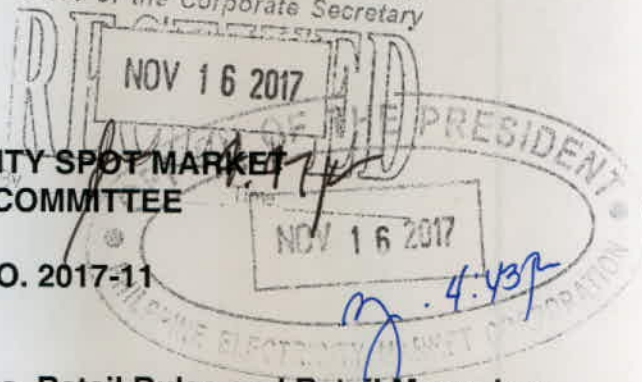




**WHOLESALE ELECTRICITY SPOT MARKET
RULES CHANGE COMMITTEE**

RESOLUTION NO. 2017-11



**Proposed Amendments to the WESM Rules, Retail Rules and Retail Manual on
Metering Standards and Procedures Issue 2.0 for Clarifications on Retail
Market Integration**

WHEREAS, the Philippine Electricity Market Corporation (PEMC) submitted to the Rules Change Committee (RCC) the Proposed Amendments to the WESM Rules, Retail Rules and Retail Manual on Metering Standards and Procedures Issue 2.0 for Clarifications on Retail Market Integration on 06 July 2017;

WHEREAS, the proposal sought to clarify the following:

- (i) the application of WESM processes on retail market participants,
- (ii) the treatment of retail market participants under the WESM Rules; and
- (iii) that the standards under the Philippine Distribution Code shall apply to contestable customers within distribution utilities, with interval metering being the only additional requirement by the market;

WHEREAS, the proposal was presented to the RCC by PEMC during the RCC's 131st Meeting on 07 July 2017, and was approved for publication to solicit comments from WESM Members and stakeholders;

WHEREAS, after 30 working days from the date of publication of the proposal, comments were received from the DOE and MERALCO;

WHEREAS, the RCC deliberated on the proposal during its 133rd Meeting on 14 September 2017, giving due consideration to the comments received and PEMC's responses to the same;

WHEREAS, it was observed that the proposed amendments took off from the amended Retail Rules and Retail Manual on Metering Standards and Procedures as approved by the RCC per RCC Resolution No. 2017-04 and subsequently by the PEM Board per PEM Board Resolution No. 2017-18 for endorsement to the DOE, and will in turn supersede said previous approved amendments;

WHEREAS, noting that no objections against the proposal were received and only minor revisions were suggested for clarity and enhancements, the RCC adopted the proposed amendments and said minor changes to certain provisions;

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WHEREAS, the RCC nonetheless deferred endorsing the subject proposal to the PEM Board to ensure that the same would be consistent with the parallel proposal to amend the WESM Manual on Metering Standards and Procedures, which was for further deliberation and revision by the RCC Sub-committee created for the purpose;

WHEREAS, following its deliberation held on 22 September 2017, the RCC Sub-committee found that the revisions to the proposed amendments to the WESM Manual on Metering Standards and Procedures did not affect the subject proposal;

WHEREAS, the RCC thereafter adopted and approved the subject proposal for endorsement to the PEM Board during its 134th Meeting held on 06 October 2017;

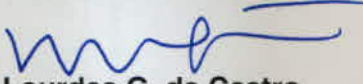
NOW THEREFORE, we, the undersigned in behalf of the sector we represent, hereby resolve as follows:

RESOLVED, that the Proposed Amendments to the WESM Rules, Retail Rules and Retail Manual on Metering Standards and Procedures Issue 2.0 for Clarifications on Retail Market Integration is hereby approved by the RCC;

RESOLVED FURTHER, that the attached Annex A to C of the Proposed Amendments to the WESM Rules, Retail Rules and Retail Manual on Metering Standards and Procedures Issue 2.0 for Clarifications on Retail Market Integration is hereby endorsed to the PEM Board for approval and endorsement to the DOE.

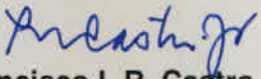
Done this 10 November 2017, Pasig City.


Approved by:
RULES CHANGE COMMITTEE


Maila Lourdes G. de Castro
Chairperson
Independent


Members:

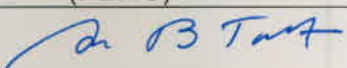
Concepcion I. Tanglao
Independent

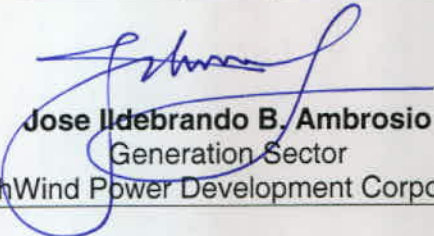

Francisco L.R. Castro, Jr.
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Allan C. Nerves
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Isidro E. Cacho, Jr.
Market Operator
Philippine Electricity Market Corporation
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Ambrocio R. Rosales
Transmission Sector
National Grid Corporation of the Philippines
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Abner B. Tolentino
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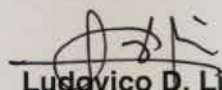

