>market data and information, including the SO-validated individual and aggregated forecast data, necessary for the calculation of MAPE and PERC95 and for verification or validation of data, when necessary.</u></p>	<p>used in the calculation of FAS by ECO are obtained from IEMOP.</p> <ul style="list-style-type: none"> <li>The inclusion of SO-validated individual aggregated forecasts may be helpful in the validation / verification process.</li> </ul> <p>Note/s: This is also to ensure that the SO-validated individual forecasts returned to the MDGU day-ahead are considered in the latter's projected output submission for RTD. This also ensures that the MDGUs'</p>

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
					submissions to the MO does not significantly deviate from the aggregated VRE forecast generation unless there are valid circumstances.
SECTION 4 – FORECAST ACCURACY STANDARDS AND PROCEDURES			SECTION 4 – FORECAST ACCURACY STANDARDS, <u>AND PROCEDURES, AND SANCTIONS</u>	SECTION 4 – FORECAST ACCURACY STANDARDS, <u>AND PROCEDURES, AND SANCTIONS</u>	To align the title with the additional proposed subsection on sanctions (Section 4.6)
4.1 Standards	4.1.2	The MAPE and PERC95 of each <i>must dispatch generating unit</i> shall be calculated over the period starting on the 26 <sup>th</sup> of December of a year and ending on the 25 <sup>th</sup> of December of the succeeding year.	The MAPE and PERC95 of each <i>must dispatch generating unit</i> shall be calculated <u>every billing period in cumulative results and shall be reported to each Generation Company within the timeline prescribed in Section 4.4 hereof. The annual cumulative results covering</u> <del>ever the period starting on the 26<sup>th</sup> of December of a year and ending on the 25<sup>th</sup> of December of the succeeding year</del> <u>shall be determined with finality by the</u>	The MAPE and PERC95 of each <i>must dispatch generating unit</i> shall be calculated <u>every billing period in cumulative results and shall be reported to each Generation Company within the timeline prescribed in Section 4.4 hereof. Subject to the provisions of Section 4.6 of this Manual, the annual cumulative results covering</u> <del>ever the period starting on the 26<sup>th</sup> of December of a year and ending on the 25<sup>th</sup> of December of the succeeding</del>	To integrate the current procedure (due process requirement):  Monthly FASR is issued to afford the Generation Companies the opportunity to see the results, provide relevant data as basis for recalculation, if any, and be able to catch

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
			<u><b>Enforcement and Compliance Office within the period prescribed in Section 4.4.6 of this Manual</b></u>	year <u><b>shall be determined with finality by the Enforcement and Compliance Office within the period prescribed in Section 4.4.6 of this Manual</b></u>	up by improving its performance in the succeeding months.
	4.1.3	Subject to Section 4.5 of this <i>Market Manual</i> , must dispatch generating units who fail to meet the requisite forecast accuracy standards set out in Section 4.1.1 of this <i>Market Manual</i> may be liable for sanctions imposed under Clause 7.2 of the <i>WESM Rules</i> , and in accordance with the <i>WESM Penalty Manual</i> .	Subject to Sections <del>4.5 and 4.6</del> of this <i>Market Manual</i> , <u><b>the Generation Companies of the must dispatch generating units</b></u> <del>who</del> <u><b>which</b></u> fail to meet the requisite forecast accuracy standards <u><b>based on the annual Forecast Accuracy Standards Report shall be considered in breach of</b></u> <del>set out in</del> Section 4.1.1 of this <i>Market Manual</i> <u><b>and</b></u> may be liable for sanctions imposed under Clause 7.2 of the <i>WESM Rules</i> , and in accordance with the <i>WESM Penalty Manual</i> .	Subject to Sections 4.5 <u><b>and 4.6</b></u> of this <i>Market Manual</i> , <u><b>the Generation Companies</b></u> of the must dispatch generating units <del>who</del> <u><b>which</b></u> fail to meet the requisite forecast accuracy standards <u><b>based on the annual Forecast Accuracy Standards Report shall be considered in breach of</b></u> <del>set out in</del> Section 4.1.1 of this <i>Market Manual</i> <u><b>and may shall</b></u> be liable for sanctions imposed under Clause 7.2 of the <i>WESM Rules</i> , and in accordance with the <i>WESM Penalty Manual</i> .	For clarity – only the breach based on annual (final) FAS results shall be subject to sanctions per WESM Penalty Manual.
4.2 Calculations	4.2.6	A one hundred (100) percent FPE shall be imposed to a must dispatch generating unit for non-submission of projected output.	A one hundred (100) percent FPE shall be imposed to a must dispatch generating unit for non-submission of projected output. <u><b>The non-submission of projected output referred to in this section shall exclude submission of zero (0) MW nomination or cancellation</b></u>	A one hundred (100) percent FPE shall be imposed to a must dispatch generating unit for non-submission of projected output. <u><b>The non-submission of projected output referred to in this section shall exclude submission of zero (0) MW nomination or cancellation</b></u>	To distinguish active nomination of zero (0) MW or cancellation of nomination due to unavailability of the plant, from the non-submission at all.

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
			<u>of nomination based on the zero projection or load profile of the <i>must dispatch generating unit</i>.</u>	<u>of nomination based on the zero projection or load profile of the <i>must dispatch generating unit</i>.</u>	
4.2 Calculations		[NEW]	<p><u>4.2.8 For generating plants with <i>expansion unit</i> that is either on test and commissioning or in actual operation, as may be allowed by the rules, but is awaiting the issuance of the <i>Certificate of Compliance</i> or the <i>Provisional Authority to Operate</i>, the following shall apply:</u></p> <p><u>a) A zero (0) FPE shall be imposed if the <i>projected quantity</i> is less than the combined metered quantity.</u></p> <p><u>b) A one hundred (100) FPE shall be imposed if the <i>projected quantity</i> is greater than the combined metered quantity.</u></p>	<p><u>4.2.8 For generating plants with <i>expansion unit</i> that is either on test and commissioning or in actual operation, as may be allowed by the rules, but is awaiting the issuance of the <i>Certificate of Compliance</i> or the <i>Provisional Authority to Operate</i>, <u>the calculation set forth in Appendix B of this Manual shall apply.</u></u></p>	<ul style="list-style-type: none"> <li>To address changes and possible constraints in the nominations, meter readings of the existing unit, and additional unit while the latter is on test and commissioning stage or before the commercial operation registration.</li> <li>The FPE Computation for MDGU with Expansion Unit is proposed to be added as Appendix in lieu of the</li> </ul>

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
			<p><u>For this purpose, the combined metered quantity shall refer to the sum of the metered quantity of the existing capacity unit and that of the expansion unit.</u></p> <p><u>This provision shall apply until the registered <i>Pmax</i> of the power plant or facility is updated in the WESM to include both the capacity of the existing and expansion unit.</u></p>		<p>enumerations in the PEM Board-approved Urgent Amendments. Said Appendix is based on the Annex C of WESM Compliance Bulletin 16.1.<sup>5</sup></p>
4.3 Exclusions		4.3 Exclusions	4.3 Exclusions <b><u>and Other Basis for Recalculation</u></b>	4.3 Exclusions <b><u>and Other Basis for Recalculation</u></b>	Align the title with the additional provisions under this Sub-section

<sup>5</sup> <https://www.wesm.ph/market-governance/enforcement-and-compliance/eco-advisories/wesm-compliance-bulletin>

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
		[NEW]	<u>4.3.2 Any variance in the market data used in the calculation of MAPE and/or PERC95 that may be discovered during the monitoring and assessment must be properly addressed, validated, and verified within the prescribed timeline. The Generation Company shall provide adequate supporting documents to substantiate any claim of data variance. Only those data that have been proven and verified to be inaccurate, inconsistent, or erroneous shall be considered in the recalculation of the results.</u>	<u>4.3.2 Any variance in the market data used in the calculation of MAPE and/or PERC95 that may be discovered during the monitoring and assessment must be properly addressed, validated, and verified within the prescribed timeline. The Generation Company shall provide adequate supporting documents to substantiate any claim of data variance. Only those data that have been proven and verified to be inaccurate, inconsistent, or erroneous shall be considered in the recalculation of the results.</u>	<ul style="list-style-type: none"> <li>To address the recurring problem on data inconsistency, non-updating, or variance.</li> <li>Provides basis for the process requirements from Generation Companies.</li> </ul>
4.4. Monitoring, Reporting, and Review		[NEW]	<u>4.4.1 The Enforcement and Compliance Office shall monitor the compliance of the Generation Company of each must dispatch generating unit, calculate the MAPE and PERC95 and issue the Preliminary Forecast Accuracy Standards Reports including the data used in the calculation within 30 business days from the end</u>	<u>4.4.1 The Enforcement and Compliance Office shall monitor the compliance of the Generation Company of each must dispatch generating unit, calculate the MAPE and PERC95 and issue the Preliminary Forecast Accuracy Standards Reports including the data used in the calculation within 30 business days from the end</u>	To provide general provision on monitoring and issuance of preliminary results to the trading participants.

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
			<p><u>of the calendar month of the covered monitoring period. For instance, the Preliminary Forecast Accuracy Standards Report for September billing period shall be issued not later than 30 October.</u></p>	<p><u>of the calendar month of the covered monitoring period. For instance, the Preliminary Forecast Accuracy Standards Report for September billing period shall be issued not later than 30 October.</u></p>	
		[NEW]	<p><u>4.4.2 The Generation Company shall provide a reply or confirmation of the MAPE and PERC95 results, as the case may be, to the Enforcement and Compliance Office within fifteen (15) business days from receipt of the Preliminary Forecast Accuracy Standards Report. If any of the circumstances fall within the exclusions and data variance under Section 4.3 of this Market Manual, the Generation Company shall likewise provide and submit the documents or proof thereof as basis for recalculation of the results.</u></p>	<p><u>4.4.2 The Generation Company shall provide a reply or confirmation of the MAPE and PERC95 results, as the case may be, to the Enforcement and Compliance Office within fifteen (15) business days from receipt of the Preliminary Forecast Accuracy Standards Report. If any of the circumstances fall within the exclusions and data variance under Section 4.3 of this Market Manual, the Generation Company shall likewise provide and submit the documents or proof thereof as basis for recalculation of the results.</u></p>	<ul style="list-style-type: none"> <li>• To afford the participants the opportunity to check the results and provide adequate basis for recalculation of the results, as may be allowed under Section 4.3 of the Manual</li> <li>• Provision supports the process requirement in the validation and verification in the recalculation of MAPE and Per95 in Section 4.3.</li> </ul>

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
		[NEW]	<b><u>4.4.3 The Enforcement and Compliance Office shall assess, validate, and verify the responses and documents submitted by the Generation Company. It may also consult the Market Operator, the System Operator, or the Metering Service Provider, as necessary, to ascertain the truthfulness of the claim or allegations of the Generation Company. The Enforcement and Compliance Office shall perform the recalculation, as may be appropriate.</u></b>	<b><u>4.4.3 The Enforcement and Compliance Office shall assess, validate, and verify the responses and documents submitted by the Generation Company. It may also consult the Market Operator, the System Operator, or the Metering Service Provider, as necessary, to ascertain the truthfulness of the claim or allegations of the Generation Company. The Enforcement and Compliance Office shall perform the recalculation, as may be appropriate.</u></b>	To ensure that there is adequate basis for recalculation.
		[NEW]	<b><u>4.4.4 The Enforcement and Compliance Office shall issue the Final Forecast Accuracy Standards Report within seventy (70) business days from the end of the calendar month of the covered monitoring period regardless of whether a reply or confirmation is submitted by the concerned Generation Company or whether a recalculation of the results was performed</u></b>	<b><u>4.4.4 The Enforcement and Compliance Office shall issue the Final Forecast Accuracy Standards Report within seventy (70) business days from the end of the calendar month of the covered monitoring period regardless of whether a reply or confirmation is submitted by the concerned Generation Company or whether a recalculation of the results was performed</u></b>	To issue the final monthly results after recalculation. The ECO is mandated to issue the Final monthly reports – with or without change from preliminary results as official reference for the monthly performance or compliance of the MDGU.

