

MINUTES OF RULES CHANGE COMMITTEE Regular Meeting No. 2016-05	
<b>Meeting Date &amp; Time:</b>	30 March 2016, 9:00AM to 4:00PM
<b>Meeting Venue:</b>	16/F Training Rooms 1&2, Robinsons Equitable Tower, Ortigas Center, Pasig City
Attendance List	
In-Attendance	Not In-Attendance
<b>Rules Change Committee</b>  <b>Principal Members:</b>  Maila Lourdes G. de Castro, Chairperson--Independent Francisco Leodegario R. Castro, Jr., Member--Independent Concepcion I. Tanglao, Member--Independent Allan C. Nerves, Member --Independent Joselyn D. Carabuena, Member -- Generation (PSALM) Jose Ferlino P. Raymundo -- Generation (SMC Global) Jose P. Santos, Member--Distribution (INEC) Ludovico D. Lim, Member -- DU (ANTECO) Lorreto H. Rivera, Member --Supply (TPEC) Ambrocio R. Rosales, Member --System Operator (NGCP) Isidro E. Cacho, Jr., Member -- Market Operator (PEMC)	
<b>PEMC -- Market Assessment Group (MAG)</b>  Chrysanthus S. Heruela Elaine D. Gonzales Geraldine A. Rodriguez Divine Gayle C. Cruz Aldjon Kenneth M. Yap  <b>PEMC -- Legal</b>  Atty. Sheryll M. Dy  <b>PEMC -- TOD</b>	



Edward Olmedo

**DOE Observer(s)**

Ferdinand B. Binondo  
 Lorelie Baguio-Moya

**ERC Observer(s)**

Debora Anastacia T. Layugan

There being a quorum, Chairperson Atty. Maila De Castro commenced the meeting at approximately 9:00 AM.

The RCC reviewed the proposed agenda and subsequently approved the same as presented.

**1. Reading, Review and Approval of the Minutes of the 110<sup>th</sup> and 111<sup>th</sup> RCC Meeting**

The RCC reviewed and approved the minutes of the 110<sup>th</sup> and 111<sup>th</sup> RCC Meetings held on 02 and 03 March 2016, respectively, as amended.

**2. Matters Arising from the Previous Meetings**

**2.1. Proposed Amendments to the Dispatch Protocol Manual Issue 11**

As background and to facilitate the deliberations, the Secretariat presented to the RCC the summary of various proposals to amend the Dispatch Protocol Manual ("DP Manual") that have been submitted so far to the RCC, as follows:

	Proponent	Topic of Proposals	
1	PEMC	Proposed Dispatch Protocol Manual Issue 12	<b>Dispatch Protocol Manual Issue 12</b>
2	SNAP/ RCC	Dispatch Tolerance Limit	
3	Petron/ RCC	Cogeneration Facilities	
4	Technical Committee	Market Intervention	





	Proponent	Topic of Proposals	
5	PEMC	Preferential Dispatch ( <i>on-going commenting period</i> )	
<b>Dispatch Protocol Manual Issue 12</b>			
6	PEMC	Implementation of Enhancements to WESM Design and Operations	

Ms. Divine Gayle C. Cruz presented the brief description of each proposal, the chronology of their submission and their respective status as deliberated by the RCC.

Ms. Cruz explained that apart from the above manuals, proposed amendments to the DP Manual in consideration of the changes in the WESM Design and Operations, are expected to soon be submitted by PEMC, which proposal shall be based on the DP Manual Issue 12 to be approved by the RCC. In this regard, the Secretariat recommended to the RCC the prioritization of the discussion of the proposals to the DP Manual as above-mentioned. The RCC agreed that for the time being, the deliberations should focus first on the current structure of the WESM and not consider the ramifications of the impending changes to the market design and operations, which will be submitted at a later date.

Mr. Isidro Cacho, Jr. then led the discussion of the proposed amendments to the Dispatch Protocol Manual, taking off from the comments of the WESM Members (NGCP, MERALCO, Northern Luzon Renewable Energy Corp. and VIVANT) and the Technical Committee (TC) and the TC's own proposed amendments to the section of the DP Manual relating to market intervention. Ms. Geraldine Rodriguez informed the RCC that the Technical Committee's proposal was based on the DP Manual Issue 11, which is the latest approved version, and the Secretariat just placed said proposed amendments of the TC in line with the sections of the proposed DP Manual Issue 12 where they may be considered appropriate for a more efficient flow of discussions.

The TC's global changes on the DP Manual as to style and for enhancements were subsequently adopted by the RCC as follows:

- Usage of 'or' or 'and' instead of slash '/'
- Replacement of "intervention" with "market intervention" in all provisions
- Replacement of "power system" with "grid" in provisions related to the System Operator
- Spelling out of "Market Operator" and "System Operator" instead of "MO" or "SO", respectively

Mr. Ambrocio R. Rosales expounded on the System Operator's comments and proposed amendments, specifically the deletions on the DP Manual. He stated that these deletions and some amendments were recommended considering that these affected provisions were no





longer applicable given the current practices in the grid by the System Operator. Other amendments were made to clarify the SO's responsibilities.

Comments and clarifications from the NGCP, the Technical Committee, MERALCO, North Luzon Renewables Corp. and Vivant were duly considered and noted by the RCC. Atty. De Castro inquired on the way forward in respect to the submitted requests for clarifications. Ms. Rodriguez, replied that sector representatives are expected to then echo to their respective sectors the discussions in the RCC, including the responses to comments raised.

The deliberations on the first half of the proposed amendments to the DP Manual are reflected in Appendices A and B of the minutes of this meeting.

Moreover, Ms. Rodriguez recommended to the RCC that the proposed amendments to the DP Manual with respect to the Dispatch Tolerance and Co-generation facilities be included in the deliberations for the proposed Issue 12 of the DPM. In line with this, the Secretariat presented to the RCC the counter-proposal of the RCC to SNAP's and Petron's proposed amendments in line with the dispatch tolerance standards and cogeneration systems, respectively, as previously agreed upon by the body during its February 2016 meeting. The said counter-proposal was the product of the RCC Sub-committee's discussions with Petron as regards the proposal on cogeneration, and the MO-SO Study and PIPPA's position to the same as regards the dispatch tolerance standards. With respect to the tolerance standards, an upper threshold of 1.5 percent and a lower threshold of 3 percent were agreed. Meanwhile, to address the concerns of the small generators, a deviation of +/- 1MW was also proposed to be accepted. As for the co-generation facilities, the definition of maximum available capacity is proposed to be amended to add that the maximum available capacity of co-gen systems will be net of their load.

Mr. Ferdinand Binondo raised that since the previously agreed amendments to the WESM Rules with respect to the new MMS has yet to be promulgated, and since the proposed amendments are intended to address concerns in the current regime, proper alignment of the provisions with the current version of the WESM Rules should be applied for consistency.

After discussing and revising the draft counter-proposals related to the dispatch tolerance standards and co-generation systems, the RCC then agreed to have them posted for comments of interested WESM Participants. Although both proposals are considered as product of discussions in the sub-committee in coordination with the generator proponents, the RCC deemed that for transparency, these proposals should still be posted. The Secretariat thus duly noted the instructions.



**Agreement/ Action Plans:**

- a) For the RCC to continue deliberations on the proposed amendments to the DP Manual in the next RCC Meeting.
- b) For the Secretariat to publish in the market website the RCC's counter-proposal to the proposed amendments to the Dispatch Protocol Manual related to dispatch tolerance standards and co-generation facilities, to solicit comments from interested parties.