Jose Ildebrando B. Ambrosio
Generation Sector
NorthWind Power Development Corporation

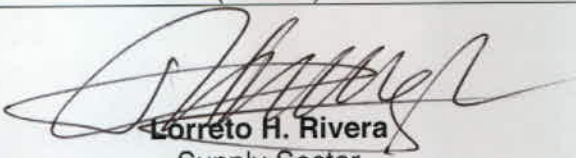
Theo C. Sunico
Generation Sector
Vivant Corporation

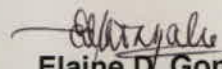

Ciprinilo C. Meneses
Distribution Sector (PDU)
Manila Electric Company
(MERALCO)


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

Juanito Tolentino
Distribution Sector
Mactan Electric Company
(MECO)


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


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

Noted by:

Elaine D. Gonzales
Manager – Market Data and Analysis

Proposed Amendments to the WESM Rules for Clarifications on Retail Market Integration

WESM Rules				
Title	Clause	Provision	Proposed Amendment	Rationale
Market Trading Nodes	3.2.2.6 (new)	(blank)	<u>A connection point of a contestable customer and is directly connected to a distribution system shall be represented in the market network model by the market trading node of its grid off-take metering point.</u>	<p>This proposal provides for a basis in the representation of CCs within a DU franchise area, which are WESM trading participants, in the market network model through its host DU's trading nodes. This is in compliance with the WESM Rules 3.2.2.1 which requires the assignment of a market trading node to a WESM trading participant for purposes of dispatch and settlement in the WESM.</p> <p>As such, the price at the DU's market trading node where the CC's grid off-take metering point is associated will be used for the settlement of energy for CCs.</p>
Defining the Gross Energy Settlement Quantity for Market Trading Nodes	3.13.6	<p>For each <i>dispatch interval</i>, the gross <i>energy settlement quantity</i> for each <i>market trading node</i> shall be determined by the <i>Market Operator</i> as follows:</p> <p>XXX</p> <p>(d) If the net metered flows registered through a meter is inconsistent with the expected power flows at the <i>market trading node</i> to which that meter is associated, the <i>Metering Services</i></p>	<p>For each <i>dispatch interval</i>, the gross <i>energy settlement quantity</i> for each <i>market trading node</i> shall be determined by the <i>Market Operator</i> as follows:</p> <p>XXX</p> <p><u>(d) The gross energy settlement quantity of a market trading node of a Customer who is a Distribution Utility with a contestable customer connected to its distribution system</u></p>	<p>Provide reference to the Retail Rules on the calculation of GESQ for DUs with contestable customers, and contestable customers. Determination of GESQ of retail participants is different from the rest of the WESM trading participants.</p>

WESM Rules				
Title	Clause	Provision	Proposed Amendment	Rationale
		<p><i>Provider shall determine and shall notify the Market Operator and the relevant Trading Participant the appropriate manner of determining the gross ex-post settlement quantity for that market trading node.</i></p>	<p><u>shall be determined in accordance with Retail Rules Clause 3.3.3.3.</u></p> <p><u>(e) The gross energy settlement quantity of a market trading node of a contestable customer shall be determined in accordance with Retail Rules Clause 3.3.4.</u></p> <p><u>(f)</u> If the net metered flows registered through a meter is inconsistent with the expected power flows at the <i>market trading node</i> to which that meter is associated, the <i>Metering Services Provider</i> shall determine and shall notify the <i>Market Operator</i> and the relevant <i>Trading Participant</i> the appropriate manner of determining the gross ex-post settlement quantity for that <i>market trading node</i>.</p>	
Settlement Amounts for Trading Participants	3.13.11.1	<p>For each <i>billing period</i>, the <i>Market Operator</i> shall determine the <i>settlement amount</i> for each <i>Trading Participant</i> as the sum of the aggregate trading amounts for the <i>settlement intervals</i> in that <i>billing period</i>, determined in accordance with clause 3.13.11.2: plus</p> <p>XXX</p>	<p><u>Subject to WESM Rules Clause 3.13.11.4,</u> for each <i>billing period</i>, the <i>Market Operator</i> shall determine the <i>settlement amount</i> for each <i>Trading Participant</i> as the sum of the aggregate trading amounts for the <i>settlement intervals</i> in that <i>billing period</i>, determined in accordance with clause 3.13.11.2: plus</p> <p>XXX</p>	Provide reference to the Retail Rules on the calculation of settlement amounts of suppliers and contestable customers. Calculation of settlement amounts of retail participants is different from the rest of the WESM trading participants.

