

MEETING MINUTES

Subject/Purpose : 206th Rules Change Committee (Regular) Meeting
 Date & Time : 16 December 2022, 9:00 AM to 3:00 PM
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**ATTENDEES**

No.	Name	Designation/Position	Department/Company
1	Jesusito G. Morallos	Member, Independent	RCC
2	Jose Roderick F. Fernando	Member, Independent	RCC
3	Cherry A. Javier	Member, Generation Sector (APC)	RCC
4	Rose Ann O. Alfaro	Member (Alternate), Generation Sector (APC)	RCC
5	Carlito C. Claudio	Member, Generation Sector (MEI/PEI)	RCC
6	Jessie B. Victorio	Member (Alternate), Generation Sector (MEI/PEI)	RCC
7	Dixie Anthony R. Banzon	Member, Generation Sector (MPPCL)	RCC
8	Ryan S. Morales	Member, Distribution Sector (MERALCO)	RCC
9	Virgilio C. Fortich, Jr.	Member, Distribution Sector (CEBECO III)	RCC
10	Ricardo G. Gumalal	Member, Distribution Sector (ILPI)	RCC
11	Nelson M. Dela Cruz	Member, Distribution Sector (NEECO II, Area 1)	RCC
12	Lorreto H. Rivera	Member, Supply Sector (TPEC)	RCC
13	Dennis R. Paragas	Member (Alternate), Supply Sector (TPEC)	RCC
14	Ambrocio R. Rosales	Member, System Operator (NGCP)	RCC
15	Isidro E. Cacho, Jr.	Member, Market Operator (IEMOP)	RCC
16	Karen A. Varquez	RCC Secretariat	PEMC
17	Divine Gayle C. Cruz	RCC Secretariat	PEMC
18	Dianne L. De Guzman	RCC Secretariat	PEMC
19	Kathleen R. Estigoy	RCC Secretariat	PEMC
20	Melanie C. Papa	Observer	DOE
21	Mari Josephine C. Enriquez	Observer	DOE
22	Ma. Hazel M. Gubaton-Lopez	CC/Proponent Secretariat	PEMC
23	Bienvenido C. Mendoza	MSC/Proponent Secretariat	PEMC
24	Katherina B. Evangelista	MSC/Proponent Secretariat	PEMC
25	Joshua Angelo M. Ocampo	MSC/Proponent Secretariat	PEMC
26	Christin Paula E. Delgado	OCGO	PEMC
27	Valeriano C. Barro, Jr.	Proponent	NPC
28	Conrado Sison, Jr.	Proponent	NPC
29	Maricris M. Waldo	Proponent	NPC
30	Maria Teresa L. Serra	Proponent	NPC
31	Ken G. Trinidad	Proponent	NPC
32	Edward I. Olmedo	Proponent	IEMOP
33	Karen Anne H. Siruma	Proponent	IEMOP
34	Lilibeth Grace L. Vetus	Proponent	IEMOP
35	Lex Magtalas	Observer	APC
36	Gian Gutierrez	Observer	FGEN
37	Cynthia R. Encarnacion	Observer	SMCGP

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I. Call to Order	The meeting was called to order at 9:11 AM.
II. Determination of Quorum	12 principal members, and 3 alternate members were present in the meeting.
III. Adoption of Agenda	The proposed agenda was approved, as amended.
IV. Approval of Minutes of Previous Meeting: <ul style="list-style-type: none"> • 200th (Special) Meeting, 01 September • 205th (Regular) Meeting, 18 November 	<p>The Chairperson noted that the draft minutes of the regular meeting was circulated three (3) days before the meeting. The Secretariat also stated that the draft minutes of the special meeting (i.e. caucus) was recently emailed and there was no comment received on the drafts.</p> <p>After a page-by-page review by the body, Mr. Carlito C. Claudio (Generator) moved to approve the minutes of meetings which was duly seconded by Mr. Ricardo G. Gumalal (Distribution). The RCC approved the minutes of the previous meetings and agreed to affix their e-signatures.</p>
V. Matters Arising from Previous Meeting	
5.1. Proposed Amendments to the WESM Rules and WESM Manual on Dispatch Protocol regarding Maximum Available Capacity	<p><u>Presenter:</u> Ms. Dianne L. De Guzman (Secretariat) and Mr. Joshua Angelo M. Ocampo (PEMC)</p> <p><u>Action Requested:</u> For approval to endorse to PEM Board</p> <p><u>Materials:</u> Annex “A” – MAG’s Simulation on MCP With or Without Open Breaker Status</p> <p><u>Proceedings:</u></p> <ul style="list-style-type: none"> • Ms. Dianne D. Guzman (Secretariat) presented the background of the proposal, as follows: <ul style="list-style-type: none"> ○ The Market Surveillance Committee (MSC) and the Compliance Committee (CC) jointly prepared the proposal in accordance with their functions under WESM Rules Clause 1.6 and WESM Rules Clause 1.8, respectively. ○ The proposal aims to: <ul style="list-style-type: none"> i) Have a clearer definition of maximum available capacity; ii) Provide guidance when offering/bidding or revising/updating of offers, which should be equal to the maximum available capacity;

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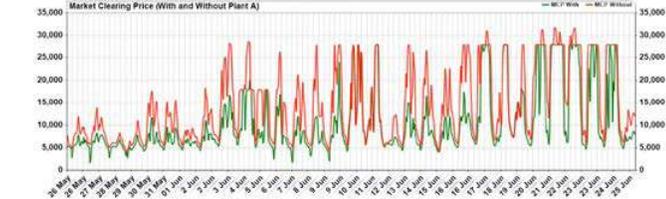