**2.2. Deliberation on the Proposed Amendments to the WESM Manual on Metering Standards and Procedures regarding Site-Specific Loss Adjustment**

- Comments from DOE, PEMC, MERALCO, APC, SNAP and PHILRECA

**Agreement/ Action Plans:**

Deliberation on the subject proposal was deferred for the next meeting.

**2.3. Deliberation on the Proposed Amendments to the WESM Rules regarding BCQ Declaration and Line Rental Calculation**

- Comments from DOE, MERALCO, APC, FirstGen, SNAP and RESA

**Agreement/ Action Plans:**

Deliberation on the subject proposal was deferred for the next meeting.

**3. New Business****3.1. Presentation regarding the proposed Constrained Dispatch Manual**

Mr. Edward Olmedo presented before the RCC the Market Operator's inputs in response to the concerns of WESM Participants on the compensation of generating units.

It will be recalled that PEMC had earlier proposed to include the additional compensation for re-dispatched plants in the MRU Manual but the RCC disapproved the proposal as it is possible that those plants re-dispatched and not in merit were indeed re-dispatched but not necessarily to address security concerns as required to be considered as "MRU". As a way forward, the RCC requested the generators in coordination with PEMC to formulate the appropriate payment mechanism and reflect it in an appropriate manual





125 Following this instruction, Mr. Olmedo said he came out with a new proposed Manual  
126 which included the mechanism of compensation for Constrained-on and Constrained-off  
127 generators and the reporting mechanism for both the Market and System Operators.

## Out of Merit Dispatch

- ❑ Generating units that were dispatched "out-of-merit" are normally captured as must-run units based on the following criteria (effective 11 February 2015)
  - a. Thermal Limits of T/L and Power Equipment
  - b. System Voltage Requirements
  - c. Real Power Balance and Frequency Control



## Issues on Current Implementation of MRU/MSU

- ❑ The System Operator noted that MOTs should not be system-wide, rather should be per grid (or regional) as originally practiced
- ❑ As of now, the "in-merit" constrain-on MW that generators emit are treated as imbalances (differences) from the RTD
  - ❖ Thus, they are paid based on ex-post (RTX)
  - ❖ At times, the ex-post price may not be able to compensate for the action provided by the generator
- ❑ There is currently no mechanism to provide additional compensation for generators that were dispatched "in-merit" based on the "regional MOT"



## Proposal

- ☐ Draft a new WESM Manual that will incorporate all of the following:
  - ❖ Constrain-on
    - MOT
    - Must-Run Units
      - Thermal Limits of T/L and Power Equipment
      - System Voltage Requirement
      - Real Power Balancing and Frequency Control
  - ❖ Constrain-off (Displaced Generator)



## Proposal

- ☐ The proposed payment mechanism shall be as follows:
  - ❖ Constrain-on
    - MOT
      - Ex-Post with Additional Compensation
    - Must-Run Units
      - ✓ GPI with Additional Compensation
      - Thermal Limits of T/L and Power Equipment
      - System Voltage Requirement
      - Real Power Balancing and Frequency Control
  - ❖ Constrain-off (Displaced Generator)
    - Displaced Generation Mechanism



## Reporting Mechanism

- ☐ System Operator
  - ❖ Inform the Market Operator of all re-dispatches (constrain-on and constrain-off) made a day after (D+1)
- ☐ Market Operator
  - ❖ Identify generators that were re-dispatched by the System Operator based on MOT (D+1)
  - ❖ Publish all re-dispatched generators, coming from the System Operator and Market Operator, in the Market Information Website at D+1



## Validations

- ☐ Trading Participants shall report any issues they may have with the published report to the Market Operator within two weeks after the publication of the said report
- ☐ In coordination with the System Operator, evaluate the validity of the issues raised
- ☐ Should it warrant any changes to the initially published report, the Market Operator shall publish a new report within a month after the issue was raised by the Trading Participant

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On Mr. Rosales' clarifications with the pricing, Mr. Olmedo explained that the settlement for the regional MOT will initially be based on the market clearing price. The generator which was dispatched during the interval with respect to its region will then have the right to claim further compensation based on its fuel costs on top of the ex-post price.





Mr. Francisco Castro, Jr. then asked if this proposal is subject for commenting of the WESM Participants since it would be a lot better if inputs from them are incorporated in the discussions. Mr. Olmedo informed the body that the draft new manual was prepared by the MO, in response to the request for the MO to assist in the preparation of the said manual, and said manual if acceptable with the generators shall then be submitted as the proposed manual to address the generator concern. Posting will then commence thereafter.

Mr. Olmedo added that the draft manual shall be submitted to Mr. Theo Sunico through the Secretariat for the review of identified generator-proponent.

**Agreement/ Action Plan:**

For the Secretariat to submit the draft Constrained Dispatch Manual to Mr. Theo Sunico for the generator sector's appropriate action.


**3.2. Proposed Amendments to the WESM Manual on Metering Standards and Procedures Manual on MSP Performance Measurement**


Mr. Renato Afurong from PEMC-Corporate Services Department (BSMD) presented to the RCC the proposal from the Market Operator for a new computation of Metering Services Provider (MSP) rating. The proposal emanated from the discussions with the DOE and NGCP which resulted in the recommendation to adjust the percentage weights of the different performance factors in order to follow the requirements of the Grid Code on the accuracy of monthly meter data and testing of metering installation.


The following were added as new categories for the new MSP rating computation:


- Integrity of Monthly Meter Data
- New Metering Installations – documents that are necessary for this were further enumerated by Mr. Afurong
- Update of Metering Installation Tests



 <b>PROPOSED NEW MSP RATING COMPUTATION</b>				
CATEGORY		PERCENT WEIGHT	PASSING GRADE	PERCENT EQUIVALENT
Service Delivery - Daily	Daily Meter Data Delivery	10 %	95	9.50 %
	Integrity of Daily Meter Data	15 %	95	14.25 %
	Timely Resolution to the Daily Meter Trouble Report	10 %	90	9.00 %
Service Delivery - Monthly	Timeliness of Monthly Meter Data Delivery	10 %	100	10.00 %
	Integrity of Monthly Meter Data	20 %	95	19.00 %
	Timely Resolution to the Monthly Meter Trouble Report	10 %	90	9.00 %
Metering Installations Compliance	New Metering Installations	5 %	100	5.00 %
	Compliance of Metering Installation Terms	10 %	90	9.00 %
Customer Satisfaction	Customer Satisfaction Rating	10 %	90	9.00 %
OVERALL PASSING				93.50 %



 <b>DAILY SERVICE DELIVERY FORMULA</b>	
$\% \text{Daily Meter Data Delivery} = \left( \frac{\text{Total MI's Meter Data Received}}{\text{Total Active Metering Installations}} \right) \times 10\%$	
$\% \text{Integrity of Daily Meter Data} = \left( \frac{\text{Total MI passed the Daily Validation}}{\text{Total MI's Meter Data Received}} \right) \times 15\%$	
$\% \text{Timely Resolution to the Daily MTR} = \left( \frac{\text{Resolved Daily MTR}}{\text{Total Daily MTR Issued}} \right) \times 10\%$	








## MONTHLY SERVICE DELIVERY FORMULA

$$\% \text{Timeliness of Monthly Meter Data Delivery} = \left( \frac{\text{Total MI's Meter Data Received}}{\text{Total Active Metering Installations}} \right) \times 10\%$$

$$\% \text{Integrity of Monthly Meter Data} = \left( \frac{\text{Total MI passed the Monthly Validation}}{\text{Total Active Metering Installations}} \right) \times 20\%$$

$$\% \text{Timely Resolution to the Monthly MTR} = \left( \frac{\text{Resolved Monthly MTR}}{\text{Total Monthly MTR Issued}} \right) \times 10\%$$



## METERING INSTALLATIONS COMPLIANCE

(a) **NEW METERING INSTALLATIONS** - Before a metering installation is energized, the Metering Services Provider shall register the metering facility and submit complete documents as listed below:

1. Accomplished Metering Installation Registration Form (MIRF)
2. Single Line Diagram (SLD)
3. ERC Meter Test Certification/MSP Meter Test
4. Current Transformer Tests
5. Potential Transformer Tests

It is rated 100% for complete documentation and approval prior to energize of new metering installation and shall be calculated monthly using the formula below:

$$\% \text{New Metering Installation} = \left( \frac{\text{Energized MI with approved documentations}}{\text{Total New MI for the month}} \right) \times 5\%$$




**METERING INSTALLATIONS COMPLIANCE**

**(b) UPDATE OF METERING INSTALLATIONS TEST** - To ensure accuracy of meter data, the Metering Services Provider shall perform accuracy test in accordance with the Section 8.4 of the Philippine Grid Code. All registered main and backup meters shall be re-tested annually and every 5 years for all instrument transformers.