WESM Rules				
Title	Clause	Provision	Proposed Amendment	Rationale
Settlement Amounts for Trading Participants	<u>3.13.11.4 (new)</u>	(blank)	<u>Settlement amounts of contestable customers or suppliers shall be determined in accordance with Retail Rules Clause 3.3.9.</u>	Provide reference to the Retail Rules on the calculation of settlement amounts of suppliers and contestable customers. Calculation of settlement amounts of retail participants is different from the rest of the WESM trading participants.
Metering – Application of Chapter	4.2	<p>This chapter 4 applies to:</p> <p>XXX</p> <p>(d) All WESM members as far as applicable.</p>	<p>This chapter 4 applies to:</p> <p>XXX</p> <p>(d) All WESM members as far as applicable.</p> <p><u>This chapter 4 does not apply to contestable customers directly connected to distribution systems. Obligations, requirements, and procedures related to the metering of contestable customers directly connected to distribution systems are provided under Section 4 of the Retail Rules.</u></p>	Clarify that contestable customers within DUs are subject to the metering requirements in the Retail Rules and not the WESM Rules although they are also WESM trading participants. Contestable customers within DUs are subject to the Distribution Code instead of the Grid Code.
Glossary	<u>Contestable Customer (new)</u>	(blank)	<u>An electricity end user that is certified by the ERC as having met the demand threshold for contestability as set out in the Act. Collectively, these end users make up the contestable market.</u>	Definition is provided since the term will be used with the proposal. Definition is from the Retail Rules.

WESM Rules				
Title	Clause	Provision	Proposed Amendment	Rationale
Glossary	Customer	A person who: (a) engages in the activity of purchasing electricity supplied through a transmission or distribution system other than where all that person's electricity requirements are purchased from a Supplier, and (b) registers with the <i>Market Operator</i> in that capacity under clause 2.3.2.	A person who: (a) engages in the activity of purchasing electricity supplied through a transmission or distribution system other than where all that person's electricity requirements are purchased from a Supplier, and (b) registers with the <i>Market Operator</i> in that capacity under clause 2.3.2.	Since contestable customers are registered in the WESM, phrase proposed to be removed is not true.
Glossary	<u>Grid off-take metering point (new)</u>	(blank)	<u>Metering point at a grid at which the settlement quantity of a Contestable Customer connected to a distribution system shall be determined.</u>	Definition is provided since the term will be used in determination of GESQ with the proposal. Definition is from the Retail Rules.
Glossary	<u>Retail Rules (new)</u>	(blank)	<u>The rules promulgated by the DOE governing the integration of retail competition in the operations and governance processes of the WESM and the management of the transactions of Suppliers and Contestable Customers in the WESM, and the operations of the Central Registration Body.</u>	Definition is provided since the term will be used with the proposal. Definition is from the Retail Rules.

Proposed Amendments to the Retail Rules for Clarifications on Retail Market Integration

Retail Rules				
Title	Clause	Provision	Proposed Amendment	Rationale
Defining Gross Energy Settlement Quantities	3.3.3.1	The gross energy settlement quantity determined in accordance with the WESM Rules at each grid off-take metering point for each dispatch interval in the settlement intervals in the billing period shall be allocated among the Trading Participants connected at said grid off-take metering point as specified in Appendix A of these Retail Rules.	(Deleted) The gross energy settlement quantity determined in accordance with the WESM Rules at each grid off-take metering point for each dispatch interval in the settlement intervals in the billing period shall be allocated among the Trading Participants connected at said grid off-take metering point as specified in Appendix A of these Retail Rules.	It is proposed that losses from SSLA be allocated to the DU only. The current process requires the DU to take into account SSLA allocations of contestable customers when charging distribution losses. Allocating SSLA fully to the DU clarifies that the quantities of contestable customers refer only to energy consumption. This clause provides for the allocation of the gross energy settlement quantity, which includes SSLA, to CCs and the DU; hence, the provision is proposed to be deleted.
Defining Gross Energy Settlement Quantities	3.3.3.2	The site specific loss adjustments determined at a grid off-take metering point shall be allocated among the Trading Participants connected at said grid off-take metering point in the proportion that their respective metered quantities bear to the total metered quantities at said grid off-take metering point.	The site specific loss adjustments determined at a grid off-take metering point shall be allocated to the Distribution Utility , among the Trading Participants connected at said grid off-take metering point in the proportion that their respective metered quantities bear to the total metered quantities at said grid off-take metering point.	It is proposed that losses from SSLA be allocated to the DU only. The current process requires the DU to take into account SSLA allocations of contestable customers when charging distribution losses. Allocating SSLA fully to the DU clarifies that the quantities of contestable customers refer only to energy consumption.
Determining the Metered Quantities of	3.3.4	Determining the Metered Quantities of Contestable Customers	Determining the Gross Energy Settlement Metered Quantities of Contestable Customers	Clarify that quantities from the metering data of contestable customers will already be their