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	<ul style="list-style-type: none"> iii) Require Trading Participants to revise offers/bids if they do not reflect reasonable estimates of the unit's maximum available capacity; and iv) Include other conditions (e.g. circuit breaker status, ramp rates) in revising/updating offers) <ul style="list-style-type: none"> ○ Below are the activities related to the proposal: <ul style="list-style-type: none"> i) 29 Oct 2022 – The PEMC submitted the proposal to the RCC. ii) 18 Nov 2022 – The RCC Secretariat presented the preliminary assessment to the proposal and summary of proposal was presented by the proponent to the RCC. The proponent was requested to present supplemental information that can address the recommendation from the initial assessment to elaborate further the direct impact or consequence of circumvention of the must-offer rule through submitting offers but opening the breakers or submitting offers with very low ramp rates (e.g. impact on scheduling, real-time dispatch). ● Mr. Joshua Angelo M. Ocampo (PEMC) presented the simulation results. Below are the discussion and analysis: <ul style="list-style-type: none"> A) Impact on Operations <ul style="list-style-type: none"> ○ As a preliminary consideration, it was noted that MO considers real-time data in market runs; thus, takes into account the connection/breaker status of a plant even if they have offers in the MMS. It is as such because there is no prohibition in the WESM Rules that the generator cannot offer in the market when the generator is on outage status or have an open breaker. ○ The simulation presented does not include line constraints and power flow during the optimization run, such that it is based on unconstrained solutions from data available to the MAG. It provided that market clearing prices would have been lower by 45.84% had a plant's offer (but with open breaker status) had been included in the market run, as shown below:

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	<p>ON OPERATION (CONNECTION STATUS)</p> <p>MO considers real-time data in market runs; thus, takes into account the connection/breaker status of a plant even if they have offers in the MMS</p>  <p>Based on simulation as above:</p> <ul style="list-style-type: none"> Price with consideration of Plant A's offer would have lowered market clearing prices by 45.84% <p><i>Note: The simulation does not include line constraints and power flow during the optimization run</i></p> <p style="text-align: right;"></p> <p>B) Impact on Governance</p> <ul style="list-style-type: none"> In reference to the images below, while both scenarios are currently allowed by the rules, this can be possibly used to not fully offer or maximize capacities which may defeat the purpose of the Must Offer Rule (MOR). <p>SCENARIO A</p>  <table border="1" data-bbox="722 1407 1299 1480"> <thead> <tr> <th></th> <th>1:00</th> <th>1:05</th> <th>1:10</th> <th>1:15</th> </tr> </thead> <tbody> <tr> <td>RTD (MW)</td> <td>100</td> <td>100</td> <td>100</td> <td>150</td> </tr> <tr> <td>Ramp Up Rate (MW/min)</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> </tr> </tbody> </table>		1:00	1:05	1:10	1:15	RTD (MW)	100	100	100	150	Ramp Up Rate (MW/min)	10	10	10	10
	1:00	1:05	1:10	1:15												
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	<p style="text-align: center;"><u>SCENARIO B</u></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>1:00</td> <td>1:05</td> <td>1:10</td> <td>1:15</td> </tr> <tr> <td>RTD (MW)</td> <td>100</td> <td>100</td> <td>100</td> <td>101</td> </tr> <tr> <td>Ramp Up Rate (MW/min)</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> </tr> </table> <p style="text-align: center;">Slight change in demand Increase in demand</p> <ul style="list-style-type: none"> ○ The intention of the proposal is to provide additional basis in the monitoring, and investigation of participants' compliance to the Must Offer Rule (MOR) / Offered Compliance Capacity (OCC) done by PEMC-ECO and Compliance Committee. ○ Both information on connection status and ramp rate offers will also be monitored when the proposal is adopted. <ul style="list-style-type: none"> ● Chairperson Morillos raised the following questions, to which Mr. Ocampo had answered: <ol style="list-style-type: none"> 1. <i>Had Plant A offered without his breaker open, will the Market Clearing Price be lower?</i> – Yes, because the opening of Plant A's breaker can drive the market clearing price. The opening and closing of breaker is allowed by the WESM Rules. The proposal is only for the ECO to monitor the opening and closing of breaker, like the monitoring of outages if it is valid or not. 2. <i>Does the NMMS have the capability to monitor the opening or closing of circuit breaker?</i> – We are still determining if PEMC can do the monitoring without changing the NMMS environment. Per IEMOP, the monitoring will be an additional process in the system and the impact of which is on the governance side of the market and not on the operational level. 3. <i>Does PEMC have the capability to identify the non-compliant plants and its sinister motives in closing or opening the circuit</i> 		1:00	1:05	1:10	1:15	RTD (MW)	100	100	100	101	Ramp Up Rate (MW/min)	0.2	0.2	0.2	0.2
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	<p><i>breaker?</i> – Yes. But to identify if it has sinister motives, we need to monitor and further study its behavior.</p> <p>4. <i>What do you mean by “not an input of a participant in the MMS?”</i> – Currently, the input of the generator-participant is only offer, which includes the offered capacity that has the breakdown of megawatt capacity and the offer price and the ramp rate. The input on connection status is not coming from the participants but is given by the SO to MO.</p> <ul style="list-style-type: none"> • On operation connection status, the following questions were asked by Chairperson Morillos and Mr. Virgilio C. Fortich, Jr. (Distribution) and correspondingly answered by Mr. Ocampo: <ol style="list-style-type: none"> 1. <i>Was the simulation done under normal pricing condition?</i> – MAG did not include line constraints and power flow because it is tedious on the part of the data processor and MAG has no infrastructure yet that can fully simulate the market. Nevertheless, the demand, offers, ramp rate, and outages were considered in the simulation. 2. <i>Would the result of the simulation be the same if the maximum value was used?</i> – It depends. If there are constraints, there are plants that despite offering cheaper prices, it is still unable to run. The simulation used a generation plant which offered a cheaper price. 3. <i>Does PEMC have the capability to capture that histogram of plant offers?</i> – It depends on the plant offer. If the offer is usually low, MCP will possibly be higher, depending on the plant’s behavior. If it offers a higher price but opened its breaker, there will be no impact to the market. <p>Chairperson Morillos opined that the study should show the regular condition of the market, which is the typical and real behavioral pattern of the plant and does not consider whether the MCP gets higher or lower. In this case, certain behavioral patterns or sinister motives can be derived at that may affect the drive of market clearing price.</p> <p>Moreover, Chairperson Morillos explained that if the syllogism starts with “if”, it is not a good case for policy or rules change making. There should be a past behavioral summation of the plant that should be shown to the PEM Board to better defend the proposal.</p>