Required result shall be greater than or equal to 90% as reported and shall be calculated monthly using the formula below:

$$\% \text{Updated MI Test} = \left( \frac{\text{Total MI Tested}}{\text{Total number of MI for Test Update}} \right) \times 10\%$$



The RCC approved the posting of the proposal as presented to solicit comments from interested WESM Participants.

<b>Agreement/ Action Plan:</b>
<p>Per the approval of the RCC, for the Secretariat to facilitate the posting the proposal as presented to solicit comments from interested WESM Participants.</p>

#### 4. Next Meeting


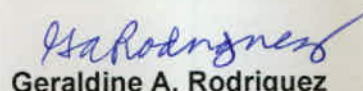
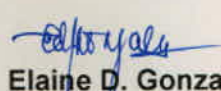
The RCC set its Regular Meeting No. 2016-06 on **27 April 2016, Wednesday @ 9 AM** and its Special Meeting No. 2016-07 on **28 April 2016, Thursday @ 9 AM** to continue the deliberations to the DP Manual and other deferred topics.

#### 5. Adjournment

There being no other matter to be discussed, the meeting was adjourned at 5:00 PM.






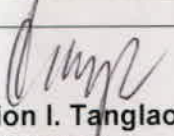
Prepared By:	Reviewed By:	Noted By:
 <b>Divine Gayle C. Cruz</b>	 <b>Geraldine A. Rodriguez</b>	 <b>Elaine D. Gonzales</b>
<b>Analyst – Market Governance Administration Unit</b>	<b>Assistant Manager – Market Governance Administration Unit</b>	<b>Manager – Market Data and Analysis Division</b>
<b>Market Assessment Group</b>	<b>Market Assessment Group</b>	<b>Market Assessment Group</b>

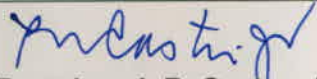



Approved by:  
RULES CHANGE COMMITTEE


  
**Maila Lourdes G. de Castro**  
 Chairperson  
 Independent

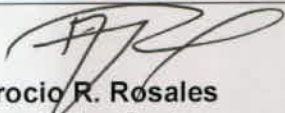
Members:


  
**Concepcion I. Tanglao**  
 Independent


  
**Francisco L.R. Castro, Jr.**  
 Independent

  
**Allan C. Nerves**  
 Independent

  
**Isidro E. Cacho, Jr.**  
 Market Operator  
 Philippine Electricity Market Corporation  
 (PEMC)

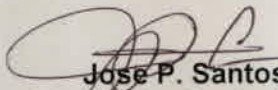
  
**Ambrocio R. Rosales**  
 Transmission Sector  
 National Grid Corporation of the Philippines  
 (NGCP)

  
**Joselyn D. Carabuena**  
 Generation Sector  
 Power Sector Assets and Liabilities Management  
 Corporation (PSALM)

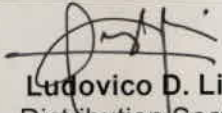
  
**Jose Ferlino P. Raymundo**  
 Generation Sector  
 SMC Global

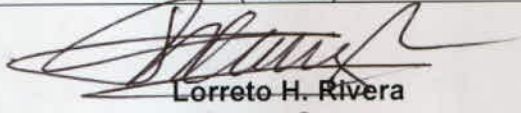
**Theo C. Sunico**  
 Generation Sector  
 Vivant Corporation

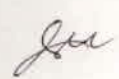
**Ciprinilo C. Meneses**  
 Distribution Sector (PDU)  
 Manila Electric Company  
 (MERALCO)

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

**Gilbert A. Pagobo**  
 Distribution Sector  
 Mactan Electric Company  
 (MECO)

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

  
**Lorreto H. Rivera**  
 Supply Sector  
 Team (Philippines) Energy Corporation  
 (TPEC)





## APPENDIX A

RCC-MIN-16-05  
30 March 2016

Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
			<p>Since the proposed Issue 12 of the DP Manual overhauls the current Issue 11, the RCC agreed to prioritize Issue 12 as the basis of the deliberations. The RCC also agreed that if certain provisions from Issue 11 are no longer adopted in the proposed Issue 12, any substantial comments to the former will not be considered anymore.</p> <p>Also, The TC's global changes on the DP Manual as to style and for enhancements were subsequently adopted by the RCC as follows:</p> <ul style="list-style-type: none"> <li>• Usage of 'or' or 'and' instead of slash '/'</li> <li>• Replacement of "intervention" with "market intervention" in all provisions</li> <li>• Replacement of "power system" with "grid" in provisions related to the System Operator</li> <li>• Spelling out of "Market Operator" and "System Operator" instead of "MO"</li> </ul>	



Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
			or "SO", respectively	
3.2 System Operator	3.2.1 The System Operator shall be responsible for and shall operate the power system in accordance with the WESM Rules, the Grid Code and the dispatch schedule communicated by the Market Operator. Its primary responsibilities include providing central dispatch to all generation facilities and loads connected, directly and indirectly, to the transmission system in accordance with the dispatch schedule submitted by the Market Operator (WESM Rules section 1.3.3).	<p><u>From the SO:</u></p> <p>3.2.1 The System Operator shall be responsible for <u>the implementation of the dispatch schedule as provided by the Market Operator on an hourly basis</u> and shall operate the power system in accordance with the WESM Rules, the Grid Code and <u>other related rules in relation to the security and reliability guidelines</u>. <del>the dispatch schedule communicated by the Market Operator.</del> Its primary responsibilities include providing central dispatch to all generation facilities and loads connected, directly and indirectly, to the transmission system in accordance with the dispatch schedule submitted by the Market Operator (WESM Rules section 1.3.3).</p>	The RCC agreed to adopt the SO's comments, for clarity.	3.2.1 The System Operator shall be responsible for <u>the implementation of the dispatch schedule as provided by the Market Operator on an hourly basis</u> and shall operate the power system in accordance with the WESM Rules, the Grid Code and <u>other related rules in relation to the security and reliability guidelines</u> . <del>the dispatch schedule communicated by the Market Operator.</del> Its primary responsibilities include providing central dispatch to all generation facilities and loads connected, directly and indirectly, to the transmission system in accordance with the dispatch schedule submitted by the Market Operator (WESM Rules section 1.3.3).
	3.2.3 The System Operator is responsible for the development of Procedures, Processes and Systems relevant to its functions contained in this Market Manual. Also, the System Operator shall inform the	<p><u>From the SO:</u></p> <p>3.2.3 The System Operator <u>in coordination with the Market Operator</u> is responsible for the development of Procedures, Processes and Systems relevant to its functions contained in this Market Manual. <del>Also, the System Operator shall inform the Market Operator any changes to its internal processes that will affect this manual.</del></p>	Mr. Rosales commented that the SO should not be the one to initiate the 'development' of WESM processes and procedures. The only time the SO should coordinate with the MO as regards revisions to the Manual is if its own internal	3.2.3 The System Operator is responsible for the development of Procedures, Processes and Systems relevant to its functions contained in this Market Manual. <b>Also, the System Operator shall regularly</b>



Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
	Market Operator any changes to its internal processes that will affect this manual.		<p>procedures are not aligned with WESM procedures. Should the SO need to change its internal procedures that might affect the market, then it should coordinate with the MO to effect appropriate changes to the Manual.</p> <p>Mr. Cacho clarified that Section 3.1.1 already stipulates that the MO is responsible for the regular review of the Manual, as it should. What the subject provision intends to state is the obligation of the SO to propose revisions to the Manual brought by changes to its relevant internal procedures. Atty. De Castro then suggested re-wording the original provision, to which the body agreed.</p>	review its internal process to ensure consistency with this manual. <del>Inform the Market Operator any changes to its internal processes that will affect this manual.</del>
3.3 Trading Participants And Other WESM Members	3.3.1 All trading participants and other WESM members shall comply with the timetable and procedures for scheduling and dispatch that are set out in this Dispatch Protocol as such procedures apply to them. They shall ensure that their respective internal processes, systems and infrastructure, as well as their protocols with their	<p><b><u>From the TC's proposed amendments to the DP Manual 11 version:</u></b></p> <p>3.4 The Trading Participants will –</p> <p><b><u>(a)</u></b> Comply with all the directives given by <i>System Operator</i> regarding steps to follow to ensure reliable operations and remedy the <del>cause/s</del> <b><u>cause(s)</u></b> of the <i>market intervention</i> or <b><u>market</u></b> suspension.</p> <p>Comply with the directives given by the <i>Market Operator</i> regarding steps to follow during the restoration of the market.</p>	The RCC agreed to adopt the original proposed provision.	3.3.1 All trading participants and other WESM members shall comply with the timetable and procedures for scheduling and dispatch that are set out in this Dispatch Protocol as such procedures apply to them. They shall ensure that their respective internal processes, systems and infrastructure, as well as their protocols with their

Title	Provisions from Proposed DPM 12	Comments			RCC Discussion (30 Mar 2016)	RCC-approved Provision
	counterparties, are compliant with this Dispatch Protocol.					counterparties, are compliant with this Dispatch Protocol.
4.3 Week-Ahead Market Projection (WAP)	Please refer to <b>ANNEX I</b>	<p><b>From the SO:</b></p> <p><u>Refer to :</u> <u>TIME: Before 0855H</u></p> <p>Retrieve Other Information from SO re:</p> <ol style="list-style-type: none"> <li>1. <del>Reserve Requirements</del></li> <li>2. Outage Schedules(<b>Plants</b>)</li> <li>3. Transmission Limits</li> <li>4. <del>Security Limits</del></li> <li>5. <u>Overriding Constraint Limits</u></li> </ol> <p><u>Refer to :</u> <u>TIME: 0900H to 1700H</u></p> <p>WAP Results Analysis and <u>Coordination with SO</u></p>	<p><b>From the TC:</b></p> <p>In the WAP, SO does not provide Reserve Requirements to MO</p>	<p><b>From NLREC:</b></p> <p><i>Proposes to include or clarify in the DAP and WAP time table of NRE-IER the following:</i></p> <ol style="list-style-type: none"> <li>1. <i>Submission of NRE-IER Generation Forecast from NRE-IER to the SO (prescribed in SD 7.3.2.6 of the PGC).</i></li> <li>2. <i>Upon validation, the transmittal of the final NRE-IER Generation Forecast from the SO to the NRE-IER for provision as nomination for the projected output to the MO. (prescribed in SD 7.3.2.7 of the PGC)</i></li> <li>3. <i>Submission of NRE-IER projected output from NRE-IER to the MO. (prescribed in SD 7.3.2.8 of the PGC)</i></li> </ol>	<p>For the SO's comment, Mr. Rosales explained that (i) Reserve Requirements is not considered in the preparation of WAP, as affirmed by the TC in its comment; (ii) the WAP considers the outage schedules of plants/generators, not transmission lines, since N-1 is not ran during WAP; and (iii) the WAP also does not consider Security Limits, but replace it with Overriding Constraints. Mr. Rosales stated that the SO's proposed revisions are based from what they actually provide for the preparation of the WAP.</p> <p>In response, Mr. Cacho stated that the purpose of the WAP is to provide a 7-day outlook of what the market schedules will be, which should include the reserve requirements within the covered planning horizon. Outage schedules of both plants and transmission lines that are known beforehand should also be already captured in the WAP. Mr. Cacho hence recommended to retain #1 to #3. The term</p>	<p><b>For Annex I:</b></p> <p><u>Refer to :</u> <u>TIME: Before 0855H</u></p> <p>Retrieve Other Information from SO re:</p> <ol style="list-style-type: none"> <li>1. <del>Reserve Requirements</del></li> <li>1. <u>Outage Schedules</u></li> <li>2. <u>Transmission Limits</u></li> <li>3. <del>Security Limits</del></li> <li>3. <u>Overriding Constraints</u></li> </ol> <p><u>Refer to :</u> <u>TIME: 0900H to 1700H</u></p> <p>WAP Results Analysis and <u>Coordination with SO</u></p>

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		<p>SD 7.3.2.6 of PGC states:  <i>"VRE Generators shall submit their VRE Generation Forecasts to the System Operator in accordance with the agreed timeline for validation against the values for the VRE facility forecasted output to be generated by the VRE Generation Forecasting Software. The System Operator as basis of the ancillary services requirement shall use the VRE Generation Forecasts."</i></p> <p>SD 7.3.2.7 of PGC states  <i>"Upon validation, the System Operator shall transmit the final VRE Generation Forecast to the VRE Generator for provision as nomination for the projected output to the Market Operator as stated in Clause 3.5.5.5 of the WESM"</i></p>	<p>Security Limits, according to him, is a technical name for Overriding Constraint Limits.</p> <p>Mr. Rosales countered that the MO can simply calculate what the required regulating reserve will be (i.e., 4% of demand) and do not need the SO to provide them this data for the WAP. The same goes with the contingency reserve requirement as the MO can compute the largest unit online. He reasoned that the SO do not have the data for Reserve Requirements for the week-ahead, only for the day-ahead. As for the need to provide the outage schedule of transmission lines as well, Mr. Rosales stated that the WAP is really more geared towards determining the <i>supply</i> outlook. This is why the list of contingencies (e.g., N-1) is only required by the MO from the SO for the preparation of day-ahead and hour-ahead projections, not for the WAP.</p> <p>Mr. Cacho then responded that if the Reserve Requirements will be deleted as one of those information required from the SO, then it should be made</p>	



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			<p><i>Rules."</i></p> <p>SD 7.3.2.8 of PGC states</p> <p><i>"VRE Generators shall submit their VRE Generation Forecasts to the Market Operator in accordance with the WESM timetable to be included in the dispatch schedule."</i></p>	<p>clear that it would be the MO who would derive this data instead. The RCC hence agreed to delete 'Reserve Requirements' and concurred with Mr. Cacho to add in the appropriate portion of the tables in Annexes I, III and IV that the MO shall determine the Reserve Requirements (see Annexes).</p> <p>As for the outage schedule data, Mr. Jose Ferlino Raymundo raised that excluding the submission of transmission line outages might compromise the accuracy of the WAP since such outages can affect dispatch schedules. To this, Mr. Rosales clarified that line outages is actually also captured in the data they submit to the MO. It would be then up to the MO if they would already include the information in the WAP. The RCC therefore agreed to retain Outage Schedules without the SO's suggested qualification.</p> <p>The RCC also agreed to use the term 'Overriding Constraints' instead of 'Overriding Constraint Limits'</p>	