Retail Rules				
Title	Clause	Provision	Proposed Amendment	Rationale
Contestable Customers				settlement quantities since SSLA is proposed not to be applied to contestable customers.
Determining the Metered Quantities of Contestable Customers	3.3.4.1	The <i>metered quantity</i> of each <i>Contestable Customer</i> connected to a <i>grid off-take metering point</i> shall be determined as the net metered flows at their respective metering installations associated with such <i>grid off-take metering point</i> , before adjustment for site specific losses.	The <u>gross energy settlement</u> quantity of each <i>Contestable Customer</i> connected to a <i>grid off-take metering point</i> shall be determined as the net metered flows at their respective metering installations associated with such <i>grid off-take metering point</i> , before adjustment for site specific losses.	Clarify that quantities from the metering data of contestable customers will already be their settlement quantities since SSLA is proposed not to be applied to contestable customers.
Determining the Metered Quantities of Contestable Customers	3.3.4.2	The <i>Central Registration Body</i> shall determine the <i>metered quantity</i> of the <i>Contestable Customers</i> at a <i>grid off-take metering point</i> using the meter data provided by the relevant <i>Metering Services Provider</i> and <i>Retail Metering Services Provider</i> to the <i>Central Registration Body</i> in accordance with the <i>billing and settlement timetable</i> .	The <i>Central Registration Body</i> shall determine the <u>gross energy settlement</u> quantity of the <i>Contestable Customers</i> at a <i>grid off-take metering point</i> using the meter data provided by the relevant <i>Metering Services Provider</i> and <i>Retail Metering Services Provider</i> to the <i>Central Registration Body</i> in accordance with the <i>billing and settlement timetable</i> .	Clarify that quantities from the metering data of contestable customers will already be their settlement quantities since SSLA is proposed not to be applied to contestable customers.
Determining the Metered Quantities of Contestable Customers	3.3.4.3	If no meter data is submitted by the relevant <i>Metering Services Provider</i> or <i>Retail Metering Services Provider</i> in accordance with the <i>billing and settlement timetable</i> : a) The <i>Central Registration Body</i> shall determine the <i>metered quantity</i> of a <i>Contestable Customer</i> using that <i>Contestable Customer's</i> historical load	If no meter data is submitted by the relevant <i>Metering Services Provider</i> or <i>Retail Metering Services Provider</i> in accordance with the <i>billing and settlement timetable</i> : a) The <i>Central Registration Body</i> shall determine the <u>gross energy settlement</u> quantity of a <i>Contestable Customer</i> using that <i>Contestable</i>	Clarify that quantities from the metering data of contestable customers will already be their settlement quantities since SSLA is proposed not to be applied to contestable customers.

Retail Rules				
Title	Clause	Provision	Proposed Amendment	Rationale
		<p>profiles, and the <i>metered quantity</i> so determined shall be used for determining the <i>Contestable Customer's</i> settlement quantities for the billing period.</p> <p>b) Upon provision by the <i>Metering Services Provider or Retail Metering Services Provider</i> of the meter data, a settlement revision shall be performed on the succeeding billing period using the metered quantities based on the meter data so provided.</p> <p>c) The <i>Central Registration Body</i> shall develop and publish the methodologies and procedures for determining <i>metered quantity</i> by using historical load profiles.</p>	<p><i>Customer's</i> historical load profiles, and the <u>gross energy settlement</u> quantity so determined shall be used for determining the <i>Contestable Customer's</i> settlement quantities for the billing period.</p> <p>b) Upon provision by the <i>Metering Services Provider or Retail Metering Services Provider</i> of the meter data, a settlement revision shall be performed on the succeeding billing period using the <u>gross energy settlement</u> quantities based on the meter data so provided.</p> <p>c) The <i>Central Registration Body</i> shall develop and publish the methodologies and procedures for determining <u>gross energy settlement</u> quantity by using historical load profiles.</p>	
Determining the Trading Amounts of Suppliers	3.3.8	The <i>trading amount</i> of each <i>Supplier</i> for each <i>settlement interval</i> in the billing period shall be the sum of all the <i>trading amounts</i> determined for each of the <i>Contestable Customers</i> for which such the <i>Supplier</i> is transacting as <i>Direct WESM Member counterparty</i> .	The <i>trading amount</i> of each <i>Supplier</i> for each <i>settlement interval</i> in the billing period shall be <u>its trading amount calculated in accordance with the WESM Rules clause 3.13.11.2</u> plus the sum of all the <i>trading amounts</i> determined for each of the <i>Contestable Customers</i> for which such the <i>Supplier</i> is transacting as <i>Direct WESM Member counterparty</i> .	Clarify that suppliers can have trading amounts calculated in accordance with the WESM Rules. The trading amounts would be from bilateral contract declarations directly to the suppliers.
Determining Settlement Amounts	3.3.9.1	For each billing period, the settlement amount for each <i>Supplier</i> shall be:	For each billing period, the settlement amount for each <i>Supplier</i> shall be:	Reflect proposed change to clause 3.3.8. Since trading amounts of contestable customers are already