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	<ul style="list-style-type: none"> • Mr. Dixie Anthony R. Banzon (Generation) opined that the opening and closing of breaker might be for the purpose of stable loading in the ramp rate without the intention of not running since the market is unpredictable. Stable loading is needed as cycling for some plants is detrimental as it may cause tube leaks resulting to tripping. Hence, the consideration might be on the technical side of the plant. <p>In response to Mr. Banzon's opinion, Ms. Ma. Hazel Gubaton-Lopez said that the technical side of the plant is already being considered in monitoring compliance. She also clarified that the monitoring is not for purpose of determining non-compliance but for assessing the impact whether it constitutes anti-competitive behavior.</p> <p>Further, in response to Chairperson Morallo's query, Ms. Gubaton-Lopez also said that there is no need for system enhancements as PEMC may do procedural enhancements in gathering data.</p> <p>Mr. Claudio added that there are technical reasons why ramp rate varies and not constant from Pmin to Pmax. For coal powered plants and aggregated plants, the ramp rate depends on the number of coal mills in operation and the number of online generating units, respectively.</p> <ul style="list-style-type: none"> • Mr. Claudio added there was a previous incident where the circuit breaker is actually closed on the plant side but was open on NGCP's Energy Management System (EMS) side. This incident showed that the EMS was not updating. The scan-inhibit procedure is being done to ensure that the circuit breaker is closed anytime so that the plant can be ensured to have a schedule. This instance should be considered by ECO in monitoring or investigating. <p>Chairperson Morillos asked how to avoid the issue of EMS non-updating and requested the concerned parties to provide the RCC the necessary information on the need to enhance the EMS.</p> <ul style="list-style-type: none"> • Ms. Gubaton-Lopez further explained the proposal by posing the question – Why should a plant provide a large offer when it has no intention to run by opening its circuit breaker? She opined that the impact of the opening of circuit breaker while offering is on the supply security side since it will trigger changes in pricing, rather than on the impact on the price whether it will be lower or higher.

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	<p>On the impact of open circuit breaker, she said that the IEMOP confirmed that the breaker status is only covered in the first four hours of the DAP, but for HAP and RTD schedules, while the breaker status is a component, it no longer has any impact on the market clearing price.</p> <ul style="list-style-type: none"> Ms. Gubaton-Lopez stressed that the breaker status has significance on the pricing in terms of supply security, such as when an outage occurs, the market will look for another available generator, which made an overt act of submitting an offer but will open its breaker, making itself unavailable for dispatch. Chairperson Morillos asked if the proponent intended to resolve the issue by strengthening the monitoring and authorizing the ECO to do it and if the current WESM Rules and Manuals already provided for such authority, to which Ms. Gubaton-Lopez answered in the affirmative. She explained that the WESM Rules is broad enough to authorize the Governance Arm at the present. She restated that the proposal is to strengthen the validation activity of ECO as to the reasons behind the opening of circuit breaker despite the scan-inhibit procedure. In this way, it would be a signal to the participant to be careful in availing the provision of the rules (e.g. open-close breaker) for purposes other than its legitimate objectives. The intention is to allow the governance to investigate further because the rules might be used for other purposes adverse to the market. Ms. Gubaton-Lopez further discussed that while ECO is doing the monitoring like the checking of the Must-Offer Rule (MOR), the generator could simply pass that MOR flagging since it submitted its offer. They would like to see, however, the whole circumstances during the time that it offered and opened its breaker. The breaker status is available for gathering from IEMOP since it is a real-time data captured by the MMS. <p>Further, she clarified that the proposal will not require all generators with open breaker to explain. Only generators exhibiting unusual behavior will be required to explain and not for apparent reasons like outage.</p> <ul style="list-style-type: none"> Otherwise stated, Ms. Gubaton-Lopez said that there is already an existing provision for the nomination of offer, but they are proposing

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	<p>to add conditions when offering. The proposal is that aside from the submission of offer or nomination, it should already indicate the real-time plant status, breaker and the ramp rate. When the participants do the offer, they should be mindful of the circumstances while submitting an offer. It is to impose an obligation to the participant to consider the plant’s status and not simply submitting an offer.</p> <ul style="list-style-type: none"> • On the infrastructure, Ms. Gubaton-Lopez said that IEMOP confirmed that it would be difficult to include the circuit breaker status in the MMS as it is not an input to the system but a real-time data being read from the plant every second. As explained by IEMOP, it would rather be difficult to restrict the submission of offers thru the MMS. Since it is being allowed by the system, there would be a valid reason for opening the breaker or lowering the ramp rate. • In summary, the RCC Chairperson stated that there is a need for a strong policy to strengthen the monitoring of behavioral patterns by the Governance Arm. As discussed by the proponent, the generator should not indiscriminately open or close its breaker and it must be done only for valid plant constraints or reasons. Generators would be required to report the opening of its breaker and the reasons for doing so. • Mr. Ryan S. Morales (Distribution) commented that the proposal is timely considering the high prices in the spot market, which is very susceptible to inadequacy of offers. If there is an additional monitoring, we can prevent unnecessary price spikes events in anticipation of dry season where there is a very tight supply with no additional supply in the horizon for the next three (3) years. <p>Having no further questions, Ms. Cherry Javier (Generation) moved to approve the publication of the simulation results prepared by MAG, which was duly seconded by Mr. Jose Roderick Fernando (Independent) and was adopted by the body.</p> <p><u>RCC Agreement:</u></p> <p>The RCC approved to publish the supplemental information for the proposal. Comments (in Word format) may be submitted through the WESM website no later than 09 January 2023 or 30 working days from the date of publication (23 November 2022).</p>