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
			<u>for a particular <i>must</i> dispatch generating unit.</u>	<u>for a particular <i>must</i> dispatch generating unit.</u>	
	4.4.2	4.4.2 The <i>Enforcement and Compliance Office</i> shall report to the <i>PEM Board</i> and the <i>DOE</i> the status of the compliance of each <i>must dispatch generating unit</i> to the <i>forecast accuracy standards</i> as of the most recent <i>Billing Period</i> with a <i>final statement</i> on a monthly basis.	4.4.2 <del>4.4.5</del> The <i>Enforcement and Compliance Office</i> shall <u>submit a consolidated monthly</u> report to the <i>PEM Board</i> , <u>the Compliance Committee</u> , and the <i>DOE</i> <u>containing</u> the status of the compliance of each <i>must dispatch generating unit</i> to the <i>forecast accuracy standards</i> as of the most recent <i>Billing Period</i> with a <i>final statement</i> on a monthly basis <u>based on the Final Forecast Accuracy Standards Report within the same timeline provided in Section 4.4.4 of this Manual.</u>	4.4.2 <del>4.4.5</del> The <i>Enforcement and Compliance Office</i> shall <u>submit a consolidated monthly</u> report to the <i>PEM Board</i> , <u>the Compliance Committee</u> , and the <i>DOE</i> <u>containing</u> the status of the compliance of each <i>must dispatch generating unit</i> to the <i>forecast accuracy standards</i> as of the most recent <i>Billing Period</i> with a <i>final statement</i> on a monthly basis <u>based on the Final Forecast Accuracy Standards Report within the same timeline provided in Section 4.4.4 of this Manual.</u>	<ul style="list-style-type: none"> <li>• Re-arranged for coherence. Previously Section 4.4.2 with modification</li> <li>• Renumbered to <b>4.4.5</b></li> <li>• Included Compliance Committee in view of its oversight functions.</li> </ul>
	4.4.1	4.4.1 The <i>Enforcement and Compliance Office</i> shall report to the <i>PEM Board</i> and the <i>DOE</i> the annual compliance of each <i>must dispatch generating unit</i> to the <i>forecast accuracy standards</i> with	4.4.1 <del>4.4.6</del> The <i>Enforcement and Compliance Office</i> shall <u>likewise submit an annual consolidated</u> report to the <i>PEM Board</i> , <u>the Compliance Committee</u> , and the <i>DOE</i> the annual compliance of each	4.4.1 <del>4.4.6</del> The <i>Enforcement and Compliance Office</i> shall <u>likewise submit an annual consolidated</u> report to the <i>PEM Board</i> , <u>the Compliance Committee</u> , and the <i>DOE</i> the annual compliance of each	<ul style="list-style-type: none"> <li>• Re-arranged for coherence. Previously Section 4.4.1 with modification</li> <li>• Renumbered to <b>4.4.6</b></li> </ul>

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
		respect to its <i>projected outputs</i> within two (2) calendar months after the end of the period specified in Section 4.1.2.	<del>must dispatch generating unit to the forecast accuracy standards with respect to its <i>projected outputs</i> within two (2) calendar months after the end of the period specified in Section 4.1.2.</del> <b><u>on or before 31 March of the year following the covered monitoring period.</u></b>	<del>must dispatch generating unit to the forecast accuracy standards with respect to its <i>projected outputs</i> within two (2) calendar months after the end of the period specified in Section 4.1.2.</del> <b><u>on or before 31 March of the year following the covered monitoring period.</u></b>	<ul style="list-style-type: none"> <li>• Provide a more definitive period for compliance</li> <li>• Proposed period based on the calculated period to process one whole year of data.</li> <li>• Included Compliance Committee in view of its oversight functions.</li> </ul>
	4.4.3	4.4.3 The <i>Market Operator</i> shall review annually the forecast accuracy standards set in Section 4.1 and shall provide recommendation to the <i>PEM Board</i> and the <i>DOE</i> .	<del>4.4.3</del> <b><u>4.4.7</u></b> The <i>Market Operator</i> <b><u>or the Enforcement and Compliance Office</u></b> shall review annually the forecast accuracy standards set in Section 4.1 and shall provide recommendation to the <i>PEM Board</i> and the <i>DOE</i> .	4.4.3 <b><u>4.4.7</u></b> The <i>Market Operator</i> <b><u>or the Enforcement and Compliance Office, in consultation with the System Operator,</u></b> shall review annually the forecast accuracy standards set in Section 4.1 and shall provide recommendation to the <i>PEM Board</i> and the <i>DOE</i> .	<ul style="list-style-type: none"> <li>• Renumbered to <b><u>4.4.7</u></b></li> <li>• To include ECO, being the office in charge of the monitoring of FAS.</li> <li>• To include the ECO as one of the parties responsible in reviewing the FAS annually in consultation with SO</li> </ul>
4.5 Transition Period	4.5.1	A <i>transition period</i> covering the period specified by the <i>DOE</i> shall be implemented. The sanction on the non-compliance with the forecast	A <i>transition period</i> <b><u>shall be six (6) months</u></b> covering the period specified by the <i>DOE</i> shall be implemented. The sanction on the non-	A <i>transition period</i> <b><u>shall be six (6) months</u></b> covering the period specified by the <i>DOE</i> shall be implemented. The sanction on the non-	To reflect the current practice (as consulted with DOE – DOE will no longer issue formal

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
		accuracy standards shall be implemented upon the commercial operation of the enhanced <i>WESM</i> design and operations.	<del>compliance with the forecast accuracy standards shall be implemented upon</del> <b><u>from</u></b> the commercial operation of the enhanced <i>WESM</i> design and operations <b><u>unless extended by the DOE through appropriate issuance.</u></b>	<del>compliance with the forecast accuracy standards shall be implemented upon</del> <b><u>from</u></b> the commercial operation of the enhanced <i>WESM</i> design and operations <b><u>unless extended by the DOE through appropriate issuance.</u></b>	issuance re: lifting of transition period; and the monitoring officially starts in January 2022 billing period).  Given that the annual FAS rating is reckoned from 26 December of the year until 25 December of the succeeding year, the annual FAS rating could NOT be computed for 2021 as the EWDO commenced only on 26 June 2021 (or short of 6 months for annual rating).  The annual FAS rating (Jan to Dec billing period) could be computed beginning January 2022
	4.5.3	Before the end of the <i>transition period</i> , the <i>Market Operator</i> shall submit to the <i>DOE</i> and other concerned government agencies a report on the compliance of <i>must</i>		Before the end of the <i>transition period</i> , the <del><i>Market Operator</i></del> <b><u>Market Operator Enforcement and Compliance Office</u></b> shall submit to the <i>DOE</i> and other concerned government	For consistency with Responsibilities of ECO under Section 3.1 of this Manual.

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
		<i>dispatch generating units</i> to the forecast accuracy standards, and it shall inform the <i>must dispatch generating units</i> on their performance with respect to the forecast accuracy standards.		agencies a report on the compliance of <i>must dispatch generating units</i> to the forecast accuracy standards, and it shall inform the <i>must dispatch generating units</i> on their performance with respect to the forecast accuracy standards.	
		[NEW]	<b><u>4.6 PENALTIES AND SANCTIONS</u></b>	<b><u>4.6 PENALTIES AND SANCTIONS</u></b>	For clarity of the application of the penalty based on possible sets of circumstances.
		[NEW]	<b><u>4.6.1 One <i>breach</i> is counted for each category of forecast accuracy standard that was not complied with based on the Annual Forecast Accuracy Standards Report. The breach of MAPE and PERC95 shall be counted as separate breach even if they occur on the same period subject to penalty under Clause 7.2 of the WESM Rules and the relevant provisions of WESM Penalty Manual.</u></b>	<b><u>4.6.1 One <i>breach</i> is counted for each category of forecast accuracy standard that was not complied with based on the Annual Forecast Accuracy Standards Report. The breach of MAPE and PERC95 shall be counted as separate breach even if they occur on the same period subject to penalty under Clause 7.2 of the WESM Rules and the relevant provisions of WESM Penalty Manual.</u></b>	To clarify the separate findings and separate penalty imposition for MAPE and PERC95 consistent with the provisions of the WESM Penalty Manual.