Retail Rules				
Title	Clause	Provision	Proposed Amendment	Rationale
		<p>The sum of the aggregate <i>trading amounts</i> of all the <i>Contestable Customers</i> for which it is transacting as <i>Direct WESM Member counterparty</i>; any market fees and transaction fees which the <i>Supplier</i> and its <i>Contestable Customers</i> are required to pay to the <i>Market Operator</i> and the <i>Central Registration Body</i>; and any other amounts payable to the <i>Market Operator</i> or the <i>Central Registration Body</i> by the <i>Supplier</i> and its <i>Contestable Customers</i>;</p> <p>XXX</p>	<p>The sum of the aggregate <i>trading amounts</i> <u>determined in accordance with clause 3.3.8 of all the Contestable Customers</u> for which it is transacting as <i>Direct WESM Member counterparty</i>; any market fees and transaction fees which the <i>Supplier</i> and its <i>Contestable Customers</i> are required to pay to the <i>Market Operator</i> and the <i>Central Registration Body</i>; and any other amounts payable to the <i>Market Operator</i> or the <i>Central Registration Body</i> by the <i>Supplier</i> and its <i>Contestable Customers</i>;</p> <p>XXX</p>	<p>aggregated to the supplier per interval then the monthly settlement amount of a supplier may simply be stated as the aggregate of its per interval trading amounts.</p>
Provision of Metering Installations	4.3.1.2	<p>Comply in all respects with the requirements of Chapter 8 of the <i>Distribution Code</i> relating to unbundled service, to the <i>WESM Rules</i>, and relevant <i>market manual</i> being implemented by the <i>Central Registration Body</i>.</p>	<p>Comply in all respects with the requirements of Chapter 8 of the <i>Distribution Code</i> relating to unbundled service, to the <i>WESM Rules</i>, <u>relevant regulatory issuances</u>, and relevant <i>market manual</i> being implemented by the <i>Central Registration Body</i>.</p>	<p>Clarify that metering provisions from regulatory issuances would also apply to the Retail Market</p>
Provision of Metering Installations	4.3.2	<p>A <i>metering installation</i> shall:</p> <p>4.3.2.1 Be registered in the <i>WESM</i> through the <i>Central Registration Body</i>;</p> <p>4.3.2.2 Be accurate in accordance with this Chapter 4, the <i>Grid Code</i>, the <i>Distribution Code</i> and the <i>WESM Rules</i> and relevant <i>Market manuals</i>;</p>	<p>A <i>metering installation</i> shall:</p> <p>4.3.2.1 Be registered in the <i>WESM</i> through the <i>Central Registration Body</i>; <u>and</u></p> <p>4.3.2.2 Be accurate in accordance with this Chapter 4, the <i>Grid Code</i>, the</p>	<p>Clarify that retail metering installations are only required to comply with existing issuances (e.g., PDC, ERC resolutions). The retail market, however, additionally requires that metering data is available on a per dispatch interval basis.</p>

Retail Rules				
Title	Clause	Provision	Proposed Amendment	Rationale
		<p>XXX</p> <p>4.3.2.9 Have an active energy meter, and, if required in accordance with the <i>Grid Code</i> or <i>Distribution Code</i>, a reactive energy meter having an internal data logger.</p>	<p><i>Distribution Code</i> and the <i>WESM Rules</i> and relevant <i>Market manuals</i>;</p> <p>XXX</p> <p>4.3.2.62 Have electronic data recording facilities such that all metering data can be measured and recorded in accordance with the relevant <i>Market Manual</i> <u>each dispatch interval</u>;</p> <p>XXX</p> <p>4.3.2.9 Have an active energy meter, and, if required in accordance with the <i>Grid Code</i> or <i>Distribution Code</i>, a reactive energy meter having an internal data logger.</p>	
Meter Accuracy	4.3.3	The class of <i>metering installation</i> and the accuracy requirements for a metering point shall be as set out in the relevant <i>Market manual</i> and in accordance with the <i>Grid Code</i> , and the <i>Distribution Code</i> .	The class of <i>metering installation</i> and the accuracy requirements for a metering point shall be as set out in the relevant <i>Market manual</i> and in accordance with the <i>Grid Code</i> , and the <i>Distribution Code</i> .	Since this chapter only applies to contestable customers within DUs, their metering installations are only required to comply with the PDC. Contestable customers that are directly connected to the grid are covered by the WESM Rules.
Security of Metering Equipment	4.3.5	The <i>Retail Metering Services Provider</i> shall use reasonable endeavors to protect the <i>metering installation</i> from unauthorized interference, both intentional and inadvertent, by providing secure housing for metering	The <i>Retail Metering Services Provider</i> shall <u>comply with the <i>Philippine Distribution Code</i> with regard to the security of metering equipment.</u> use reasonable endeavors to protect the <i>metering installation</i> from unauthorized	Clarify that retail metering installations are only required to comply with existing issuances (e.g., PDC, ERC resolutions).