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<p>5.2. NPC's Proposed Amendments regarding Non-Security Overriding Constraints (RCC Resolution No. 2022-09)</p> <ul style="list-style-type: none"> • Consideration of DOE DC No. 2022-10-0031 (Preferential dispatch of all generating units utilizing RE resources in the WESM) 	<p><u>Presenter:</u> Ms. Divine Gayle C. Cruz (Secretariat)</p> <p><u>Action Requested:</u> For RCC's decision on the way forward for NPC's proposal regarding Non-Security Overriding Constraints</p> <p><u>Materials:</u> Annex "B" – MAG-RRD Presentation on NPC Proposal and DOE DC 2022-10-0031</p> <p><u>Proceedings:</u></p> <ul style="list-style-type: none"> • Ms. Divine Cruz (Secretariat) informed that the PEM Board has twice deferred the proposal for further study. Below are the highlights of the presentation: <ul style="list-style-type: none"> ○ DOE DC 2015-03-001 designates FIT biomass as priority dispatch while the recent DOE DC 2022-10-0031 designates biomass, geothermal, impounding hydro as "not must dispatch". ○ DOE DC 2022-10-0031 provides that the priority dispatch status for impounding hydro plants (currently scheduled plants) shall be <u>at the option</u> of the RE developer. Impounding hydro plants are those that uses dams and reservoir. ○ The NPC proposal will allow hydropower plants to submit and be imposed with Non-security Overriding Constraints, subject to System Operator approval, due to Dam Operations during Local Calamities. ○ The objective of NPC proposal is to lower reservoir elevation due to incidents (e.g. flooding, damage to dam infrastructure) to avert or minimize damage to infrastructure and ensure safety of people living in affected localities. ○ Upon initial assessment of MAG, the new DOE DC may address NPC's objective to be prioritized in scheduling and dispatch if NPC's counterparty hydropower plant opts to be re-classified from "scheduled" to "priority" generating units. • Ms. Cruz likewise presented the concerns initially identified by MAG in relation to hydropower plants, as follows: <ul style="list-style-type: none"> ○ It is uncertain if a hydropower plant will opt to be re-classified from "scheduled" to priority" dispatch generating unit due to individual business or contractual considerations. ○ The DOE circular is unclear whether hydropower plants currently providing ancillary services can be allowed to be re-classified as priority dispatch generating units. There are

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	<p>currently hydropower plants currently providing ancillary services. If the hydropower plant is both required to offer for energy and ancillary services, there will be a conflict if it will be a price-taker or priority dispatch generating unit.</p> <ul style="list-style-type: none"> • Chairperson Morillos asked if there is a need to improve the rules to operationalize the DOE DC which sets the priority dispatch generators to enjoy preferential dispatch. Ms. Cruz responded in the affirmative and explained that the DOE DC only provides for the general policy and embedded to it is the instruction to the MO to introduce specific proposed amendments to implement the circular. • As an update, Ms. Karen H. Siruma (IEMOP) said that they are currently drafting the proposal and plans to submit the same next month. In summary, the proposal contains the updating of definitions as the WESM Rules currently defines the generators that are eligible for priority dispatch, thus, this will be amended to cover the geothermal and impounding hydro plants. All other provisions related to monitoring and compliance will also be applicable to geothermal and impounding hydro plants. <p>Moreover, Ms. Siruma explained that geothermal and impounding hydro plants that are providing ancillary services will be proposed to be registered as scheduled generating units because they will be required to submit energy offers to be able to trade in the reserve market.</p> <p>Chairperson Morillos asked if the reclassification entails disclosure of BCQ or AS contracted quantity, to which Ms. Siruma answered in the affirmative.</p> <ul style="list-style-type: none"> • Chairperson Morillos asked if the NPC would like to withdraw or retire their proposal in consideration of the promulgation of DOE DC 2022-10-0031. Mr. Conrado C. Sison, Jr. (NPC) answered that if the DOE DC already served the purpose of their proposal during the dam's spilling operation, they would agree to withdraw the proposal. • Ms. Maria Teresa L. Serra (NPC) requested if her understanding is correct that the hydropower plant will just be reclassified as priority dispatch and thus, there will be no need to add under the WESM Manual that it be treated as non-overriding security