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
		[NEW]	<p><b><u>4.6.2 The Generation Company with must dispatch generating unit that is in operation for less than a year and is found in breach of MAPE or PERC95, shall be:</u></b></p> <p><b><u>a) imposed a penalty in proportion to the number of months in operation during the covered monitoring year. For instance, the plant commenced operation on 26 March, the financial penalty to be imposed shall be in proportion to the nine (9) billing months over the twelve (12) month-period.</u></b></p> <p><b><u>b) exempted from liability, if it commences operation within three (3) months prior to the end of the covered monitoring year.</u></b></p> <p><b><u>A must dispatch generating unit shall be considered in operation, for purposes of this Section, upon commencement of its operation or participation in the WESM either by virtue of the Final Certificate of</u></b></p>	<p><b><u>4.6.2 The Generation Company with must dispatch generating unit that is in operation for less than a year and is found in breach of MAPE or PERC95, shall be:</u></b></p> <p><b><u>a) imposed a penalty in proportion to the number of months in operation during the covered monitoring year. For instance, the plant commenced operation on 26 March, the financial penalty to be imposed shall be in proportion to the nine (9) billing months over the twelve (12) month-period.</u></b></p> <p><b><u>b) exempted from liability, if it commences operation within three (3) months prior to the end of the covered monitoring year.</u></b></p> <p><b><u>A must dispatch generating unit shall be considered in operation, for purposes of this Section, upon commencement of its operation or participation in the WESM either by virtue of the Final Certificate of</u></b></p>	<p>To consider situation where the duration of commercial operation is less than one year.</p> <p>For (a): duration of commercial operation within the year is 9 months and above. Proportionate penalty.</p> <p>For (b): duration is less 3 months or less. MDGUs which commenced operation in October, November, and December billing period – exempted. This is in consideration of the adjustments during the initial period of operation.</p> <p>Reckoning of operation: Issuance of FCATC (if plant opts to operate already) or commercial operation</p>

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
			<u>Approval to Connect or the commercial operation registration in the WESM, whichever is applicable.</u>	<u>Approval to Connect or the commercial operation registration in the WESM, whichever is applicable.</u>	registration, as the case may be.
SECTION 5 – AMENDMENT, PUBLICATION, AND EFFECTIVITY  5.3 Effectivity		[NEW]	<u>5.3.2 The amendments made herein and approved pursuant to the <i>Procedures for Changes to the WESM Rules, Retail Rules and Market Manuals</i> shall have a retroactive effect from the beginning of the year that the said amendments are approved, unless the application thereof becomes inequitable and</u>	<u>5.3.2 The amendments made herein and approved pursuant to the <i>Procedures for Changes to the WESM Rules, Retail Rules and Market Manuals</i> shall have a retroactive effect from the beginning of the year that the said amendments are approved, unless the application thereof becomes inequitable and</u>	The final FAS results are <u>cumulative</u> in nature and are determined on <u>annual basis</u> . It would be impractical to have different sets of the governing rule in different months in one year. Thus, to always ensure uniformity and

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
			<p><u>impracticable under the circumstances. For avoidance of doubt, the amended provisions that are given retroactive effect shall be indicated in the PEM Board resolution and/or DOE issuance approving or promulgating them.</u></p>	<p><u>impracticable under the circumstances. For avoidance of doubt, the amended provisions that are given retroactive effect shall be indicated in the PEM Board resolution and/or DOE issuance approving or promulgating them.</u></p>	<p>practicality in the application of the rules/provisions, the same should be applied for the whole year.</p> <p>For instance, the amendment is approved in July 2023, it shall be applied from January to December 2023 billing period.</p> <p><i>“unless the application thereof becomes inequitable and impracticable under the circumstances” –to consider the prospective application of the amendment in the event that it would become unjust or affect the vested rights of the generation company (e.g. stricter rule).</i></p>

<b>B. WESM Manual on Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)</b>					
<b>Title</b>	<b>Clause</b>	<b>Original Provision</b>	<b>PEM Board-approved Urgent Amendments</b>	<b>Proposed Amendment</b>	<b>Rationale</b>
Section 6 Appendices		[NEW]		<b>Appendix B</b>  (see attached Annex B)	<ul style="list-style-type: none"> <li>• Related to proposed Section 4.2.8</li> <li>• The FPE Computation for MDGU with Expansion Unit is proposed to be added as Appendix based on the Annex C of WESM Compliance Bulletin 16.1.</li> </ul>

## Appendix B – FPE Computation for MDGU with Expansion Unit

1. During Test and Commissioning (T&C) of the Expansion Unit.
  - a. For intervals where T&C is conducted on the plant or facility's expansion unit, the following conditions shall apply for purposes of computing the FPE of the whole facility:
    - If Projected Quantity (PQ)<sup>6</sup> ≤ Combined MQ<sup>7</sup> = 0 FPE
    - If PQ > Combined MQ = 100 FPE
  - b. For intervals where the plant is operating without the expansion unit under T&C, although during the T&C period, as indicated in the Provisional Certificate of Authority to Connect (PCATC), the formula for FPE, as referred to in Section 4.2.3 of the FAS Manual, shall be applied.

Note: The ECO shall require the MDGU to submit proof of actual T&C schedule or activity of the expansion unit on certain dispatch intervals.

2. **After issuance of the FCATC and upon its Market effectivity date as determined by the Market Operator** but the updated Pmax including the additional MW capacity of the expansion unit is not yet reflected in the WESM Registration and the Market Management System (MMS), thus, resulting in the inability of the MDGU to submit nominations for the said expansion unit, the following FPE shall be imposed –
  - a. If the nomination or the submitted projected output (in MW) is equal to the current registered capacity, the following conditions shall apply for purposes of computing FPE:
    - If PQ ≤ Combined MQ = 0 FPE
    - If PQ > Combined MQ = 100 FPE
  - b. If the nomination or the submitted projected output (in MW) is less than the current registered capacity, the formula for FPE, as referred to in Section 4.2.3 of the FAS Manual, shall be applied.

Note: The ECO shall require the MDGU to submit a copy of the FCATC. It shall also be determined or confirmed with the MDGU if it intends to continue to operate already pursuant to Section 4.4.5 of the DOE DC2022-05-0015<sup>8</sup> while awaiting the issuance of the Certificate of Compliance (COC) or Provisional Authority to Operate (PAO) from the Energy Regulatory Commission.

- c. Once the plant's Pmax registration is already updated to include the facility's expansion unit, the formula for FPE, as referred to in Section 4.2.3 of the FAS Manual, shall be applied.

---

<sup>6</sup> Calculated under Section 4.2.4 of the FAS Manual

<sup>7</sup> The combined metered quantity shall refer to the sum of the metered quantity of the existing capacity unit and that of the expansion unit.

<sup>8</sup> "Supplementing Department Circular No. DC2021-06-0013 on the Framework Governing the Test and Commissioning of Generation Facilities for Ensuring Readiness to Deliver Energy to the Grid or Distribution Network." Published in DOE Website in June 2022.



# Assessment Report on the Implementation of Urgent Amendments regarding the Forecast Accuracy Standards

---

**MAY 2023**

This Report is prepared by the  
Philippine Electricity Market Corporation –  
Market Assessment Group for the  
Rules Change Committee

## Contents

<b>1.0</b>	<b>SUMMARY .....</b>	<b>2</b>
<b>2.0</b>	<b>INTRODUCTION .....</b>	<b>2</b>
<b>3.0</b>	<b>DESCRIPTION OF PROPOSAL .....</b>	<b>3</b>
<b>4.0</b>	<b>SCOPE OF REPORT .....</b>	<b>5</b>
<b>5.0</b>	<b>UPDATES ON THE IMPLEMENTATION OF PROPOSED AMENDMENTS .....</b>	<b>5</b>
<b>6.0</b>	<b>RECOMMENDATION .....</b>	<b>9</b>

## 1.0 SUMMARY

On 26 June 2021, together with the implementation of the Enhanced WESM Design and Operations (EWDO), the Enforcement and Compliance Office (ECO) started its monitoring of the compliance of Trading Participants with must dispatch generating units to Forecast Accuracy Standards (FAS). This is pursuant to the Department of Energy (DOE) DC2021-03-0004<sup>9</sup> in which the function of monitoring the FAS was transferred from the Market Operator to the ECO.

During the period July 2021 to October 2022 billing months, several observations, issues and concerns were encountered in the monitoring of FAS. These were raised by the Trading Participants during the consultation meetings conducted by ECO.

To address properly the issues and concerns encountered, the ECO, in consultation with the DOE and Market Operator, formulated an urgent amendment primarily to (1) address the gap of the WESM Manual on the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual) with the actual procedures and process, and (2) to include the Must-Dispatch Generating Units (MDGUs) with Final Certificate of Approval to Connect (FCATC) in the coverage of FAS monitoring pursuant to DOE DC2022-05-0015<sup>10</sup>.

The urgent amendment was approved by the PEM Board on 23 November 2022 with the revised FAS Manual having a retroactive effect from January 2022 to December 2022 billing months, *i.e.*, *26 December 2021 to 25 December 2022*.

## 2.0 INTRODUCTION

Urgent amendments to the Market Rules and Manuals undergo an expedited rules change process whereby, following the review and deliberation of the RCC and approval of the PEM Board, the amendments are immediately implemented on a temporary, short-term basis up to a maximum period of twelve (12) months without the final approval of the DOE. Within this period and considering the actual implementation of the urgent amendments and comments from WESM Members and stakeholders on the corresponding general amendments, the RCC shall further deliberate on said amendments pursuant to the process for general amendments prescribed in Section 6 of the Rules Change Manual, for final approval and promulgation of the DOE.

---

<sup>9</sup> Department Circular No. DC2021-03-0004, Adopting Further Amendments to the Wholesale Electricity Spot Market (WESM) Rules and Market Manual on Procedures for the Monitoring of Forecast Accuracy Standards For Must Dispatch Generating Units for the Implementation of Enhancements to WESM Design and Operations

<sup>10</sup> Department Circular No. DC2022-05-0015, Supplementing Department Circular No. DC2021-06-0013 on the Framework Governing the Test and Commissioning of Generation Facilities for Ensuring Readiness to Deliver Energy to the Grid or Distribution Network

This Assessment Report was prepared for the Rules Change Committee (RCC) to comply with Section 7.4(f) of the WESM Manual on Procedures for Changes to the WESM Rules, Retail Rules and Market Manuals (“Rules Change Manual”) to aid in the RCC’s further evaluation of the urgent amendments to the WESM Rules and FAS Manual.

This Assessment Report will also assist the RCC in recommending to the PEM Board the possible extension of the effectivity of the said urgent amendments up to six (6) months. The corresponding general amendments will be subject to PEM Board’s approval and DOE’s final approval and promulgation.