Retail Rules				
Title	Clause	Provision	Proposed Amendment	Rationale
		equipment or otherwise ensuring that security at the metering point is adequate to protect against such interference.	interference, both intentional and inadvertent, by providing secure housing for metering equipment or otherwise ensuring that security at the metering point is adequate to protect against such interference.	
Security of Metering Data Held in a Metering Installation	4.3.6	The <i>Retail Metering Services Provider</i> shall ensure that <i>metering data</i> held in a <i>metering installation</i> is protected from local or remote electronic access or manipulation of data by the installation of suitable security electronic access controls.	The <i>Retail Metering Services Provider</i> shall <u>comply with the Philippine Distribution Code with regard to the security of metering data.</u> ensure that <i>metering data</i> held in a <i>metering installation</i> is protected from local or remote electronic access or manipulation of data by the installation of suitable security electronic access controls.	Clarify that retail metering installations are only required to comply with existing issuances (e.g., PDC, ERC resolutions).
Performance of Metering Installations	4.3.7.1	The <i>Retail Metering Services Provider</i> shall use all reasonable endeavours to ensure that <i>metering data</i> is capable of being transmitted to the metering database from its <i>metering installations</i> : a) Within the applicable accuracy parameters described in the <i>Grid Code</i> , the <i>Distribution Code</i> and relevant <i>market manual</i> ; and XXX	The <i>Retail Metering Services Provider</i> shall use all reasonable endeavours to ensure that <i>metering data</i> is capable of being transmitted to the metering database from its <i>metering installations</i> : a) Within the applicable accuracy parameters described in the <i>Grid Code</i> , the <i>Distribution Code</i> and relevant <i>market manual</i> ; and XXX	Since this chapter only applies to contestable customers within DUs, their metering installations are only required to comply with the PDC. Contestable customers that are directly connected to the grid are covered by the WESM Rules.
Data Transfer and Collection	4.4.2.3	The <i>Retail Metering Services Provider</i> must be capable of sending <i>metering</i>	The <i>Retail Metering Services Provider</i> must be capable of sending <i>metering</i>	It is proposed that the requirement be simplified. The RMSP may

Retail Rules				
Title	Clause	Provision	Proposed Amendment	Rationale
		<i>data</i> in the required format to the <i>Central Registration Body</i> and must have its own meter data retrieval system compatible with the <i>Central Registration Body</i> meter data collection system.	<i>data</i> in the required format to the <i>Central Registration Body</i> and must have its own meter data retrieval system compatible with the <i>Central Registration Body</i> meter data collection system.	employ any meter data retrieval system as long as the RMSP is able to submit metering data at the required format to the CSB.
Formulation and Publication of Market Manual	4.9	The <i>Central Registration Body</i> shall formulate and publish a <i>market manual</i> that: 4.9.1 Describes the class and accuracy requirements; XXX	The <i>Central Registration Body</i> shall formulate and publish a <i>market manual</i> that: 4.9.1 Describes the class and accuracy requirements of meters metering installations consistent with the <u>Distribution Code and relevant regulatory issuances</u> ; XXX	Clarify that retail metering installations are only required to comply with existing issuances (e.g., PDC, ERC resolutions).
Allocation of Gross Energy Settlement Quantities	Appendix A.3	A.3 ALLOCATION OF GROSS ENERGY SETTLEMENT QUANTITIES The gross energy settlement quantities for determined at the grid off-take metering point shall be allocated among the Contestable Customers and Distribution Utilities connected at said grid off-take metering point in proportion that their respective metered quantities bear to the total metered quantities at the said grid off-take metering point.	A.3 (DELETED) ALLOCATION OF GROSS ENERGY SETTLEMENT QUANTITIES The gross energy settlement quantities for determined at the grid off-take metering point shall be allocated among the Contestable Customers and Distribution Utilities connected at said grid off-take metering point in proportion that their respective metered quantities bear to the total metered quantities at the said grid off-take metering point.	Reflect proposed deletion of Clause 3.3.3.1 related to the allocation of SSLA to distribution utilities only.

Retail Rules				
Title	Clause	Provision	Proposed Amendment	Rationale
		XXX	XXX	
Determination of the Metered Quantities for Distribution Utilities		<p>A.4 DETERMINATION OF THE METERED QUANTITIES FOR DISTRIBUTION UTILITIES</p> <p>The <i>metered quantities for Distribution Utilities</i> is calculated based on the difference of the <i>metered quantities</i> at the grid off-take metering point</p> $MQ_{du,i}^m = MQ_i^m - \sum_{cc} MQ_{cc,i}^m$ <p>Where:</p> <p>$MQ_{du,i}^m$ is the <i>metered quantity of Distribution Utility “du” for dispatch interval “i” and grid off-take metering point “m”</i>;</p> <p>$MQ_{cc,i}^m$ is the <i>metered quantity of Contestable Customer “cc” for dispatch interval “i” and grid off-take metering point “m”</i>;</p>	<p>A.4 DETERMINATION OF THE GROSS ENERGY SETTLEMENT QUANTITIES FOR DISTRIBUTION UTILITIES</p> <p>The <u><i>gross energy settlement quantities for Distribution Utilities</i></u> is calculated based on the difference of the <u><i>gross energy settlement quantities</i></u> at the grid off-take metering point</p> $GESQ_{du,i}^m = GESQ_i^m - \sum_{cc} GESQ_{cc,i}^m$ <p>Where:</p> <p>$GESQ_{du,i}^m$ is the <u><i>gross energy settlement quantity of Distribution Utility “du” for dispatch interval “i” and grid off-take metering point “m”</i></u>;</p> <p>$GESQ_{cc,i}^m$ is the <u><i>gross energy settlement quantity of</i></u></p>	<p>Reflect proposed deletion of Clause 3.3.3.1 related to the allocation of SSLA to distribution utilities only. Deduction of the gross energy settlement quantities of contestable customers, which are equivalent to their metered quantities, from the gross energy settlement quantity of the grid-offtake metering point would allocate all SSLA to the distribution utility.</p>