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					<p>since the former is the one normally used, as pointed out by Mr. Raymundo.</p> <p>As regards NLREC's comments, Mr. Cacho stated that their concern will be addressed by the proposed amendment to the DP Manual related to preferential dispatch, which will be tackled at a later time as it is still within commenting period. The RCC duly noted NLREC's comments.</p>	
	<p>4.4.2 The DAP timetable is presented in the following table -</p> <p>Please refer to <b>ANNEX III</b></p>	<p><b>From the System Operator:</b></p> <p><u>Refer to:</u> <u>Before T-5 min</u></p> <p>Retrieve Other Information from SO re:</p> <ol style="list-style-type: none"> <li>1. Reserve Requirements</li> <li>2. Outage Schedules (<u>Plants/Lines/Equipment</u>)</li> <li>3. Contingency Lists</li> <li>4. Transmission Limits</li> <li>5. Security Limits</li> <li>5. <u>Overriding Constraint Limits</u></li> </ol>	<p><b>From the TC:</b></p> <p>In the DAP, MO provides the Reserve Requirements and SO has the option to revise it using the SOMODIP</p>		<p>Refer to the discussions for Section 4.3 above. The table in Annex III will be revised accordingly to state that the MO will determine the Reserve Requirements.</p> <p>To respond to the TC's comment, Mr. Rosales stated that the Reserve Requirements cannot be revised since it is already established at 4% of demand.</p>	<p><b>For Annex III:</b></p> <p><u>Refer to:</u> <u>Before T-5 min</u></p> <p>Retrieve Other Information from SO re:</p> <ol style="list-style-type: none"> <li>4. <del>Reserve Requirements</del></li> <li>1. Outage Schedules (<u>Plants/Lines/Equipment</u>)</li> <li>2. Contingency Lists</li> <li>3. Transmission Limits</li> <li>4. <del>Security Limits</del> <u>Overriding Constraints</u></li> </ol>
4.5 Real-Time Dispatch Schedule	Please refer to <b>ANNEX IV</b>	<b>From the SO:</b>			Refer to the discussions for Section 4.3 above. The table in	<b>For Annex IV:</b>

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(RTD) Or Hour-Ahead Schedule		<p><u>Refer to:</u></p> <p><b>Before T-5 min</b></p> <ol style="list-style-type: none"> <li>1. Reserve Requirements</li> <li>2. Outage Schedules <u>(Plants/Lines/Equipment)</u></li> <li>3. Contingency Lists</li> <li>4. Transmission Limits</li> <li>5. <del>Security Limits</del> 5. <u>Overriding Constraint Limits</u></li> </ol> <p><u>Refer to:</u></p> <p><b>Before T</b></p> <p><del>Security Analysis and Issuance of Energy and Reserve Schedules</del></p>	<p>Annex IV will be revised accordingly to state that the MO will determine the Reserve Requirements.</p> <p>Mr. Rosales explained that the RTD Schedule is a security constrained dispatch schedule, which means that it is already compliant with N-1. This is the reason why the MO already requires the Contingency Lists from the SO for the preparation of the hour-ahead or RTD schedule. Therefore, a security analysis is not necessary anymore because the RTD schedule should have already considered security constraints based from the contingency lists submitted by the SO. Otherwise, an unconstrained dispatch schedule may not be implementable leading to the SO declaring market intervention.</p> <p>Mr. Cacho concurred with Mr. Rosales and stated that the further need to conduct security analysis must have been picked up from the original version of the DP Manual. He added that the intention is for the SO to simply validate if the RTD schedule is</p>	<p><u>Refer to:</u></p> <p><b>Before T-5 min</b></p> <ol style="list-style-type: none"> <li>1. <del>Reserve Requirements</del></li> <li>1. Outage Schedules <u>(Plants/Lines/Equipment)</u></li> <li>2. Contingency Lists</li> <li>3. Transmission Limits</li> <li>4. <del>Security Limits</del> <u>Overriding Constraints</u></li> </ol> <p><u>Refer to:</u></p> <p><b>Before T</b></p> <p><del>Security Analysis and Issuance of Energy and Reserve Schedules</del></p> <p><u>Validate dispatch schedule if necessary and issue dispatch instructions</u></p>



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			implementable. The RCC then agreed to re-word instead of delete the subject procedure.	
4.6 Real-Time Ex-Post Dispatch (RTX) Schedule	Please refer to <b>ANNEX V</b>	<p><u>From the SO:</u></p> <p><u>Refer to:</u> <u>Before T</u></p> <p>Retrieve Other Information from RTD Save Case:</p> <ol style="list-style-type: none"> <li>1. Reserve Requirements</li> <li>2. Outage Schedules(<u>Plants/Lines/Equipment</u>)</li> <li>3. Contingency Lists</li> <li>4. Transmission Limits</li> <li>5. <del>Security Limits</del> <u>Overriding Constraint Limits</u></li> </ol>	<p>Mr. Cacho explained that since the subject procedure is for ex-post dispatch, it is already the MO who would perform the retrieval of information from RTD save case, not the SO. The RCC agreed to specify the procedure is already the MO's responsibility.</p> <p>However, Mr. Cacho stated that he would still need to confirm if 'RTD Save Case' is still the proper term to be used since it is the RTX process which retrieves the information.</p>	<p>For Annex V:</p> <p><u>Refer to:</u> <u>Before T</u></p> <p><u>MO to</u> Retrieve Other Information from RTD Save Case:</p> <ol style="list-style-type: none"> <li>1. Reserve Requirements</li> <li>2. Outage Schedules(<u>Plants/Lines/Equipment</u>)</li> <li>3. Contingency Lists</li> <li>4. Transmission Limits</li> <li>5. <del>Security Limits</del> <u>Overriding Constraints</u></li> </ol>
<p>5. MARKET OPERATIONS PROCEDURES AND INFRASTRUCTURE</p> <p>5.2 Scheduling And Dispatch Procedures</p>	5.2.2 The following table contains a non-exhaustive list of the various procedures that are being maintained and indicates if the procedure is contained in this Dispatch Protocol or in other market manuals. Other procedures may be formulated and listed procedures may be modified or superseded from time to time, following relevant amendatory processes, without need of amending	<p><u>From the SO:</u></p> <p><u>Refer to:</u> <u>System Operator Data Inputs and Reports –</u></p> <ul style="list-style-type: none"> <li>• Contingency <u>lists</u></li> <li>• Outage <u>Schedules</u></li> <li>• <del>Security limits</del> <u>Overriding Constraint Limits</u></li> <li>• Transmission limits</li> <li>• System snapshot</li> <li>• System advisories</li> </ul> <p><u>Refer to:</u> <u>Pre-dispatch market projections</u> <u>Week-ahead projections (RTD) (WAP)</u></p>	<p>The RCC agreed to adopt the SO's comment, as revised.</p>	<p>For Annex VI:</p> <p><u>Refer to:</u> <u>System Operator Data Inputs and Reports –</u></p> <ul style="list-style-type: none"> <li>• Contingency <u>lists</u></li> <li>• Outage <u>Schedules</u></li> <li>• <del>Security limits</del> <u>Overriding Constraints</u></li> <li>• Transmission limits</li> <li>• System snapshot</li> <li>• System advisories</li> </ul>