### 3.0 DESCRIPTION OF PROPOSAL

Topic	Matters Relating to Enforcement Proceedings and Actions on Forecast Accuracy Standards
<b>Reference Code</b>	ORCP-WR-WM-22-12
<b>Original Proponent</b>	Philippine Electricity Market Corporation – the Governance Arm of the Electricity Market
<b>Date Submitted to RCC</b>	10 November 2022
<b>RCC Approval</b>	<a href="#">RCC Resolution No. 2022-13</a> dated 18 November 2022
<b>PEM Board Approval</b>	PEM Board Resolution No. 2022-54-06 dated 23 November 2022
<b>Documents Amended/Adopted</b>	1) WESM Rules 2) WESM Manual on Procedures for the Monitoring of the Forecast Accuracy Standards for Must Dispatch generating Units Issue 2.1 (FAS Manual 2.1)
<b>Effectivity of Amendments</b>	25 November 2023 <sup>11</sup>

The WESM Manual “Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units” Issue 2.0 (WESM-FASMD or “FAS Manual 2.0,” for brevity) was promulgated by the DOE on 16 March 2021. On 23 May 2022, ECO issued the WESM Compliance Bulletin Issue 16.0 or the “Interim Procedure and Guidelines for the Calculation of the Final Forecast Accuracy Standards Report” (“Guidelines”) to implement the provisions of the FAS Manual 2.0. The Guidelines provided the procedures in the conduct of FAS compliance monitoring by the ECO. It also provided guidance for the trading participants with must dispatch generating units (MDGUs) relating to the submission of relevant and necessary information for the final calculation of the Mean Absolute Percentage Error (MAPE) and Percentile 95 (PERC95).<sup>12</sup>

<sup>11</sup> The effectivity of amendments includes the retroactive clause under Section 5.3.2 of the FAS Manual

<sup>12</sup> WESM Compliance Bulletin 16.1 – Procedure and Guidelines for Validation, Recalculation and Publication of the FAS Reports

During the implementation of ECO's monitoring on FAS from July 2021 to October 2022, Trading Participants raised some issues and concerns encountered. These concerns were consulted by ECO with the Market Operator and the DOE; thus, PEMC proposed an urgent amendment on matters relating to enforcement proceedings and actions.

On 10 November 2022, PEMC submitted to the RCC the urgent proposal, which aim to:

1. address the gap between the FAS Manual 2.0 and the actual procedures and practices being adopted to implement the provisions of the said Manual;
2. ensure compliance with the requirements set forth in the DOE DC2022-05-0015<sup>13</sup> that seeks to include in the FAS-related enforcement proceedings/actions on must dispatch generating units with issued Final Certificate of Approval to Connect (FCATC);
3. define with more clarity the reference data for the calculation of the forecast percentage error and other terms used in the FAS Manual 2.0;
4. address some unique conditions, situations, or circumstances affecting the compliance of the must dispatch generating units but are not otherwise included in the FAS Manual 2.0;
5. give considerations or exemptions for some plants who have just commenced operations and have low chance of passing the mean absolute percentage error (MAPE) or the Percentile 95 of the forecasting error (Perc95) due to their limited time of participation in the WESM within the subject monitoring year; and
6. add provisions that will promote due process before any sanction is imposed relative to a finding of breach of MAPE and PERC95.

The proposed amendments satisfied the criteria of urgent amendment consistent with Section 3.1 (c) and (d) of the Rules Change Manual to:

- avoid, reduce the risk of, or mitigate the unintended adverse effect of the WESM Rules, Retail Rules and Market Manuals (or any of its amendments); and
- facilitate the implementation of any regulation, circular, order or issuance of the DOE or ERC pursuant to the EPIRA.

The amended market documents, i.e., WESM Rules and FAS Manual 2.1, were approved by the PEM Board on 23 December 2022. Under Section 5.3.2 of the FAS Manual 2.1, there is a retroactive effect from the beginning of the year that the said amendments are approved, i.e., January 2022 to December 2022 billing months, unless the application thereof becomes inequitable and impracticable under the circumstances.

---

<sup>13</sup> Pending the issuance of the COC by the ERC, a Generation Company that has been **issued with a final CATC** may be allowed to continue to operate and be compensated as price taker in the market, unless the ERC issues an Order for the Generation Company's immediate disconnection from the grid.

For this purpose, the Generation Company's dispatch shall be in accordance with the following:

4.4.5.1 For Variable Renewable Energy, the Generation Company shall x x x **comply with applicable forecast accuracy standards**; xxx" DOE DC2022-05-0015 (Emphasis supplied).

#### 4.0 SCOPE OF REPORT

The purpose of this report is to provide updates on the implementation of FAS monitoring for the RCC's reference in its deliberation of the corresponding general amendments and, if necessary, its recommendation to extend the effectivity of the urgent amendments for up to six (6) months.

This report covers the billing months from 26 December 2021 to 25 February 2023.

#### 5.0 UDATES ON THE IMPLEMENTATION OF PROPOSED AMENDMENTS

With the approval of the urgent amendments, the ECO issued on 22 December 2022 the WESM Compliance Bulletin 16.114 for the Trading Participants to be oriented about the FAS monitoring procedures and be guided on the type of documents and forms that may be submitted to ECO. Further, the ECO submitted to the PEM Board and published in the Governance Arm website the Annual Forecast Accuracy Standards Report for the billing period 26 December 2021 to 25 December 2022 on 31 March 2023. Further, the final monthly FAS Report for the January 2023 and February 2023 billing months were also published on 07 April 2023 and 07 May 2023, respectively.

Based on the timeline, the ECO shall issue a Final Monthly FAS Report within seventy (70) business days from the end of the calendar month of the covered monitoring period regardless of whether a reply of confirmation is submitted, or a recalculation was performed<sup>15</sup>.

The table below shows the timeline of the ECO's process of validation and publication of reports.

Process	Reports/ Forms	Platform/Tool	Timeline	Implementation
Issuance of Initial FAS Results	Preliminary FAS Report (FASR)	Compliance Post-Evaluation and Monitoring System (CPEMS)	Within 30 calendar days from the end of the calendar month of the covered monitoring period	Jan 2023: 28 Feb 2023 Feb 2023: 11 Apr 2023 Mar 2023: 10 May 2023

---

<sup>14</sup> WESM Compliance Bulletin 16.1 – Procedure and Guidelines for Validation, Recalculation and Publication of the FAS Reports

<sup>15</sup> Section 4.4.4 of the FAS Manual

Process	Reports/ Forms	Platform/Tool	Timeline	Implementation
Validation by Trading Participants	Accomplished FAS Form (AFASF)	File Transfer Protocol (FTP)	Within 15 calendar days from the publication of the Preliminary FASR	
Validation by ECO	Submitted AFASF and supporting documents	CPEMS	Within 15 calendar days from the receipt of AFASF	
Issuance of the Final FAS Results	Final Monthly FASR	CPEMS	Within 70 calendar days from the end of the calendar month of the covered monitoring period	Jan 2023: 07 Apr 2023 Feb 2023: 04 May 2023
Submission of the Annual Final FAS Results	Annual FASR	CPEMS	On or before 31 March of the year following the covered monitoring year	2022: 31 Mar 2023

In addition, Appendix A of this report provides updates on the implementation of the urgent amendments as of May 2023. Relative to the objectives of the urgent amendments, the following implementation highlights are observed:

**a) Improved FAS Monitoring Procedures**

The approved urgent amendments provided the additional provisions for the monitoring, submission of responses, reporting of results and other proceedings, including clear provisions on the responsibilities of the ECO, Market Operator and Trading Participants. The FAS Manual, as amended, now also clearly defines the reference data for the calculation of the forecast percentage error and other terms. As an example, it distinguishes active nomination of zero (0) MW or cancellation of nomination due to unavailability of the plant, from the non-submission of projected output. These were further explained by WESM Compliance Bulletin 16.1 issued by the ECO on 22 December 2022.

The ECO is already able to address concerns raised such as data variance, where there were inconsistent or erroneous data used in the calculation resulting in high forecast percentage error. Specifically, ECO is validating all relevant and received data, documents, and justifications, and verifying action/s prior to recalculating the MAPE or PERC 95.

For intervals that may need recalculation due to the occurrences of data error or non-updating/bad data that qualify as “data variance”, the Generation Companies shall provide adequate and substantiate information. The information presented became the basis of ECOs recalculation of the results and are considered in the issuance of final monthly reports.

**b) Compliance to DOE Issuance**

Pursuant to the DOE DC2022-05-0015, the FAS Manual Issue 2.1, explicitly provides that must dispatch generating units with issued FCATC, while awaiting issuance of the Certificate of Compliance (COC) by the ERC, shall comply with the FAS. Further, this was expanded in the FAS Manual to include must dispatch generating units with expansion units but is restricted to nominate its full capacity via the market management system. These enable the ECO to monitor such must dispatch generating units based on the FAS and to address the possible constraints in the nominations or metering data of the existing unit while the other unit is on test and commissioning.

In accordance with the DOE DC2022-05-0015, as of 25 January 2023, there are 93 facilities registered as MDGU in the WESM. ECO monitors a total of 71 facilities for Luzon and Visayas; 3 facilities are on test and commissioning; and 19 facilities are Mindanao plants which are exempted from the evaluation due to the commencement of WESM Mindanao on 26 January 2023, as summarized below:

Region	No. of Resources	Remarks
Luzon	55	Two (2) facilities are under test and commissioning
Visayas	16	One Facility (1) is under test and commissioning
Mindanao	19	Exempted in evaluation (WESM Mindanao commenced on 26 January 2023)

**c) Practical Application of Penalties and Sanctions**

The FAS Manual, as amended, now considers unique conditions, situations, or circumstances affecting the compliance of the must dispatch generating units. In particular, consideration is given when the duration of commercial operation is less than one (1) year such that:

- For a duration of nine (9) months and above, the penalty is in proportion to the number of months in operation during the covered monitoring year; and
- For a duration of three (3) months or less, exempted from liability.

For the monitoring period of 26 December 2021 to 25 December 2022, ECO included the monitoring of MDGUs with FCATC. Four (4) out of five (5) plants with

issued FCATC or commercially operated during the last quarter of 2022 failed to meet the standards (MAPE and PERC95). These plants were exempted from penalty/sanction considering that it commences its operation within the three (3) months prior the end of the monitoring period.<sup>16</sup>

#### **i. Exemption**

The ECO commenced its compliance monitoring of FAS in July 2021, however, there was a transition period from July to December 2021. The Urgent Amendments provided clarity on this transition period. MDGUs who fail to meet the required forecast accuracy standards during the transition period, shall not be subject to application of penalties.

<b>Period</b>	<b>Governing Manual</b>	<b>Monitoring Entity</b>	<b>Status</b>
January – July 2021	FAS Manual 1.0	IEMOP	Not subject to sanction
July – December 2021	FAS Manual 2.0	PEMC	Not subject to sanction (transition period)
January – December 2022 and onwards	FAS Manual 2.1 (with provisions of Urgent Amendments)	PEMC	Subject to sanction

The application of penalties and sanctions is pro-rated depending on the length of participation in WESM within the monitoring year.

#### **ii. Penalty Imposition**

The Annual FAS Report will be the final basis for the sanctions or penalty. Detailed procedures on the sanctions and penalties were included in the FAS Manual 2.1 to provide guidelines to the Trading Participants.

For the covered period, there were MDGUs with penalties imposed based on the cumulative annual results of MAPE and PERC95. The penalty impositions were detailed in the Annual FAS Report issued by ECO.