Retail Rules				
Title	Clause	Provision	Proposed Amendment	Rationale
		$\sum_{cc} MQ_{cc,i}^m$ is the summation of the metered quantity of each Contestable Customer "cc" in dispatch interval "i" and market trading node "m" associated with the grid off-take metering point "m";	$\sum_{cc} GESQ_{cc,i}^m$ is the summation of the <u>gross energy settlement</u> quantity of each Contestable Customer "cc" in dispatch interval "i" and market trading node "m" associated with the grid off-take metering point "m";	

**Proposed Amendments to the Retail Manual on Metering Standards and Procedures Issue 2.0 for
Clarifications on Retail Market Integration**

Retail Manual on Metering Standards and Procedures Issue 2.0				
Title	Section	Provision	Proposed Amendment	Rationale
Purpose	1.1	<p>Pursuant to Clause 4.9 of the <i>Retail Rules</i>, the <i>Central Registration Body</i> shall formulate and <i>publish a market manual</i> that:</p> <p>a) Describes the class and accuracy requirements of <i>meters</i>;</p> <p>XXX</p>	<p>Pursuant to Clause 4.9 of the <i>Retail Rules</i>, the <i>Central Registration Body</i> shall formulate and <i>publish a market manual</i> that:</p> <p>a) Describes the class and accuracy requirements of meters <u>metering installations consistent with the Distribution Code and relevant regulatory issuances</u>;</p> <p>XXX</p>	Clarify that retail metering installations are only required to comply with existing issuances (e.g., PDC, ERC resolutions).
Overview	2.2	<p>a) A <i>metering installation</i> shall be accurate in accordance with the <i>Retail Rules</i>, the <i>Philippine Grid Code</i>, the <i>Philippine Distribution Code</i>, the <i>WESM Rules</i> and this Manual.</p> <p>b) A <i>metering installation</i> shall be secured.</p> <p>XXX</p> <p>h) A <i>metering installation</i> shall have an active energy meter, and, if required in accordance with the <i>Philippine Grid Code</i> or <i>Philippine Distribution Code</i>, a reactive energy meter having an internal data logger.</p>	<p>a) A <i>metering installation</i> shall be accurate in accordance with the <i>Retail Rules</i>, the Philippine Grid Code, the <i>Philippine Distribution Code</i>, the <i>WESM Rules</i> and this Manual.</p> <p>b) A metering installation shall be secured.</p> <p>XXX</p> <p>gb) A <i>metering installation</i> shall have electronic data recording facilities such that all metering data can be measured and recorded in <u>each dispatch interval</u>.</p>	Reflect proposed changes to Retail Rules Clause 4.3.2. The proposal aims to clarify that retail metering installations are only required to comply with existing issuances (e.g., PDC, ERC resolutions). The retail market, however, additionally requires that the metering data is available on a per dispatch interval basis.

Retail Manual on Metering Standards and Procedures Issue 2.0				
Title	Section	Provision	Proposed Amendment	Rationale
			h) A metering installation shall have an active energy meter, and, if required in accordance with the <i>Philippine Grid Code</i> or <i>Philippine Distribution Code</i>, a reactive energy meter having an internal data logger.	
Meters – Technical Requirements	2.4.2	<i>Meters</i> , both installed as the main revenue <i>meter</i> and backup revenue <i>meter</i> , shall meet the minimum requirements listed in Table 1.	<i>Meters</i> , both installed as the main revenue <i>meter</i> and backup revenue <i>meter</i> , shall meet the minimum requirements <u>provided under the <i>Distribution Code</i></u> listed in Table 1.	Specific requirements are proposed to be deleted from the Retail Metering Manual and only refer to the PDC. This would ensure that the retail market requirements are harmonized with the PDC at all times.
Meters – Technical Requirements	2.4.2 Table 1	Table 1. Minimum Technical Requirements for Main and Backup Revenue Meters XXX	Table 1. Minimum Technical Requirements for Main and Backup Revenue Meters XXX	Specific requirements are proposed to be deleted from the Retail Metering Manual and only refer to the PDC. This would ensure that the retail market requirements are harmonized with the PDC at all times.
Meters – Communication Links	2.4.3	2.4.3. Communication Links The communication link to be installed shall be a dedicated line (landline or wireless) solely for the <i>metering</i> of the <i>Retail Metering Services Provider</i> .	2.4.3. Communication Links The communication link to be installed shall be a dedicated line (landline or wireless) solely for the <i>metering</i> of the <i>Retail Metering Services Provider</i>.	Specific requirements are proposed to be deleted from the Retail Metering Manual and only refer to the PDC. This would ensure that the retail market requirements are harmonized with the PDC at all times.
Instrument Transformers	2.5	This section provides the standards for <i>instrument transformers</i> located within the <i>metering installation</i> . With adherence to these standards, a <i>metering installation</i> shall be able to	<u><i>Voltage transformers and current transformers within the metering installations shall meet the minimum requirements provided under the <i>Distribution Code</i>.</i></u>	Specific requirements are proposed to be deleted from the Retail Metering Manual and only refer to the PDC. This would ensure that the retail market requirements are harmonized with the PDC at all times.