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	<p>constraint. She also requested that the NPC be given time to discuss the matter internally, to which Mr. Sison, Jr. supported as they need to raise the matter to their higher management being a corporate concern.</p> <ul style="list-style-type: none"> Mr. Ken G. Trinidad (NPC) also requested for clarification if the DOE DC will likewise permit hydropower plants to not only be priority-dispatched but to be fully dispatched with maximum turbine discharges. Chairperson Morillos responded that the question raises a new idea, but IEMOP's rules change proposal will be for the implementation of the qualified plants as priority dispatch. The original issue raised by the NPC is regarding emergency condition. If the plant opts to be priority dispatched, the concern of NPC can be addressed. But if the plant would remain as scheduled generator, then NPC's issue might remain unchanged. <p>In addition, Mr. Claudio commented that the NPC should be aware of (1) how the plants will be managing their forecast, since they will still be monitored for dispatch conformance standards; and (2) whether or not such hydropower plants that are currently providing ancillary services can be allowed to be re-classified as priority dispatch generating units as raised by the Secretariat. He noted that San Roque and Kalayaan Hydropower Plants are both ancillary service providers.</p> <p>Chairperson Morillos requested the NPC to formally manifest their decision on whether to pursue the proposal.</p> <ul style="list-style-type: none"> Mr. Ambrocio C. Rosales, Jr. (SO) commented that NPC's request is usually accommodated by the SO, but the SO needs a documentation of the process in the manual for it to be binding. He explained that once the hydropower plant is included as the non-security over-riding constraint, it will be reflected in the real-time dispatch schedule. In the subject DOE DC, if the plant is a priority dispatch generating unit, it will still be reflected in the real-time dispatch schedule subject to MOT. He reminded that all options are with the assumption that the grid is under normal dispatch operations. <p>Further, in case of emergency, where the security of the grid is at stake, the SO will implement market intervention. If on market intervention, the RTD schedule will no longer be implemented because the focus is to save the system to prevent system</p>



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	<p>collapse. Thus, there may be a situation where the dam elevation is high but the plant may not be dispatched or it may be requested to reduce its output since the priority is the systems security.</p> <p>In summary, Chairperson Morillos stated that the principle of hierarchy being followed in dispatching is (1) grid security, (2) grid reliability, then (3) preference. If hydropower plant cannot be dispatched following the hierarchy, it still has the option to spill-over.</p> <p>Moreover, Mr. Valeriano Barro, Jr. (NPC) commented that there is no instance yet that the NGCP rejected their request to be dispatched during typhoons.</p> <ul style="list-style-type: none"> • Ms. Cynthia Encarnacion (SMCGP) asked if they can present before the RCC their concerns regarding trading and protocols of a hydropower plant. Chairperson Morillos advised to present an objective and not subjective nor over-arching propositions following the guidelines for rules changes. Moreover, he said that the legal feasibility of NPC's proposal has now been addressed by the DOE DC, but not the bifurcated situation of the dam operator and plant operator. He stressed that the internal policy between the dam operator and the plant operator is not within the jurisdiction of RCC. • Ms. Serra (NPC) asked if the NPC proposal will resolve the concern for Caliraya Dam as AS provider to be prioritized in the dispatch before the typhoon's onslaught (pre-emptive release). Chairperson Morillos opined that the proposal will become redundant because of the DOE DC. However, the hydropower plant will still have the option to spill-over if they will not be preferentially dispatched. <p>Mr. Rosales, Jr. further explained that if the generator will be reclassified as priority dispatch, it does not mean that the AS provider will not be prioritized. Instead, it will be a scheduled day-ahead AS provider. During real time implementation, it should not fully trade in the market as energy because AS is only dedicated to support the grid.</p>



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Philippine Electricity
Market Corporation

Proposed Agenda	Highlights/Agreements/Action Taken
	<p><u>RCC Agreement:</u></p> <p>The RCC requested:</p> <ol style="list-style-type: none"> 1. The NPC/Angat Hydropower plant representatives to present their concerns and protocols in the next RCC meeting. 2. The NPC to formally inform the RCC regarding its decision on whether they will pursue their proposal.
<p>5.3. Updates on MEI/PEI's concerns regarding Additional Compensation:</p> <ul style="list-style-type: none"> • Non-tagging of constrained-on generators during network congestion/PSM event 	<p><u>Presenter:</u> Mr. Carlito C. Claudio (MEI/PEI); Divine Gayle C. Cruz (Secretariat)</p> <p><u>Action Requested:</u> For information/discussion</p> <p><u>Proceedings:</u></p> <ul style="list-style-type: none"> • Mr. Carlito C. Claudio (MEI/PEI) informed the Committee that they have not yet set a coordination meeting with NGCP since the latter has not yet reviewed the data. • Mr. Ambrocio C. Rosales (NGCP) clarified that the usual process for data review request is through its RRA Office and as confirmed with the RRA Office, no data validation request has been submitted by MEI/PEI. • Mr. Edward I. Olmedo (IEMOP) explained the difference between "constrain-on generator" and "constrained-on generator". The former is for re-dispatch instruction of the SO using the Merit Order Table (MOT), while the latter is a case of scheduling, during network congestion or Price Substitution Methodology (PSM) events. <p>Mr. Olmedo expounded that if there is a network congestion during scheduling, like in Hermosa, Bataan grid because of deration of some plants, some generators are not maximized and other generators are asked to increase their schedule, which is part of the scheduling algorithm. Extreme price separation can occur, which triggers the PSM application. If PSM is applied, all generators will be paid at the unconstrained price, which is the recomputed price in real-time under the assumption that there is no congestion. The unconstrained price is also the price for all constrained-on generators.</p>