---

<sup>16</sup> Section 4.6.2 (b) of FAS Manual 2.1

## **6.0 RECOMMENDATION**

Per their mandate and in accordance with the objectives of the urgent amendments, the ECO is implementing the urgent amendments to ensure that the enforcement proceedings and actions are supported by adequate and fair basis and has reference in the WESM Rules and FAS Manual.

The Market Assessment Group recommends the following:

- RCC to recommend to PEM Board the extension of effectivity of the urgent amendment, and
- ECO to continue its implementation of the urgent amendments depending on the PEM Board's decision and approval on the RCC's recommendation.

**Proposed Urgent Amendments to the WESM Rules**

Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
<b>Section 3.5.5 Generation Offers and Data</b>	3.5.5.10	<i>A Trading Participant who fails to meet the requisite forecast accuracy standards set out in accordance with Clause 3.5.5.8 in respect of projected outputs for a must dispatch generating unit submitted under Clause 3.5.5.5 may be liable for sanctions imposed under Clause 7.2.</i>	<i>A Trading Participant who fails to meet the requisite forecast accuracy standards set out in accordance with Clause 3.5.5.8 <b>based on an annual assessment and results</b> in respect of projected outputs for a must dispatch generating unit submitted under Clause 3.5.5.5 may be liable for sanctions imposed under Clause 7.2.</i>	For clarity. ECO monitors monthly and annually. Only the failed <b>annual</b> rating shall be subject to sanctions.  Deleted part – redundant; it is already stated in the referred clause 3.5.5.8	Y	Implemented
	3.5.5.11	<i>The Enforcement and Compliance Office shall report to the PEM Board and the DOE the monthly and annual compliance of each must dispatch generating unit to the forecast accuracy standards with respect to its projected outputs.</i>	<i>The Enforcement and Compliance Office shall report to the PEM Board, <b>the Compliance Committee</b>, and the DOE the monthly and annual compliance of each must dispatch generating unit to the forecast accuracy standards with respect to its projected outputs.</i>	To include CC to whom ECO reports as part of the Committee's oversight functions.	Y	Implemented  Annual FAS Report covering the billing months January to December 2022 was reported to PEM Board on 31 March 2023.  Final Monthly FAS Report for the billing months January 2023 and February 2023, were issued

**Proposed Urgent Amendments to the WESM Rules**

Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
						on 07 April 2023 and 07 May 2023.
	3.5.5.12	The <i>Market Operator</i> shall report to the <i>PEM Board</i> and the <i>DOE</i> the monthly and annual compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards with respect to its <i>projected outputs</i> .	<del>The <i>Market Operator</i> shall report to the <i>PEM Board</i> and the <i>DOE</i> the monthly and annual compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards with respect to its <i>projected outputs</i>.</del>	Redundant provision. Under Clause 3.5.5.11, ECO shall perform this task.	Y	Implemented

**Proposed Urgent Amendments to the WESM Rules**

Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
<b>Section 7.2 Enforcement</b>	7.2.10	<p>All <i>WESM Member</i> shall be exempted from an investigation and imposition of sanctions for probable <i>breach</i> that are committed –</p> <p>(a) Within the first one (1) month of membership in the <i>WESM</i> by said <i>WESM Member</i>; or</p> <p>(b) Within the first one (1) month of the issuance of a new provision of the <i>WESM Rules</i> or a new <i>Market Manual</i>, or an amendment thereto, with respect to such new provisions, <i>Market Manual</i> or amendment, if non-compliance with the same amounts to a <i>breach</i>.</p> <p>xxx</p>	<p><u>Unless otherwise provided in the relevant Market Manual, All <i>WESM Members</i></u> shall be exempted from an investigation and imposition of sanctions for probable <i>breach</i> that are committed –</p> <p>x x x</p>	<p>To allow flexibility in setting a different exemption period when the Market Manual provides for a more practicable provision or consideration.</p> <p>Note: Under the WESM Rules, one-month exemption is provided. In the proposed FAS Manual, an exemption is provided if the plant is in operation for 3 months or less prior to the end of the covered monitoring year. (See related proposal, Section 4.6.2 [b] of the FAS Manual)</p>	Y	<p>Implemented</p> <p>Basis of Section 4.6.2 of the FAS Manual Issue 2.1</p>

**Proposed Urgent Amendments to the WESM Rules**

Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
<b>Chapter 11 GLOSSARY</b>		<b>Must Dispatch Generating Unit.</b> <i>A Generating Unit or Generating System so designated by the Market Operator under Clause 2.3.1.5 and is provided Must Dispatch.</i>	<b>Must Dispatch Generating Unit.</b> <i>A Generating Unit or Generating System <del>so designated by the Market Operator</del> <u>certified by the DOE as must dispatch generating unit</u> under Clause 2.3.1.5 and is <del>provided Must Dispatch</del> <u>registered as such in the WESM by the Market Operator.</u></i>	Use of more appropriate terms.  Section 2.3.1.5 speaks of certification by the DOE rather than designation by the Market Operator.		Reference definition of <i>Must Dispatch Generating Unit</i> in the implementation of FAS monitoring.

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
SECTION 1 – INTRODUCTION  1.1. Background	1.1.3	[NEW]	<u><i>A Generation Company that has secured a Final Certificate of Approval to Connect for completing the conduct of test and commissioning but with pending issuance of Certificate of Compliance from the ERC for its must dispatch generating unit shall likewise comply with the forecast accuracy standards in respect of its projected outputs.</i></u> <sup>17</sup>	To reflect the provisions of DOE DC 2022-05-0015 as regards MDGUs’ obligation to comply with forecast accuracy standards	Y	Implemented.  Being monitored by ECO
	1.1.4	[NEW]	<u><i>A Generation Company that has an expansion unit shall comply with the forecast accuracy standards following the parameters set forth in Section 4.2.8 of this Manual.</i></u>	To consider the monitoring of a MDGU with expansion unit, i.e., facility with same plant substation and revenue meter; and to comply with the requirements under DOE DC 2022-05-0015	Y	Implemented.  Being monitored by ECO

<sup>17</sup> Section 4.4.5 of the DOE DC2022-05-0015 “Supplementing Department Circular No. DC2021-06-0013 on the Framework Governing Test and Commissioning of Generation Facilities for Ensuring Readiness to Deliver Energy to the Grid or Distribution Network” Published in June 2022

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
				The definition of expansion unit is added to the Glossary (Section 2.1 of the Manual)		
	1.1.3	<i>A Trading Participant who fails to meet the requisite forecast accuracy standards in respect of <b>projected outputs</b> for a <b>must dispatch generating unit</b> may be liable for sanctions imposed under Clause 7.2 of the <b>WESM Rules</b>.</i>	<i>A Trading Participant <b>referred to in Sections 1.1.2, 1.1.3, and 1.1.4 hereof, who which</b> fails to meet the requisite forecast accuracy standards in respect of <b>projected outputs</b> for a <b>must dispatch generating unit</b> may be liable for sanctions imposed under Clause 7.2 of the <b>WESM Rules and the WESM Penalty Manual</b>.</i>	<ul style="list-style-type: none"> <li>Renumbered to <b>1.1.5</b> with modification</li> <li>For clarity. MDGUs with FCATC are already liable for sanctions in case of violations / breach of FAS.</li> </ul>	Y	Implemented.
	1.1.4	<i>Moreover, the <b>Enforcement and Compliance Office</b> is required by the <b>WESM Rules</b> report to the <b>PEM Board</b> and the <b>DOE</b> the annual compliance of each <b>must dispatch generating unit</b> to the forecast accuracy standards with respect to its <b>projected outputs</b>.</i>	<i>Moreover, the <b>Enforcement and Compliance Office</b> is required by the <b>WESM Rules</b> to report to the <b>PEM Board, the Compliance Committee,</b> and the <b>DOE</b> the annual compliance of each <b>must dispatch generating unit</b> to the forecast accuracy standards with respect to its <b>projected outputs</b>.</i>	<ul style="list-style-type: none"> <li>Renumbered to <b>1.1.6</b></li> <li>To include CC's oversight functions.</li> <li>There is also a corresponding change in</li> </ul>	Y	Implemented  The Annual FAS Report covering the billing periods January to December 2022 was reported to the Compliance Committee and submitted to the PEM

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
				WESM Rules Clause 3.5.5.11		Board and DOE on 31 March 2023.
<b>SECTION 2 DEFINITIONS, REFERENCES, AND INTERPRETATION</b>  2.1 Definitions	2.1.2	Glossary				
	<u>a)</u>	[NEW]	<u>a) Expansion Unit. It shall refer to the expanded capacity of a power plant or facility or that built in phases and is designed to have the same plant substation and revenue meter as the existing capacity unit.</u>	To clarify the term used in the Manual.  To cover the expanded unit in the assessment of the FAS compliance of the MDGUs.		Refer to Section 4.2.8 of this Manual
	<u>b)</u>	[NEW]	<u>b) Forecast Accuracy Standards Report. Reports which are prepared and issued by the Enforcement and Compliance Office, as prescribed in Section 4.4 of this Manual.</u>	For reference to the type/s of report that ECO needs to prepare/issue in compliance with FAS Manual.		Refer to Sections 4.4.4, 4.4.5 and 4.4.6 for the FAS Reports
		<b>a) Forecast percentage error.</b> Error (in %) of the <i>projected output</i> submitted by	<del>a)</del> <b>c) Forecast percentage error.</b> Error (in %) of the <i>projected output</i> submitted by a <i>must dispatch</i>	Renumbered to <b>c</b>		N/A

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
		<i>a must dispatch generating unit with respect to its maximum metered quantity over a billing period as dependable capacity and calculated in accordance with Section 4.2.3.</i>	<i>generating unit with respect to its maximum metered quantity over a billing period as dependable capacity and calculated in accordance with Section 4.2.3.</i>			
		<b>b) Initial loading.</b> Loading (in MW) for the beginning of the <i>dispatch interval</i> assumed in, or estimated by, the dispatch optimization performed prior to the beginning of that <i>dispatch interval</i> .	<del>b)-d) Initial loading. Loading (in MW) for the beginning of the dispatch interval assumed in, or estimated by, the dispatch optimization performed prior to the beginning of that dispatch interval.</del> <u>It shall refer to the previous dispatch schedule of the must dispatch generating unit. For example, the initial loading for 0105H shall be the dispatch schedule for 0100H.</u>	To reflect the nearest reference to the load for the beginning of the dispatch interval – which is more appropriate for MDGUs.  Note: the IL as originally defined is more appropriate for use by the conventional plants/ facilities.  Renumbered to <b>d</b>		Refer to Section 4.2.4 for the use of Initial Loading in the formula
		<b>c) MAPE.</b> Abbreviation of <i>mean absolute percentage error</i> .	<del>e)-e) MAPE.</del> x x x	Renumbered to <b>e</b>		N/A