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	this list -  Please refer to <b>ANNEX VI</b>			<b>Refer to:</b> <b>Pre-dispatch projections</b> <b>market projections</b> Week-ahead (RTD) (WAP)
<b>6. SUBMISSION AND PROCESSING OF BIDS AND OFFERS</b>  6.1 Background	6.1.5 Trading Participants that cancel their bids or offers, or submit bids or offers less than the registered capacity of their facility or generating unit are required to provide information on the reasons or circumstances of such cancellation or submission. This is pursuant to WESM Rules clause 3.5.11.5.	<b>From NLREC:</b>  <i>Clarification if the NRE-IER is also required to submit reasons for submission of projected output less than the registered capacity.</i>  <i>Proposes to clarify that NRE-IER are not required to give reasons for submission of projected output less than the registered capacity.</i>	Mr. Cacho stated that NLREC's concern will be addressed by the proposed amendments to the DP Manual related to preferential dispatch, which is still within commenting period. The RCC duly noted NLREC's comments.	
6.6 Open Market Window And Gate Closure Time	6.6.1 Open market window. The Open Market Window covers the period seven (7) days before and after the current date. The covered dates are the trading dates where bids/offers can be created, submitted, revised, canceled, or retrieved. Trading Participants can only submit bids/offers for trading intervals that are within the Open Market Window.	<b>From Vivant:</b>  <i>What are the scenarios or examples of constraints in the system that the MO will allow or extend submission/revision of bids beyond gate closure?</i>	Mr. Cacho explained that the open market window is only up to the gate closure, which is already one (1) hour before the RTD execution. Revisions are not allowed beyond the gate closure.	
	6.6.4 If it deems necessary to address the occurrence of constraints in the system, the	<b>From the SO:</b>  <del>6.6.4 If it deems necessary to address the occurrence of constraints</del>	Revisions are not allowed beyond the gate closure, as confirmed by Mr. Cacho.	<del>6.6.4 If it deems necessary to address the occurrence of constraints in the system, the</del>



Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
	Market Operator may extend the gate closure time and allow the submission or revision of bids and offers later than the set gate closure time.	<del>in the system, the Market Operator may extend the gate closure time and allow the submission or revision of bids and offers later than the set gate closure time.</del>	The RCC agreed to adopt the SO's comment.	<del>Market Operator may extend the gate closure time and allow the submission or revision of bids and offers later than the set gate closure time.</del>
	6.6.5 The most recently submitted bids which have passed validation and which had been "converted" as a valid bid shall be used for the Pre-Dispatch Market Projection (Day-Ahead Projections, DAP or Week-Ahead, WAP) or Real Time Dispatch (RTD and RTX) market runs.	<u>From the SO:</u> 6.6.5 The most recently submitted bids which have passed validation and which had been "converted" as a valid bid shall be used for the Pre-Dispatch Market Projection (Day-Ahead Projections, DAP or Week-Ahead <b>Projections</b> , WAP) or Real Time Dispatch (RTD and RTX) market runs.	The RCC agreed to adopt the SO's comment.	<b>6.6.4</b> The most recently submitted bids which have passed validation and which had been "converted" as a valid bid shall be used for the Pre-Dispatch Market Projection (Day-Ahead Projections, DAP or Week-Ahead <b>Projections</b> , WAP) or Real Time Dispatch (RTD and RTX) market runs.
6.12 Validation Of Bids/Offer Submissions	6.12.4 Market-based validation include the following criteria –  a) Registration data. All bids and offers are validated against operational data originally approved and submitted to the MMS at the time of the registration, subject to any approved amendments thereof, by the Trading Participants and/or their respective generating units, or subsequent revisions to the same data approved and submitted to the MMS in	<u>From the SO:</u> xxx  b) Current system status. Bids and offers submitted are validated against real-time information relevant to the facility for which a bid or offer is submitted. Real-time <u>snapshots from System Operator are</u> information used for validation <u>and shall serve as</u> is the latest information on system status <u>to be</u> transmitted <u>by the System Operator</u> to the MMS <u>of Market Operator</u> .  c) Outages. <del>Generation offers for g</del> Generating facilities which are included in the outage list submitted by the System Operator to the MMS are automatically excluded from the scheduling and dispatch processes, and are thus not included in the generation of real-time dispatch (RTD) schedules and the WESM merit order table (MOT).	Upon consulting with the MO, the RCC agreed to adopt the SO's comments, except using the term 'Overriding Constraint Limits' in item (d), which was replaced with 'Overriding Constraints'	xxx  b) Current system status. Bids and offers submitted are validated against real-time information relevant to the facility for which a bid or offer is submitted. Real-time <u>snapshots from System Operator are</u> information used for validation <u>and shall serve as</u> is the latest information on system status <u>to be</u> transmitted <u>by the System Operator</u> to the MMS <u>of Market Operator</u> .

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	<p>their application for registration in the WESM and revisions to the registration data which are submitted no later than seven (7) calendar days prior to the trading interval for which the bid or offer is submitted.</p> <p>b) Current system status. Bids and offers submitted are validated against real-time information relevant to the facility for which a bid or offer is submitted. Real-time information used for validation is the latest information on system status transmitted by the System Operator to the MMS.</p> <p>c) Outages. Generation offers for generating facilities which are included in the outage list submitted by the System Operator to the MMS are automatically excluded from the scheduling and dispatch processes, and are thus not included in the generation of real-time dispatch (RTD) schedules and the WESM merit order table (MOT).</p> <p>d) Contingencies.</p>	<p>d) Overriding Constraint limits. <del>Contingencies. Contingency requirements</del> <u>Overriding Constraint limits</u> imposed and submitted by the System Operator <del>are also used to validate and</del> <u>shall</u> override bids and offers submissions <u>of Generating facilities</u>. These may include <u>security and non-security related requirements</u>, <del>but shall not be limited to, must run unit generation, increase in reserve allocation or transmission capacity margins.</del></p>		<p>c) Outages. Generation <del>offers for</del> <u>Generating facilities</u> which are included in the outage list submitted by the System Operator to the MMS are automatically excluded from the scheduling and dispatch processes, and are thus not included in the generation of real-time dispatch (RTD) schedules and the WESM merit order table (MOT).</p> <p>d) Overriding Constraint limits. <del>Contingencies. Contingency requirements</del> <u>Overriding Constraints</u> imposed and submitted by the System Operator <del>are also used to validate and</del> <u>shall</u> override bids and offers submissions <u>of Generating facilities</u>. These may include <u>security and non-security related requirements</u>, <del>but shall not be limited to, must run unit generation, increase in reserve allocation or transmission capacity margins.</del></p>



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	Contingency requirements imposed and submitted by the System Operator are also used to validate and override bids and offers submissions. These may include, but shall not be limited to, must run unit generation, increase in reserve allocation or transmission capacity margins.			
6.13 Revisions Of Bids And Offers Based On Reasonable Estimates	<p>6.13.2 The following criteria for determining deviation from reasonable estimate of the foregoing that would require revision of bids or offer may be followed –</p> <p><i>Please refer to ANNEX IX</i></p>	<p><u>From the SO:</u></p> <p>Remove (Not Applicable)</p>	<p>Mr. Cacho explained that Annex IX cannot be removed since the given parameters serve as the basis the purpose of compliance monitoring. Ms. Joselyn Carabuena concurred and stated that Annex IX must be the basis used by PEMC-ECO for sending Preliminary Notices of Investigation. If so, Atty. Layugan stated that perhaps the provision should not be included in the DP Manual and the percentage of allowable from reasonable estimate be re-visited.</p> <p>Mr. Raymundo, on the other hand, stated that revisions of bids and offers are allowed anyway as long as it is submitted before the gate closure, so the provision might not be necessary.</p>	<p>6.13.2 The following criteria for determining deviation from reasonable estimate of the foregoing that would require revision of bids or offer may be followed –</p> <p><i>Please refer to ANNEX IX</i></p>