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	<p>Further, Mr. Olmedo explained that constrained-on generator is the generator called upon to increase their schedule. It is allowed to file for an additional compensation under the PSM. In the case of the generation plant of MEI/PEI, it is located on the other side of Hermosa, Bataan grid, where network congestion does not occur. Thus, MEI/PEI's generation plant is a constrained-off generator since it cannot pass through, and consequently cannot be identified as constrained-on generator.</p> <ul style="list-style-type: none"> • Mr. Jessie B. Victorio (MEI/PEI) clarified that their plant was requested to increase the generation to address the congestion, but it was not tagged properly as constrained-on generator, thus, was not compensated properly. In other words, Mr. Claudio said that their concern is the proper tagging of constrained-on generators for purposes of additional compensation. • Mr. Olmedo said that if MEI/PEI wanted to be tagged and consequently be compensated properly for being a constrained-on generator, the provision under the WESM Rules and Manual providing for such process can be availed of. He added that the list of eligible generators is published in IEMOP website every Monday, for review by the participants. A two (2) week timeline is provided for the participants to raise any issue to the Market Operator. The process is being implemented since 2016 for re-dispatch instructions that are not properly recorded. <p>Mr. Olmedo volunteered to set-up the meeting with MEI/PEI and NGCP possibly next week. Chairperson Morillos requested the parties to review the issues on operational level, including data appreciation, reporting, and tagging, and provide feedback to the RCC on the results of discussion.</p> <p><u>RCC Agreement:</u> To resolve the operational concerns, IEMOP will set a meeting with MEI/PEI and NGCP, possibly next week.</p> <p>MEI/PEI was requested to directly send the relevant data to IEMOP and NGCP for data review.</p>
VI. Other Matters	
6.1. DOE Updates a) Schedules of Public Consultation	<p><u>Presenter:</u> Ms. Melanie C. Papa (DOE Observer)</p> <p><u>Action Requested:</u> For information</p>

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Proposed Agenda	Highlights/Agreements/Action Taken
b) Proposals Promulgated / for Promulgation	<p><u>Proceedings:</u></p> <p>The DOE has recently promulgated the following:</p> <ol style="list-style-type: none"> 1. DOE DC No. 2022-11-0032 entitled "Adopting Further Amendments to the WESM Rules and Market Manuals for the Implementation of Reserve Market" - Transmitted to PEMC on 14 December 2022. 2. DOE DC No. 2022-11-0036 entitled "Adopting Further Amendments to the WESM Rules and Market Manuals on System Security and Reliability Guidelines (SSRG) and Dispatch Protocol for the Implementation of the Reserve Market – Published on 01 December 2022, for transmittal to PEMC.
6.2. Schedule of Activities: a) RCC Meetings <ul style="list-style-type: none"> • 20 Jan 2023 • 17 Feb 2023 • 17 Mar 2023 b) PEM Board Meetings <ul style="list-style-type: none"> • 19 Jan 2023 • 25 Jan 2023 	<p>The RCC noted the schedule of events.</p> <p>Secretariat will consult the RCC members regarding their preference for the conduct of RCC meetings next year (via MS Teams / face-to-face / hybrid).</p>
VII. Adjournment	<p>The meeting was adjourned at 11:45 AM.</p>



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Prepared by:



KATHLEEN R. ESTIGOY
Specialist, Rules Review Division
Market Assessment Group

Reviewed by:



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

Noted by:



BIENVENIDO C. MENDOZA, JR.
Officer-in-Charge, Market Assessment Group

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Approved by:



JESUSITO G. MORALLOS
Member, Independent



JOSE RODERICK F. FERNANDO
Member, Independent

(vacant)
Independent



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

(vacant)
Independent



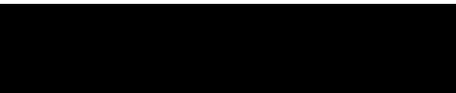
DIXIE ANTHONY R. BANZON
Member, Generation Sector
Masinloc Power Partners Co. Ltd. (MPPCL)



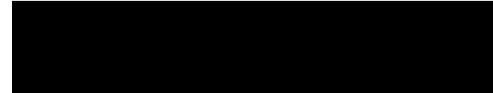
MARK D. HABANA
Member, Generation Sector
Vivant Corporation – Philippines (Vivant)



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



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



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

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



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



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

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



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

ANNEX A – MAG’s Simulation on MCP With or Without Open Breaker Status

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SUPPLEMENTAL DISCUSSION ON PROPOSED AMENDMENTS TO THE WESM RULES, AND THE WESM DISPATCH PROTOCOL MANUAL RE: MAXIMUM AVAILABLE CAPACITY

16 December 2022 | via MS Teams

REQUESTED ACTION

- For discussion, and for approval to publish supplemental information

ANNEX A – MAG’s Simulation on MCP With or Without Open Breaker Status

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ASSESSMENT OF MAG-RULES REVIEW DIVISION (MAG-RRD)

*“Proponent may need to elaborate further the direct **“impact or consequence”** of ‘circumvention of the must-offer rule’ through submitting offers but **opening the breakers** or submitting offers with **very low ramp rates** (e.g., impact on scheduling, real-time dispatch, etc.).”*

MARKET IMPACT



On Operation



On Governance



ANNEX A – MAG’s Simulation on MCP With or Without Open Breaker Status

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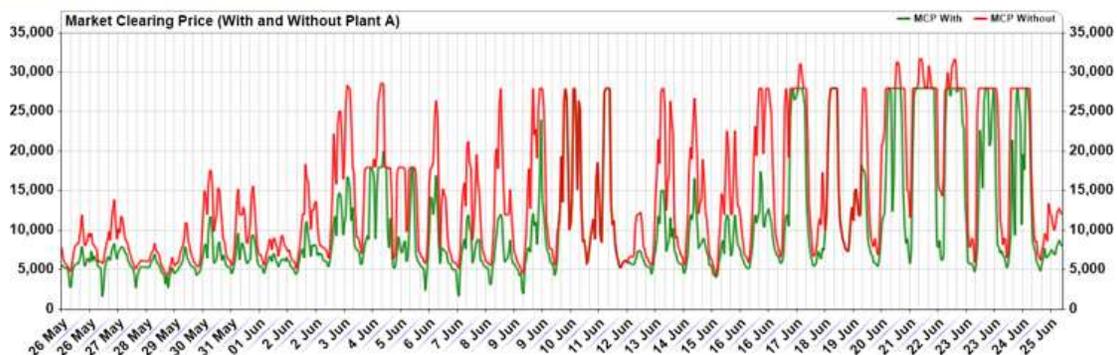
CONNECTION STATUS AND RAMP RATE