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
		<b>d) Mean absolute percentage error.</b> Mean of the <i>forecast percentage errors of a must dispatch generating unit</i> over a certain period calculated in accordance with Section 4.2.1.	<del>d-f</del> <b>f) Mean absolute percentage error.</b> x x x	Renumbered to <b>f</b>		N/A
		<b>e) Must dispatch generating unit.</b> A <i>generating unit</i> so designated by the <i>Market Operator</i> under clause 2.3.1.5 of the <i>WESM Rules</i> and is provided <i>Must Dispatch</i> . For brevity and when the context applies, this also refers to a <i>generation company</i> that operates a <i>must dispatch generating unit</i> in this <i>Market Manual</i> .	<del>e-g</del> <b>g) Must dispatch generating unit.</b> A <i>generating unit</i> so designated by the <i>Market Operator</i> <u>certified by the DOE as must dispatch</u> under clause 2.3.1.5 of the <i>WESM Rules</i> and is provided <u>Must Dispatch registered as such in the WESM by the Market Operator.</u> For brevity and wWhen the context applies, this also refers to a <i>generation company</i> that operates a <i>must dispatch generating unit</i> in this <i>Market Manual</i> .	For clarity. Section 2.3.1.5 speaks of certification by the DOE rather than designation by the Market Operator.  Renumbered to <b>g</b>		Reference definition of <i>Must Dispatch Generating Unit</i> in the implementation of FAS monitoring.
		<b>f) Perc95.</b> Abbreviation of <i>percentile 95 of the forecasting error</i> .	<del>f-h</del> <b>h) Perc95.</b> Abbreviation of <del>p</del> <i>Percentile 95 of the forecasting error</i> .	Clerical correction.  Renumbered to <b>h</b>		N/A

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
		<b>g) Percentile 95 of the forecasting error.</b> The value (in %) not exceeding 95% of the <i>forecast percentage errors</i> of the <i>must dispatch generating unit</i> during a certain period (see Section 6, Appendix A of this Manual).	<del>g)</del> <b><u>i)</u> Percentile 95 of the forecasting error.</b> x x x	Renumbered to <b><u>i</u></b>		N/A
		<b>h) Projected quantity.</b> Estimated <i>generation</i> of a <i>must dispatch generating unit</i> over a <i>dispatch interval</i> based on its submitted <i>projected output</i> assuming linear ramping calculated in accordance with Section 4.2.4.	<del>h)</del> <b><u>j)</u> Projected quantity.</b> x x x	Renumbered to <b><u>j</u></b>		N/A
		<b>i) Transition Period.</b> The period specified by the <i>DOE</i> wherein the provisions under Section 4.5 shall apply.	<del>i)</del> <b><u>k)</u> Transition Period.</b> The period specified by the <i>DOE</i> wherein the provisions under 4.5 shall apply <b><u>referred to in Section 4.5 of this Manual.</u></b>	Provide for the specific duration of transition for clarity.  Section 4.5 – 6 months from implementation of the EWDO.	Y	Transition Period is implemented.  Refer to Section 4.5 of this Manual

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
<b>SECTION 3 – RESPONSIBILITIES</b>  <b>3.1 Enforcement and Compliance Office</b>	3.1.1	The <i>Enforcement and Compliance Office</i> shall evaluate annually the compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards in this <i>Market Manual</i>	<p>The <i>Enforcement and Compliance Office</i> shall <u>assess,</u> evaluate <del>annually</del> <u>and issue</u> the <u>cumulative results of MAPE and PERC95 to</u> compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards in this <i>Market Manual</i>. <u>on a monthly and annual basis in accordance with the procedures set forth in Section 4.4 hereof.</u></p> <p><u>The <i>Enforcement and Compliance Office</i> shall, for this purpose, establish a detailed process or procedure of compliance monitoring and assessment and prescribe a reply format or template that may be accomplished by the <i>Generation Company</i> as part of the monitoring process.</u></p>	<p>For consistency with Section 4.4.2 (renumbered to 4.4.5) of this Manual -requiring <u>monthly</u> reporting; and Section 4.4.1 (renumbered to 4.4.6) -requiring <u>annual</u> reporting</p> <p>2<sup>nd</sup> paragraph – to integrate current process as would allow ECO to efficiently gather adequate data, information, or evidence from the trading participants.</p>	Y	<p>Implemented.</p> <p>Developed the Forecast Accuracy Standards Monitoring Process and published other related WESM Compliance Bulletin.</p>

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
	3.1.2	The <i>Enforcement and Compliance Office</i> shall report to the <i>PEM Board</i> and the <i>DOE</i> its evaluation on the annual compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards with respect to each <i>must dispatch generating unit's</i> projected outputs	The <i>Enforcement and Compliance Office</i> shall report to the <i>PEM Board</i> , <u>the <b>Compliance Committee</b></u> , and the <i>DOE</i> its evaluation on the annual compliance of each <i>must dispatch generating unit</i> to the forecast accuracy standards <u>as set forth in Section 4.4.6 of this Manual</u> , <del>with respect to each <i>must dispatch generating unit's</i> projected outputs</del>	Included Compliance Committee in view of its oversight functions.  Reference to Section 4.4.6, as renumbered (previously Section 4.4.1)	Y	Implemented  The Annual FAS Report covering the billing periods January to December 2022 was reported to the Compliance Committee and submitted to the PEM Board and DOE on 31 March 2023.
<b>3.4 Generation Companies</b>	<u>3.4.3</u>	[NEW]	<u>Generation companies shall coordinate with the Enforcement and Compliance Office for matters, data, or information necessary to establish, validate, and verify the incidents or circumstances referred to in Sections 4.3, and such other matters, data, or information relative to the calculation of MAPE and PERC95.</u>	To integrate the current process; to ensure that all the data/information used in the calculation of FAS results are verified/validated. This requires active participation of the trading participants.  Due process requirement.	Y	Implemented

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
3.5 Market Operator	<a href="#">3.5.2</a>	[NEW]	<u>The Market Operator shall provide to the Enforcement and Compliance Office all the market data and information necessary for the calculation of MAPE and PERC95 and for verification or validation of data, when necessary.</u>	To integrate the current practice. All market data used in the calculation of FAS by ECO are obtained from IEMOP.	Y	Implemented  This provision is further amended in the corresponding General Amendment to include the SO-validated individual and aggregated forecast data in the information to be provided by the MO to ECO for validation purposes.
SECTION 4 – FORECAST ACCURACY STANDARDS AND PROCEDURES			<u>SECTION 4 – FORECAST ACCURACY STANDARDS, AND PROCEDURES, AND SANCTIONS</u>	To align the title with the additional proposed subsection on sanctions (Section 4.6)	Y	Implemented

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
<b>4.1 Standards</b>	4.1.2	The <i>MAPE</i> and <i>Perc95</i> of each <i>must dispatch generating unit</i> shall be calculated over the period starting on the 26 <sup>th</sup> of December of a year and ending on the 25 <sup>th</sup> of December of the succeeding year.	The <i>MAPE</i> and <i>Perc95</i> of each <i>must dispatch generating unit</i> shall be calculated <u>every billing period in cumulative results and shall be reported to each Generation Company within the timeline prescribed in Section 4.4 hereof. The annual cumulative results covering over the period starting on the 26<sup>th</sup> of December of a year and ending on the 25<sup>th</sup> of December of the succeeding year shall be determined with finality by the Enforcement and Compliance Office within the period prescribed in Section 4.4.6 of this Manual</u>	To integrate the current procedure (due process requirement):  Issuance of Monthly FASR – to afford the Generation Companies the opportunity to see the results, provide relevant data as basis for recalculation, if any, and be able to catch up by improving its performance in the succeeding months.	Y	Implemented

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
	4.1.3	Subject to Section 4.5 of this <i>Market Manual</i> , <i>must dispatch generating units</i> who fail to meet the requisite forecast accuracy standards set out in Section 4.1.1 of this <i>Market Manual</i> may be liable for sanctions imposed under Clause 7.2 of the <i>WESM Rules</i> , and in accordance with the <i>WESM Penalty Manual</i> .	Subject to Sections <u>4.5 and 4.6</u> of this <i>Market Manual</i> , <u>the <i>Generation Companies of the must dispatch generating units</i> who <i>which</i></u> fail to meet the requisite forecast accuracy standards <u>based on the annual <i>Forecast Accuracy Standards Report</i> shall be considered in breach of set out in</u> Section 4.1.1 of this <i>Market Manual</i> <u>and</u> may be liable for sanctions imposed under Clause 7.2 of the <i>WESM Rules</i> , and in accordance with the <i>WESM Penalty Manual</i> .	For clarity – only the breach based on annual (final) FAS results shall be subject to sanctions per WESM Penalty Manual.	Y	Implemented
<b>4.2 Calculations</b>	4.2.6	A one hundred (100) percent FPE shall be imposed to a must dispatch generating unit for non-submission of projected output.	A one hundred (100) percent FPE shall be imposed to a must dispatch generating unit for non-submission of projected output. <u>The non-submission of projected output referred to in this section shall exclude submission of zero (0) MW nomination or cancellation of nomination based on the zero projection or load profile of the must dispatch generating unit.</u>	To distinguish active nomination of zero (0) MW or cancellation of nomination due to unavailability of the plant, from the non-submission at all.	Y	Implemented

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
	4.2.8	[NEW]	<p><u>For generating plants with expansion unit that is either on test and commissioning or in actual operation, as may be allowed by the rules, but is awaiting the issuance of the Certificate of Compliance or the Provisional Authority to Operate, the following shall apply:</u></p> <p><u>a) A zero (0) FPE shall be imposed if the projected quantity is less than the combined metered quantity.</u></p> <p><u>b) A one hundred (100) FPE shall be imposed if the projected quantity is greater than the combined metered quantity.</u></p> <p><u>For this purpose, the combined metered quantity shall refer to the sum of the metered quantity</u></p>	<p>To address changes and possible constraints in the nominations, meter readings of the existing unit, and additional unit while the latter is on test and commissioning stage or before the commercial operation registration.</p> <p>Note: The IEMOP cannot update the Pmax of the generating facility (original capacity plus expanded capacity) in the WESM registration</p>	Y	<p>Implemented</p> <p>Already incorporated in the calculation of plants with expansion unit that is proposed by a Market Participant to be added as Appendix in lieu of the enumerations in the PEM Board-approved Urgent Amendments. Said Appendix is based on the Annex C of WESM Compliance Bulletin 16.1.<sup>18</sup></p>