Retail Manual on Metering Standards and Procedures Issue 2.0				
Title	Section	Provision	Proposed Amendment	Rationale
		fully or partially comply with <i>Retail Rules</i> Clause 4.3.2.	This section provides the standards for instrument transformers located with the metering installation. With adherence to these standards, a metering installation shall be able to fully or partially comply with <i>Retail Rules</i> Clause 4.3.2.	
Instrument Transformers	2.5.1 to 2.5.4	2.5.1 General Requirement XXX 2.5.2 Use of Instrument Transformers XXX 2.5.4.3.2.2 Voltage Transformers Burden Calculation XXX	2.5.1 General Requirement XXX 2.5.2 Use of Instrument Transformers XXX 2.5.4.3.2.2 Voltage Transformers Burden Calculation XXX	Specific requirements are proposed to be deleted from the Retail Metering Manual and only refer to the PDC. This would ensure that the retail market requirements are harmonized with the PDC at all times.
Safety Requirements and Grounding System	2.5.5	2.5.5 Safety Requirements and Grounding System A <i>metering installation</i> shall conform to the requirements of: a) Philippine Electrical Code; and b) The IEC or ANSI/IEEE C57.13-1983 IEEE Guide for Grounding of Instrument Transformer Secondary Circuits and Cases.	2.5.5 2.6 Safety Requirements and Grounding System A <i>metering installation</i> shall conform to the <u>safety and grounding system</u> requirements of <u>the Distribution Code</u> . a) Philippine Electrical Code; and b) The IEC or ANSI/IEEE C57.13-1983 IEEE Guide for Grounding of Instrument Transformer Secondary Circuits and Cases.	Specific requirements are proposed to be deleted from the Retail Metering Manual and only refer to the PDC. This would ensure that the retail market requirements are harmonized with the PDC at all times.

Retail Manual on Metering Standards and Procedures Issue 2.0				
Title	Section	Provision	Proposed Amendment	Rationale
Instrument Transformers – Technical Specifications	2.5.6 to 2.5.8	2.5.6 Technical Specifications	2.5.6 Technical Specifications	Specific requirements are proposed to be deleted from the Retail Metering Manual and only refer to the PDC. This would ensure that the retail market requirements are harmonized with the PDC at all times.
		XXX	XXX	
		2.5.7 Primary Connections	2.5.7 Primary Connections	
		XXX	XXX	
		2.5.8 Secondary Connections	2.5.8 Secondary Connections	
		XXX	XXX	
Security of Metering Installations and Data	2.6	2.5.8.2 Codes and Conditions	2.5.8.2 Codes and Conditions	Specific requirements are proposed to be deleted from the Retail Metering Manual and only refer to the PDC. This would ensure that the retail market requirements are harmonized with the PDC at all times.
		XXX	XXX	
		2.6 SECURITY OF METERING INSTALLATIONS AND DATA	2.6 2.7 SECURITY OF METERING INSTALLATIONS AND DATA	
		This section provides the security standards for <i>metering installations</i> and its <i>metering data</i> . With adherence to these standards, a <i>metering installation</i> shall be able to fully or partially comply with <i>Retail Rules</i> Clause 4.3.2.3.	<u>Metering installations shall meet the minimum security requirements listed in the Distribution Code.</u>	
		XXX	This section provides the security standards for <i>metering installations</i> and its <i>metering data</i>. With adherence to these standards, a <i>metering installation</i> shall be able to fully or partially comply with <i>Retail Rules</i> Clause 4.3.2.3.	
		2.6.2 Metering Data Security	2.6.2 Metering Data Security	
		XXX	XXX	

Retail Manual on Metering Standards and Procedures Issue 2.0				
Title	Section	Provision	Proposed Amendment	Rationale
			XXX	
Redundant Metering Installation	2.7	2.7 REDUNDANT METERING INSTALLATION XXX	2.7 REDUNDANT METERING INSTALLATION XXX	Specific requirements are proposed to be deleted from the Retail Metering Manual and only refer to the PDC. This would ensure that the retail market requirements are harmonized with the PDC at all times.