- Connection Status
 - Based on ICCP / real-time status of the grid
 - **NOT** an input of a participant in the MMS
 - Can be manually controlled in the plant side
- Ramp Rate
 - **IS** an input of a participant in the MMS
 - Submitted alongside capacity offers

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ON OPERATION (CONNECTION STATUS)

MO considers real-time data in market runs; thus, takes into account the connection/breaker status of a plant even if they have offers in the MMS



Based on simulation as above:

- Price with consideration of Plant A's offer would have **lowered market clearing prices by 45.84%**

Note: The simulation does not include line constraints and power flow during the optimization run

6

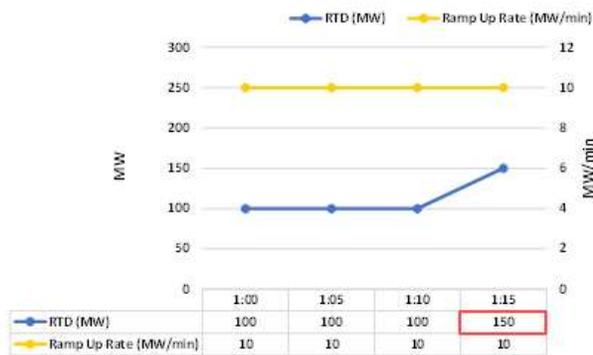
ANNEX A – MAG’s Simulation on MCP With or Without Open Breaker Status



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ON OPERATION (RAMP RATE)

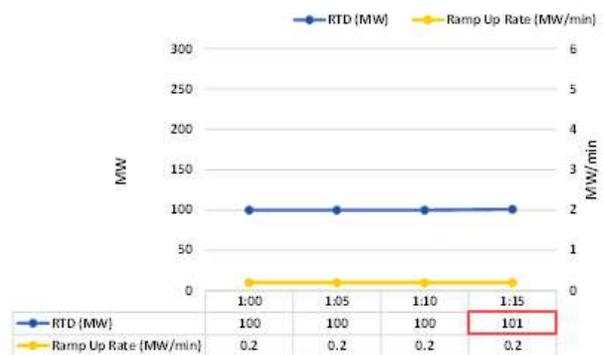
SCENARIO A



Assumptions:

Little to no change in demand Increase in demand

SCENARIO B



Little to no change in demand Increase in demand

ON GOVERNANCE (COMPLIANCE MONITORING AND ASSESSMENT)

- While both scenarios are currently allowed by the rules, this can possibly be used to not fully offer or maximize capacities which may defeat the purpose of the Must Offer Rule (MOR)
- The intention of the rules change proposal is to provide additional basis in the monitoring, and investigation of participants’ compliance to the Must Offer Rule (MOR) / Offered Compliance Capacity (OCC) done by PEMC-ECO and Compliance Committee
 - Both information on **connection status** and **ramp rate offers** will also be monitored when proposal is adopted

ANNEX A – MAG’s Simulation on MCP With or Without Open Breaker Status

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REQUESTED ACTION

- For discussion and approval to publish supplemental information



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ANNEX B – MAG-RRD Presentation on NPC Proposal and DOE DC 2022-10-0031

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DISCUSSION ON NPC PROPOSAL AND DOE DC 2022-10-0031

DOE DC: Declaring All RE as Preferential Dispatch Generating
Units

206th RCC (Regular) Meeting | 13 December 2022

ACTION REQUESTED

- For RCC decision on way forward for NPC's proposal regarding Non-Security Overriding Constraints.



ANNEX B – MAG-RRD Presentation on NPC Proposal and DOE DC 2022-10-0031

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BACKGROUND

SUMMARY OF DOE DC 2022-10-0031

	DC2015-03-0001	DC2022-10-0031
Must Dispatch	<ul style="list-style-type: none"> • Wind • Solar • Run-of-river hydro • Ocean energy 	<ul style="list-style-type: none"> • Wind • Solar • Run-of-river hydro • Ocean energy
Priority Dispatch	FIT biomass	"Not Must Dispatch" <ul style="list-style-type: none"> • Biomass • Geothermal • Impounding hydro

OBJECTIVES:

- ✓ Accelerate development and utilization of indigenous energy resources
- ✓ Reduce dependence on imported conventional energy resources
- ✓ Minimize country's exposure to price fluctuations in the global markets and international incidents
- ✓ Support efforts to achieve PH's Nationally Determined Contribution Targets

BACKGROUND

SUMMARY OF DOE DC 2022-10-0031

- ❖ Priority Dispatch status for **IMPOUNDING HYDRO PLANTS** (currently scheduled plants) shall be at the option of the RE developer

ANNEX B – MAG-RRD Presentation on NPC Proposal and DOE DC 2022-10-0031

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BACKGROUND

CURRENT WESM RULES vs. NEW DOE DC 2022-10-0031

	DEFINITIONS	
	WESM RULES	DC2022-10-0031
Must Dispatch	A generating unit or group of generating units connected at a common connection point that is intermittent renewable energy resource-based, whether or not under the Feed-In Tariff system, such as wind, solar, run-of-river hydro or ocean energy with the corresponding DOE certification shall be classified as a must dispatch generating unit, but may at its option be classified as a scheduled generating unit or as a non-scheduled generating unit subject to Clause 2.3.1.4.	"Must Dispatch" is facilitated in the WESM for qualified and registered intermittent or variable RE-based plants, which include solar, run-of-river hydro, and ocean energy power plants, according to the preference in the dispatch schedule whenever generation is available, pursuant to Section 20 of the RE Act.
Priority Dispatch	A generating unit or group of generating units connected at a common connection point that uses biomass as fuel, that is under the Feed-In Tariff system, with the corresponding Feed-In Tariff Certificate of Compliance shall be classified as a priority dispatch generating unit, but may at its option be classified as a scheduled generating unit or as a non-scheduled generating unit subject to Clause 2.3.1.4.	"Priority Dispatch" means giving the option or preference to all qualified and registered RE plants that are not Must Dispatch such as biomass, geothermal, and impounding hydro plants to enjoy preferential dispatch in the WESM, taking into consideration their contractual obligations with their respective customers.