<sup>18</sup> <https://www.wesm.ph/market-governance/enforcement-and-compliance/eco-advisories/wesm-compliance-bulletin>

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
			<p><u>of the existing capacity unit and that of the expansion unit.</u></p> <p><u>This provision shall apply until the registered <i>Pmax</i> of the power plant or facility is updated in the WESM to include both the capacity of the existing and expansion unit.</u></p>	<p>unless the same is supported by COC/PAO even if it had been issued with FCATC already. The generation company could not yet nominate its full/combined capacity in the MMS-MPI. Meanwhile, the meter reading already reflects the total capacity. In such a situation, the generation company would be adversely affected by the results of the FPE if it will be based on the normal computation.</p> <p>This section intends to address the</p>		

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
<b>4.3 Exclusions</b>			<b>4.3 Exclusions <u>and Other Basis for Recalculation</u></b>	Align the title with the additional provisions under this Sub-section	Y	Implemented
	<b><u>4.3.2</u></b>	[NEW]	<b><u>Any variance in the market data used in the calculation of MAPE and/or PERC95 that may be discovered during the monitoring and assessment must be properly addressed, validated, and verified within the prescribed timeline. The Generation Company shall provide adequate supporting documents to substantiate any claim of data variance. Only those data that have been proven and verified to be inaccurate, inconsistent, or erroneous shall be considered in the recalculation of the results.</u></b>	To address the recurring problem on data inconsistency, non-updating, or variance.  Due process requirement.	Y	Implemented  Data variance is already considered as other basis for recalculation.
<b>4.4. Monitoring, Reporting, and Review</b>	<b><u>4.4.1</u></b>	[NEW]	<b><u>The Enforcement and Compliance Office shall monitor the compliance of the Generation Company of each must dispatch generating unit, calculate the MAPE and PERC95 and issue the Preliminary Forecast Accuracy</u></b>	To provide general provision on monitoring and issuance of preliminary results to the trading participants.	Y	Implemented

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
			<u>Standards Reports including the data used in the calculation within 30 calendar days from the end of the calendar month of the covered monitoring period. For instance, the Preliminary Forecast Accuracy Standards Report for September billing period shall be issued not later than 30 October.</u>			
	<u>4.4.2</u>	[NEW]	<u>The Generation Company shall provide a reply or confirmation of the MAPE and PERC95 results, as the case may be, to the Enforcement and Compliance Office within fifteen (15) calendar days from receipt of the Preliminary Forecast Accuracy Standards Report. If any of the circumstances fall within the exclusions and data variance under Section 4.3 of this Market Manual, the Generation Company shall likewise provide and submit the documents or proof thereof as basis for recalculation of the results.</u>	To afford the participants the opportunity to check the results and provide adequate basis for recalculation of the results, as may be allowed under Section 4.3 of the Manual  Due process requirement	Y	Implemented

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
	<a href="#">4.4.3</a>	[NEW]	<u>The Enforcement and Compliance Office shall assess, validate, and verify the responses and documents submitted by the Generation Company. It may also consult the Market Operator, the System Operator, or the Metering Service Provider, as necessary, to ascertain the truthfulness of the claim or allegations of the Generation Company. The Enforcement and Compliance Office shall perform the recalculation, as may be appropriate.</u>	To ensure that there is adequate basis for recalculation.  Due process requirement	Y	Implemented
	<a href="#">4.4.4</a>	[NEW]	<u>The Enforcement and Compliance Office shall issue the Final Forecast Accuracy Standards Report within seventy (70) days from the end of the calendar month of the covered monitoring period regardless of whether a reply or confirmation is submitted by the concerned Generation Company or whether a recalculation of the results was</u>	To issue the final monthly results after recalculation. The ECO is mandated to issue the Final monthly reports – with or without change from preliminary results as official reference for the monthly	Y	Implemented  Latest monthly Final FASR report for February billing period was issued on 04 May 2023 which is within the timeline.

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
			<u>performed for a particular must dispatch generating unit.</u>	performance or compliance of the MDGU.		
	4.4.1	<i>The Enforcement and Compliance Office shall report to the PEM Board and the DOE the annual compliance of each must dispatch generating unit to the forecast accuracy standards with respect to its projected outputs within two (2) calendar months after the end of the period specified in Section 4.1.2.</i>	<u>4.4.5</u> <i>The Enforcement and Compliance Office shall submit a consolidated monthly report to the PEM Board, the Compliance Committee, and the DOE containing the status of the compliance of each must dispatch generating unit to the forecast accuracy standards as of the most recent Billing Period with a final statement on a monthly basis based on the Final Forecast Accuracy Standards Report within the same timeline provided in Section 4.4.4 of this Manual.</i>	<ul style="list-style-type: none"> <li>• Re-arranged for coherence. Previously Section 4.4.2 with modification</li> <li>• Renumbered to <b>4.4.5</b></li> <li>• Included Compliance Committee in view of its oversight functions.</li> </ul>	Y	Implemented  The monthly FAS Report is being reported/submitted to the PEM Board, DOE, and CC.

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
	4.4.2	The <i>Enforcement and Compliance Office</i> shall report to the <i>PEM Board</i> and the <i>DOE</i> the status of the compliance of each <i>must dispatch generating unit</i> to the <i>forecast accuracy standards</i> as of the most recent <i>Billing Period</i> with a <i>final statement</i> on a monthly basis.	<b>4.4.6</b> The <i>Enforcement and Compliance Office</i> shall <b>likewise submit an annual consolidated report to the <i>PEM Board</i> the <u>Compliance Committee</u>, and the <i>DOE</i> the annual compliance of each <i>must dispatch generating unit</i> to the <i>forecast accuracy standards with respect to its projected outputs within two (2) calendar months after the end of the period specified in Section 4.1.2, on or before 31 March of the year following the covered monitoring period.</i></b>	<ul style="list-style-type: none"> <li>• Re-arranged for coherence. Previously Section 4.4.1 with modification</li> <li>• Renumbered to <b>4.4.6</b></li> <li>• Provide a more definitive period for compliance</li> <li>• Proposed period based on the calculated period to process one whole year of data.</li> <li>• Included Compliance Committee in view of its oversight functions.</li> </ul>	Y	<p>Implemented</p> <p>The Annual FAS Report 2022 was reported/submitted to the PEM Board, DOE, and CC on 31 March 2023.</p>

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
	4.4.3	The <i>Market Operator</i> shall review annually the forecast accuracy standards set in Section 4.1 and shall provide recommendation to the <i>PEM Board</i> and the <i>DOE</i> .	<b>4.4.7</b> The <i>Market Operator or the Enforcement and Compliance Office</i> shall review annually the forecast accuracy standards set in Section 4.1 and shall provide recommendation to the <i>PEM Board</i> and the <i>DOE</i> .	<ul style="list-style-type: none"> <li>Renumbered to <b>4.4.7</b></li> <li>To include ECO being the office in charge of the monitoring of FAS.</li> </ul>	Y	Implemented  As proposed by SO, this provision is further revised in the corresponding General Amendments for the SO to be consulted in the review of FAS.
<b>4.5 Transition Period</b>	4.5.1	A <i>transition period</i> covering the period specified by the <i>DOE</i> shall be implemented. The sanction on the non-compliance with the forecast accuracy standards shall be implemented upon the commercial operation of the enhanced <i>WESM</i> design and operations.	A <i>transition period shall be six (6) months covering the period specified by the DOE shall be implemented. The sanction on the non-compliance with the forecast accuracy standards shall be implemented upon from</i> the commercial operation of the enhanced <i>WESM</i> design and operations <b>unless extended by the DOE through appropriate issuance.</b>	<p>To reflect the current practice (as consulted with DOE – DOE will no longer issue formal issuance re: lifting of transition period; and the monitoring officially starts in January 2022 billing period).</p> <p>Given that the annual FAS rating is reckoned from 26 December of the</p>	Y	Implemented

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
				<p>year until 25 December of the succeeding year, the annual FAS rating could NOT be computed for 2021 as the EWDO commenced only on 26 June 2021 (or short of 6 months for annual rating).</p> <p>The annual FAS rating (Jan to Dec billing period) could be computed beginning January 2022</p>		

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
	4.5.3	Before the end of the <i>transition period</i> , the <i>Market Operator</i> shall submit to the <i>DOE</i> and other concerned government agencies a report on the compliance of <i>must dispatch generating units</i> to the forecast accuracy standards, and it shall inform the <i>must dispatch generating units</i> on their performance with respect to the forecast accuracy standards.	Before the end of the <i>transition period</i> , the <i>Market Operator Enforcement and Compliance Office</i> shall submit to the <i>DOE</i> and other concerned government agencies a report on the compliance of <i>must dispatch generating units</i> to the forecast accuracy standards, and it shall inform the <i>must dispatch generating units</i> on their performance with respect to the forecast accuracy standards.	For consistency with Responsibilities of ECO under Section 3.1 of this Manual.	Y	Implemented
<b>4.6 PENALTIES AND SANCTIONS</b>		[NEW]	New sub-section	For clarity of the application of the penalty based on possible sets of circumstances.	Y	Implemented

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
	4.6.1	[NEW]	<u>One breach is counted for each category of forecast accuracy standard that was not complied with based on the Annual Forecast Accuracy Standards Report. The breach of MAPE and PERC95 shall be counted as separate breach even if they occur on the same period subject to penalty under Clause 7.2 of the WESM Rules and the relevant provisions of WESM Penalty Manual.</u>	For clarity: separate finding for MAPE and PERC95; and separate penalty imposition; consistent with the provisions of the WESM Penalty Manual.	Y	Implemented
	4.6.2	[NEW]	<u>The Generation Company with must dispatch generating unit that is in operation for less than a year and is found in breach of MAPE or PERC95, shall be:</u>  <u>a) imposed a penalty in proportion to the number of months in operation during the covered monitoring year. For instance, the plant commenced operation on 26 March, the financial penalty to be imposed</u>	To consider situation where the duration of commercial operation is less than one year.  For (a): duration of commercial operation within the year is 9 months and above. Proportionate penalty.	Y	Implemented  Implemented and reflected in the Annual FAS Report 2022