PREFERENTIAL DISPATCH

CURRENT IMPLEMENTATION

	MUST DISPATCH (solar, wind, run-of-river, ocean)	PRIORITY DISPATCH (FIT biomass)
SUBMISSIONS TO MO	<ul style="list-style-type: none"> Projected output Quantity only (MW) 	<ul style="list-style-type: none"> Nomination of loading level Quantity only (MW)
SCHEDULING & DISPATCH	Prioritized in scheduling and MOT	
COMPLIANCE	Forecast Accuracy Standards	Dispatch Conformance Standards
COMPENSATION	Price-taker	



ANNEX B – MAG-RRD Presentation on NPC Proposal and DOE DC 2022-10-0031



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NPC PROPOSAL SUMMARY

- ❖ Allow hydropower plants to submit and be imposed with **Non-security Overriding Constraints**, subject to System Operator approval, due to Dam Operations during Local Calamities.
 - To lower reservoir elevation due to incidents (e.g., flooding, damage to dam infrastructure) to avert or minimize damage to infrastructures and ensure safety of people living in affected localities.

NPC-MANAGED DAMS	
LUZON	MINDANAO
1) <u>Ambuklao</u>	1) <u>Pulangi 4</u>
2) <u>Binga</u>	2) <u>Lake Lanao</u>
3) <u>San Roque</u>	3) <u>Aqus 2</u>
4) <u>Angat</u>	4) <u>Aqus 4</u>
5) <u>Caliraya</u>	5) <u>Aqus 5</u>
	6) <u>Aqus 6</u>
	7) <u>Aqus 7</u>



ANNEX B – MAG-RRD Presentation on NPC Proposal and DOE DC 2022-10-0031

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NPC PROPOSAL

IMPACT OF DC2022-10-0031

- ❖ New DC may address NPC's objective to be prioritized in scheduling and dispatch if NPC's counterparty hydropower plants opt to be re-classified from 'scheduled' to 'priority' dispatch generating units.

HYDRO PLANTS		
	RCC RESOLUTION NO. 2022-09 (As Scheduled Generating Unit; Dispatch via Non-Security Overriding Constraints)	DC2022-10-0031 (Priority Dispatch Generating Unit)
SUBMISSION TO MO	<ul style="list-style-type: none"> • None • TP submits to SO MW target for each relevant interval 	<ul style="list-style-type: none"> • Nomination of loading levels • Quantity only (MW)
SCHEDULING & DISPATCH	<ul style="list-style-type: none"> • MW profile subject to SO approval • TP's MW profile included in SO's input to MO as overriding constraints 	Prioritized in scheduling and MOT by MO
COMPLIANCE	Dispatch Conformance Standards	
COMPENSATION	Price-taker	

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CONCERNS (SPECIFIC TO HYDROPOWER PLANTS)

- 1) It is uncertain if a hydropower plant will opt to be re-classified from 'scheduled' to 'priority' dispatch generating unit due to individual business or contractual considerations.
- 2) The DOE circular is unclear whether hydropower plants currently providing ancillary services can be allowed to be re-classified as priority dispatch generating units.

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ANNEX B – MAG-RRD Presentation on NPC Proposal and DOE DC 2022-10-0031

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Philippine Electricity
Market Corporation

ACTION REQUESTED

- For RCC decision on way forward for NPC's proposal regarding Non-Security Overriding Constraints.

[RCC] FOR ELECTRONIC SIGNING: 206th RCC Minutes of Meeting

Final Audit Report

2023-01-25

Created:	2023-01-23
By:	Kathleen Estigoy (krestigoy@wesm.ph)
Status:	Signed
Transaction ID:	CBJCHBCAABAAf3tQS5iNGC5LOuteMIWr3LZm0DSIB0x_

"[RCC] FOR ELECTRONIC SIGNING: 206th RCC Minutes of Meeting" History

-  Document created by Kathleen Estigoy (krestigoy@wesm.ph)
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-  Document emailed to Kathleen Estigoy (krestigoy@wesm.ph) for signature
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-  Document emailed to kavarquez@wesm.ph for signature
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-  Document emailed to mark.habana@vivant.com.ph for signature
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2023-01-23 - 10:44:54 AM GMT

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2023-01-23 - 11:19:13 AM GMT

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2023-01-23 - 11:21:21 AM GMT

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Signature Date: 2023-01-23 - 11:28:08 AM GMT - Time Source: server

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2023-01-24 - 0:03:43 AM GMT

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2023-01-24 - 0:05:59 AM GMT

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Signature Date: 2023-01-24 - 0:06:01 AM GMT - Time Source: server

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2023-01-24 - 0:49:32 AM GMT

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2023-01-24 - 0:52:38 AM GMT

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2023-01-24 - 2:38:56 AM GMT

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2023-01-25 - 0:22:03 AM GMT

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2023-01-25 - 2:22:19 AM GMT

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2023-01-25 - 5:36:28 AM GMT

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2023-01-25 - 5:38:32 AM GMT



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

Signature Date: 2023-01-25 - 5:38:34 AM GMT - Time Source: server



Agreement completed.

2023-01-25 - 5:38:34 AM GMT



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