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
			<p><u>shall be in proportion to the nine (9) billing months over the twelve (12) month-period.</u></p> <p><u>b) exempted from liability, if it commences operation within three (3) months prior to the end of the covered monitoring year.</u></p> <p><u>A must dispatch generating unit shall be considered in operation, for purposes of this Section, upon commencement of its operation or participation in the WESM either by virtue of the Final Certificate of Approval to Connect or the commercial operation registration in the WESM, whichever is applicable.</u></p>	<p>For (b): duration is less 3 months or less. MDGUs which commenced operation in October, November, and December billing period – exempted. This is in consideration of the adjustments during the initial period of operation.</p> <p>Reckoning of operation: Issuance of FCATC (if plant opts to operate already); or commercial operation registration, as the case may be.</p>		
<b>SECTION 5 – AMENDMENT,</b>						

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
<b>PUBLICATION, AND EFFECTIVITY</b>						
5.3 Effectivity	5.3.2	[NEW]	<u>The amendments made herein and approved pursuant to the Procedures for Changes to the WESM Rules, Retail Rules and Market Manuals shall have a retroactive effect from the beginning of the year that the said amendments are approved, unless the application thereof becomes inequitable and impracticable under the circumstances. For avoidance of doubt, the amended provisions that are given retroactive effect shall be indicated in the PEM Board resolution and/or DOE issuance approving or promulgating them.</u>	<p>The final FAS results are cumulative in nature and are determined on annual basis. It would be impractical to have different sets of the governing rule in different months in one year. Thus, to always ensure uniformity and practicality in the application of the rules/provisions, the same should be applied for the whole year.</p> <p>For instance, the amendment is approved in July 2023, it shall be applied from</p>	Y	Implemented

Proposed Urgent Amendments to the Procedures for the Monitoring of Forecast Accuracy Standards for Must Dispatch Generating Units (FAS Manual)						
Title	Section	Provision	Proposed Amendment	Rationale	IMPLEMENTATION	
					Y/N	REMARKS
				January to December 2023 billing period.  <i>“unless the application thereof becomes inequitable and impracticable under the circumstances” – to consider the prospective application of the amendment in the event that it would become unjust or affect the vested rights of the generation company (e.g. stricter rule).</i>		

# fin\_RCC-RESO-23-05 (FAS - General)

Final Audit Report

2023-05-25

Created:	2023-05-19
By:	Dianne De Guzman (dldeguzman@wesm.ph)
Status:	Signed
Transaction ID:	CBJCHBCAABAACVqZfuWukX_OtdVd5QXeJF4aIK7VviQO

## "fin\_RCC-RESO-23-05 (FAS - General)" History

-  Document created by Dianne De Guzman (dldeguzman@wesm.ph)  
2023-05-19 - 8:34:45 AM GMT
-  Document emailed to jgm@fmh.ph for signature  
2023-05-19 - 8:42:41 AM GMT
-  Document emailed to bodeck.fernando@gmail.com for signature  
2023-05-19 - 8:42:41 AM GMT
-  Document emailed to rapanosan@gmail.com for signature  
2023-05-19 - 8:42:41 AM GMT
-  Document emailed to jordan.orillaza@eee.upd.edu.ph for signature  
2023-05-19 - 8:42:42 AM GMT
-  Document emailed to cclaudio@mei.com.ph for signature  
2023-05-19 - 8:42:42 AM GMT
-  Document emailed to cherry.javier@aboitiz.com for signature  
2023-05-19 - 8:42:42 AM GMT
-  Document emailed to mark.habana@vivant.com.ph for signature  
2023-05-19 - 8:42:42 AM GMT
-  Document emailed to dbanzon@mppcl.sanmiguel.com.ph for signature  
2023-05-19 - 8:42:43 AM GMT
-  Document emailed to vcfortich@cebeco3.com.ph for signature  
2023-05-19 - 8:42:43 AM GMT
-  Document emailed to rsmorales@meralco.com.ph for signature  
2023-05-19 - 8:42:43 AM GMT

 Document emailed to nelsondelacruz\_neeco2@yahoo.com for signature

2023-05-19 - 8:42:43 AM GMT

 Document emailed to rsa@angeleselectric.com.ph for signature

2023-05-19 - 8:42:44 AM GMT

 Document emailed to gecanales@firstgen.com.ph for signature

2023-05-19 - 8:42:44 AM GMT

 Document emailed to jp.grayda@iemop.ph for signature

2023-05-19 - 8:42:44 AM GMT

 Document emailed to daortiz@ngcp.ph for signature

2023-05-19 - 8:42:44 AM GMT

 Email viewed by rapanosan@gmail.com

2023-05-19 - 8:43:00 AM GMT

 Signer rapanosan@gmail.com entered name at signing as Rachel Angela P. Anosan

2023-05-19 - 8:43:53 AM GMT

 Email viewed by daortiz@ngcp.ph

2023-05-19 - 8:43:53 AM GMT

 Document e-signed by Rachel Angela P. Anosan (rapanosan@gmail.com)

Signature Date: 2023-05-19 - 8:43:55 AM GMT - Time Source: server

 Email viewed by bodeck.fernando@gmail.com

2023-05-19 - 8:45:17 AM GMT

 Email viewed by jp.grayda@iemop.ph

2023-05-19 - 8:47:43 AM GMT

 Signer bodeck.fernando@gmail.com entered name at signing as Jose Roderick Fernando

2023-05-19 - 8:48:05 AM GMT

 Signer daortiz@ngcp.ph entered name at signing as Darryl Lon A. Ortiz

2023-05-19 - 8:48:06 AM GMT

 Document e-signed by Jose Roderick Fernando (bodeck.fernando@gmail.com)

Signature Date: 2023-05-19 - 8:48:07 AM GMT - Time Source: server

 Email viewed by jordan.orillaza@eee.upd.edu.ph

2023-05-19 - 8:57:15 AM GMT

 Signer jordan.orillaza@eee.upd.edu.ph entered name at signing as Jordan Rel C. Orillaza

2023-05-19 - 8:59:16 AM GMT

 Document e-signed by Jordan Rel C. Orillaza (jordan.orillaza@eee.upd.edu.ph)

Signature Date: 2023-05-19 - 8:59:18 AM GMT - Time Source: server

 Signer jp.grayda@iemop.ph entered name at signing as John Paul Grayda

2023-05-19 - 10:11:53 AM GMT

 Document e-signed by John Paul Grayda (jp.grayda@iemop.ph)

Signature Date: 2023-05-19 - 10:11:55 AM GMT - Time Source: server

 Email viewed by jgm@fmh.ph

2023-05-19 - 6:37:20 PM GMT

 Signer jgm@fmh.ph entered name at signing as JG Morillos

2023-05-19 - 6:38:30 PM GMT

 Document e-signed by JG Morillos (jgm@fmh.ph)

Signature Date: 2023-05-19 - 6:38:32 PM GMT - Time Source: server

 Email viewed by cclaudio@mei.com.ph

2023-05-20 - 0:39:16 AM GMT

 Signer cclaudio@mei.com.ph entered name at signing as Carlito C. Claudio

2023-05-20 - 0:41:06 AM GMT

 Document e-signed by Carlito C. Claudio (cclaudio@mei.com.ph)

Signature Date: 2023-05-20 - 0:41:08 AM GMT - Time Source: server

 Email viewed by rsa@angeleselectric.com.ph

2023-05-21 - 0:53:28 AM GMT

 Signer rsa@angeleselectric.com.ph entered name at signing as Russel S. Alabado

2023-05-21 - 0:56:16 AM GMT

 Document e-signed by Russel S. Alabado (rsa@angeleselectric.com.ph)

Signature Date: 2023-05-21 - 0:56:18 AM GMT - Time Source: server

 Email viewed by rsmorales@meralco.com.ph

2023-05-21 - 11:55:28 PM GMT

 Document e-signed by Darryl Lon A. Ortiz (daortiz@ngcp.ph)

Signature Date: 2023-05-22 - 0:34:04 AM GMT - Time Source: server

 Signer rsmorales@meralco.com.ph entered name at signing as Ryan Morales

2023-05-22 - 0:44:07 AM GMT

 Document e-signed by Ryan Morales (rsmorales@meralco.com.ph)

Signature Date: 2023-05-22 - 0:44:09 AM GMT - Time Source: server

 Email viewed by nelsondelacruz\_neeco2@yahoo.com

2023-05-22 - 8:02:31 AM GMT

 Signer nelsondelacruz\_neeco2@yahoo.com entered name at signing as Nelson M. Dela Cruz

2023-05-22 - 8:03:06 AM GMT

 Document e-signed by Nelson M. Dela Cruz (nelsondelacruz\_neeco2@yahoo.com)

Signature Date: 2023-05-22 - 8:03:08 AM GMT - Time Source: server

 Email viewed by gecanales@firstgen.com.ph

2023-05-23 - 1:54:47 AM GMT

 Signer gecanales@firstgen.com.ph entered name at signing as GIAN KARLA CANALES GUTIERREZ

2023-05-23 - 2:01:28 AM GMT

 Document e-signed by GIAN KARLA CANALES GUTIERREZ (gecanales@firstgen.com.ph)

Signature Date: 2023-05-23 - 2:01:30 AM GMT - Time Source: server

 Email viewed by dbanzon@mppcl.sanmiguel.com.ph

2023-05-23 - 4:59:06 AM GMT

 Signer dbanzon@mppcl.sanmiguel.com.ph entered name at signing as Dixie Anthony Banzon

2023-05-23 - 4:59:53 AM GMT

 Document e-signed by Dixie Anthony Banzon (dbanzon@mppcl.sanmiguel.com.ph)

Signature Date: 2023-05-23 - 4:59:55 AM GMT - Time Source: server

 Email viewed by vcfortich@cebeco3.com.ph

2023-05-23 - 6:27:56 AM GMT

 Signer vcfortich@cebeco3.com.ph entered name at signing as Virgilio Fortich Jr

2023-05-23 - 6:28:39 AM GMT

 Document e-signed by Virgilio Fortich Jr (vcfortich@cebeco3.com.ph)

Signature Date: 2023-05-23 - 6:28:41 AM GMT - Time Source: server

 Email viewed by cherry.javier@aboitiz.com

2023-05-25 - 2:00:53 AM GMT

 Signer cherry.javier@aboitiz.com entered name at signing as Cherry Javier

2023-05-25 - 2:01:12 AM GMT

 Document e-signed by Cherry Javier (cherry.javier@aboitiz.com)

Signature Date: 2023-05-25 - 2:01:14 AM GMT - Time Source: server

 Email viewed by mark.habana@vivant.com.ph

2023-05-25 - 2:51:22 AM GMT

 Signer mark.habana@vivant.com.ph entered name at signing as Mark Habana

2023-05-25 - 2:52:49 AM GMT

 Document e-signed by Mark Habana (mark.habana@vivant.com.ph)

Signature Date: 2023-05-25 - 2:52:51 AM GMT - Time Source: server

 Agreement completed.

2023-05-25 - 2:52:51 AM GMT