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				As the purpose of the provision is not yet clear, the RCC agreed to retain the same for the meantime subject to Mr. Cacho's consultation with PEMC-ECO.	
6.14 Cancellation Of Bids And Offers	<p>6.14.1 Trading participants may cancel their daily bids or "converted" standing bids/offers for a particular trading interval under the following conditions –</p> <p>a) The 1600H Day-Ahead Projections (DAP) results indicate that the demand for that trading interval is less than summation of the registered technical minimum generating capacity (aggregate Pmin) of all the generating units that are classified as scheduled generation units.</p> <p>b) Cancellation of bids/offers shall be made within the open market window and prior to the gate closure for the particular trading interval.</p> <p>c) Cancelled bids/offers may be revoked and re-</p>	<p><b>From the SO:</b></p> <p>6.14.1 Trading participants may cancel their daily bids or "converted" standing bids/offers for a particular trading interval under the following conditions –</p> <p>a) <i>Can we include the projected load of VRE Generators with the aggregated Pmin of all online generating units? This is in consideration of the Must Dispatch category of VRE plants.</i></p> <p>b) Cancellation of bids/offers shall be made within the open market window and prior to the gate closure for the particular trading interval.</p> <p>c) Cancelled bids/offers may be revoked and re-submitted or revised within the open market window and prior to the gate closure.</p> <p><b>d) For this purpose, the Market</b></p>	<p><b>From the TC:</b></p> <p>Suggest to remove the provision on cancellation of bids and offers except for the management of excess generation, unless this cancellation refers to revision of bids before the gate closure.</p>	<p>For the SO's comment in item (a), Mr. Rosales clarified that the SO is particularly concerned about the cancellation of offers due to excess generation. The MO is the one who determines if there is excess generation. Mr. Rosales requested clarification if this determination already accounts for the projected output of VRE plants. Mr. Cacho responded that the projected outputs of VRE plants are already considered in the DAP, together with the Pmins of conventional plants and the non-scheduled generating units. Pricing signals based from CVCs will reflect if there is excess generation. The subject provision then implies that if there is excess generation based from the DAP, then plants, especially the expensive ones, may opt to cancel their offers.</p>	<p>6.14.1 Trading participants may cancel their daily bids or "converted" standing bids/offers for a particular trading interval under the following conditions –</p> <p>a) The 1600H Day-Ahead Projections (DAP) results indicate that the demand for that trading interval is less than summation of the registered technical minimum generating capacity (aggregate Pmin) of all the generating units that are classified as scheduled generation units.</p> <p>b) Cancellation of bids/offers shall be made within the open market window and prior to the gate closure for the particular trading interval.</p> <p>c) Cancelled bids/offers may be revoked and re-</p>



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	submitted or revised within the open market window and prior to the gate closure.	<u>Operator shall publish to the trading participants the hourly total registered minimum generating capacity (Pmin) of all scheduled generating units based on the Day-Ahead Market Projections not later than 1800H of each trading day.</u>	Mr. Rosales asked though if the MO cannot generate a DAP that already addressed the excess generation, because the condition could still occur if not enough generators cancelled their offers. Mr. Cacho responded that it is up to the Trading Participants how they would respond to excess generation based from the DAP. After all, the objective of the market is to allow participants to make their own decisions based from market conditions. Also, if the RTD is not implementable due to over-generation, then the procedures for the declaration of market intervention by the SO would kick in. However, Mr. Rosales countered that the MO should already be able to address excess generation based from the DAP, and should not transmit an RTD schedule to the MO knowing that there is an excess generation condition. He added that the MO can already determine which plants can be shut down. He then suggested that the Manual on Excess Generation be re-visited to come up with measures to	submitted or revised within the open market window and prior to the gate closure.

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				<p>address this. The RCC duly noted Mr. Rosales' suggestion.</p> <p>For the proposed item (d) by the SO, this sentence is already currently stipulated as Section 6.14.2. The RCC therefore agreed to retain the original provision from the proposed Issue 12.</p> <p>For the comment of TC, the original proposed provisions all pertains to the cancellation of bids and offers before gate closure.</p>	
<p><b>7. SYSTEM OPERATOR INPUT DATA AND REPORTS</b></p> <p>7.1 Background</p>	<p>7.1.1 WESM Rules section 3.5.3 provides for the responsibility of the System Operator to submit to the Market Operator standing network data relating to all network elements which are included in the market network model. In this regard, Network Service Providers are required, under WESM Rules clause 3.5.2 to submit to the System Operator standing network data relating to all network elements under its control and included in the market network model. Data required to be submitted are set out in</p>	<p><u>From the SO:</u></p> <p>7.1.1 WESM Rules section 3.5.3 provides for the responsibility of the System Operator to submit to the Market Operator standing network data relating to all network elements <u>for the veracity and accuracy of which are included in the market network model</u>. In this regard, Network Service Providers are required, under WESM Rules clause 3.5.2 to submit to the System Operator standing network data relating to all network elements under its control <del>and included in the market network model</del> and the data required to be submitted are set out in Appendix A2 of the WESM Rules.</p>		<p>Mr. Rosales stated that the comment of the SO intends to also account for those network elements that impact market prices that are not incorporated in the current market network model. Until these network elements are still not integrated, then the MNM cannot be considered accurate.</p> <p>However, Mr. Cacho stated that the intention of the original proposed provision is to include all network elements that affect prices in the MNM in the first place. Moreover, the provision is written in the same</p>	<p>7.1.1 WESM Rules section 3.5.3 provides for the responsibility of the System Operator to submit to the Market Operator standing network data relating to all network elements which are included in the market network model. In this regard, Network Service Providers are required, under WESM Rules clause 3.5.2 to submit to the System Operator standing network data relating to all network elements under its control and included in the market network model. Data required to be submitted are set out in Appendix A2 of the</p>



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	Appendix A2 of the WESM Rules		was as in the WESM Rules.  The RCC agreed therefore to retain the original proposed provision.	WESM Rules
	7.1.2 The System Operator is also required in WESM Rules clause 3.5.3.2 to advise the Market Operator, when necessary, of the need to vary the market network model employed for any trading interval to take account of information provided by Network Service Providers, as well as the need to apply or vary any system security constraints, over-riding constraints or reserve requirement constraints to be applied in any trading interval to take into account current or projected system conditions.	<u>From the SO:</u>  7.1.2 The System Operator is also required in WESM Rules clause 3.5.3.2 to advise the Market Operator, when necessary, <del>of the need to vary the market network model employed for any trading interval to take account of information provided by Network Service Providers, as well as</del> the need to apply or vary any system security constraints, over-riding constraints or reserve requirement constraints to be applied in any trading interval to take into account current or projected system conditions.	Mr. Cacho explained that the original version of the provision should be retained because the information provided by the Network Service Providers would serve as the basis for varying the MNM, which in turn would inform the MMS of the changes in the configuration.  The RCC agreed to retain the original proposed provision.	7.1.2 The System Operator is also required in WESM Rules clause 3.5.3.2 to advise the Market Operator, when necessary, of the need to vary the market network model employed for any trading interval to take account of information provided by Network Service Providers, as well as the need to apply or vary any system security constraints, over-riding constraints or reserve requirement constraints to be applied in any trading interval to take into account current or projected system conditions.
	7.1.3 The Price Determination Methodology approved for the WESM also provide for the input data required of the System Operator which shall be considered in the market scheduling and pricing processes.	<u>From the SO:</u>  <del>7.1.3 The Price Determination Methodology approved for the WESM also provide for the input data required of the System Operator which shall be considered in the market scheduling and pricing processes.</del>	Mr. Cacho explained that the provision simply states that the PDM also provides the required input data coming from the SO used to determine market scheduling and pricing. Examples of these inputs are the reserve requirements (which was already agreed to be determined by the MO	7.1.3 The Price Determination Methodology approved for the WESM also provide for the input data required of the System Operator which shall be considered in the market scheduling and pricing processes.

Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
			rather than the SO so the PDM should also be revised accordingly), contingency lists, etc.  The RCC agreed to retain the original proposed provision.	
7.2 Scope And Purpose	7.2.1 This Section contains the procedures that will be followed in the submission by the System Operator to the Market Operator of the data required to be submitted by it to be used in the market scheduling and pricing processes, as well as the submission of other System Operator data, report, messages and advisories.	<u>From the SO:</u>  7.2.1 This Section contains the procedures that will be followed <u>for</u> in the submission, by the System Operator to the Market Operator, of the data required <del>for to be submitted by it to be used in the market</del> scheduling and pricing processes, as well as the submission of other System Operator data, report, messages and advisories.	The RCC agreed to adopt enhancements from the SO.	7.2.1 This Section contains the procedures that will be followed <u>for</u> in the submission, by the System Operator to the Market Operator, of the data required <del>for to be submitted by it to be used in the market</del> scheduling and pricing processes, as well as the submission of other System Operator data, report, messages and advisories.
7.3Responsibilities	7.3.1 Market Operator. The Market Operator shall be responsible for –  a) Providing and maintaining the data exchange and communication facilities it needs to receive data, messages and advisories transmitted by the System Operator; and  b) Ensuring that data inputs required of the System Operator are considered in	<u>From the SO:</u>  xxx  a) Providing and maintaining the data exchange and communication facilities it needs <u>to ensure timely submission of dispatch schedules (RTD/DAP/WAP)</u> <del>to receive data,</del> messages and advisories transmitted by the <u>Market Operator to the</u> System Operator and <u>Trading participants</u> ; and  xxx	The RCC agreed to adopt the SO's comment.	7.3.1 Market Operator. The Market Operator shall be responsible for –  a) Providing and maintaining the data exchange and communication facilities it needs <u>to ensure timely submission of dispatch schedules (RTD/DAP/WAP)</u> <del>to receive data,</del> messages and advisories transmitted by the <u>Market Operator to the</u> System Operator



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	the market dispatch optimization runs.			<p>and <u>Trading participants</u>; and</p> <p>b) Ensuring that data inputs required of the System Operator are considered in the market dispatch optimization runs.</p>
	<p>7.3.2 System Operator. The System Operator shall be responsible for –</p> <p>a) Preparing the data and reports required to be submitted as set out in this Dispatch Protocol and relevant provisions of the WESM Rules and other market manuals, and for transmitting the same to the Market Operator in accordance with the schedules and procedures set out in this Section;</p> <p>b) Preparing and submitting contingency lists for a particular trading interval or trading day;</p> <p>c) Approving and implementing outage schedules submitted by Network Service Providers</p>	<p><u>From the SO:</u></p> <p>xxx</p> <p>b) Preparing and submitting <u>additional</u> contingency lists for a particular trading interval or trading day <u>if necessary</u>;</p> <p><del>c) Approving and implementing outage schedules submitted by Network Service Providers and Trading Participants, and for submitting the approved schedules to the Market Operator; and</del></p> <p>xxx</p>	<p>Mr. Rosales explained that the SO may still submit additional contingency lists aside from the default list if deemed necessary. The RCC agreed to adopt the SO's comment from item (b).</p> <p>The SO agreed to simply retain item (c).</p>	<p>7.3.2 System Operator. The System Operator shall be responsible for –</p> <p>a) Preparing the data and reports required to be submitted as set out in this Dispatch Protocol and relevant provisions of the WESM Rules and other market manuals, and for transmitting the same to the Market Operator in accordance with the schedules and procedures set out in this Section;</p> <p>b) Preparing and submitting <u>additional</u> contingency lists for a particular trading interval or trading day <u>if necessary</u></p> <p>c) Approving and implementing outage schedules submitted by Network Service Providers</p>

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	and Trading Participants, and for submitting the approved schedules to the Market Operator; and  d) Providing and maintaining the data exchange and communication facilities it needs to ensure timely data and report transmittal to the Market Operator.			and Trading Participants, and for submitting the approved schedules to the Market Operator; and  d) Providing and maintaining the data exchange and communication facilities it needs to ensure timely data and report transmittal to the Market Operator.
7.4 Data And Report Requirements	7.4.1 Market run data Inputs. For each trading interval, the System Operator shall submit the following data which shall be used in the pre-dispatch projections and real time dispatch market runs –  a) Outage schedules b) Contingency lists c) Overriding constraints, including but not limited to transmission limits or security limits	<u>From the SO:</u>  xxx  e) <del>Overriding constraints, including but not limited to transmission limits or security limits</del>  xxx	Mr. Rosales stated that overriding constraints already captures transmission and security limits, so there is no need to make a qualification.  The RCC agreed to adopt the SO's comment.	7.4.1 Market run data Inputs. For each trading interval, the System Operator shall submit the following data which shall be used in the pre-dispatch projections and real time dispatch market runs –  a) Outage schedules b) Contingency lists e) <del>Overriding constraints, including but not limited to transmission limits or security limits</del>
	7.4.2 System Status. During a trading interval, the System Operator shall submit the following information –  a) Power system snapshots; and	<u>From TC's Proposed Amendments to DP Manual 11:</u>  4.2.9 SO System Advisories are messages issued by the <del>System Operator(SO)</del> depicting particular issues regarding existing or anticipated status of the <del>power system</del> <u>grid</u> .	The RCC agreed to adopt the TC's enhancements and replacement of the term 'power system' with 'grid' if the provision is related to the System Operator.	7.4.2 System Status. During a trading interval, the System Operator shall submit the following information –  a) <del>Power system</del> <u>Grid</u> snapshots; and



Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
	b) System advisories on the anticipated condition of the power system			b) System advisories on the anticipated condition of the <del>power system</del> <u>grid</u>
7.5 Outage Schedules	<p>7.5.1 The outage schedules that shall be submitted by the System Operator to the Market Operator are those outage schedules that are approved for the following –</p> <p>a) Generating units; b) Transmission lines; and c) Sub-station equipment</p>	<p><b>From Vivant:</b></p> <p><i>Can the SO also submit a report on the completion of the maintenance/ repair work of these approved outage schedules? Can a copy of this report also be provided by SO/MO to the generator who had filed or was affected by these outages of:</i></p> <p>a) Generation b) Transmission; or c) S/S equipment</p> <p><i>The clarification is being made in order to prevent incidents wherein based on all available information (to the generator) that the maintenance work has been completed and properly coordinated with the SO but apparently the system snapshot still shows that the NGCP breakers (under the control of the SO) are open.</i></p>	<p>Mr. Rosales expressed that what the outage schedule submitted to the MO already serves as the report. What the outage schedule indicates will be the information picked up by the MO.</p> <p>The Secretariat clarified that for comments in the form of queries with no proposed changes to the provisions, the sector representatives are expected to relay the discussions by the RCC brought about the commenter's query.</p>	<p>7.5.1 The outage schedules that shall be submitted by the System Operator to the Market Operator are those outage schedules that are approved for the following –</p> <p>a) Generating units; b) Transmission lines; and c) Sub-station equipment</p>
7.6 Over-Riding Constraints	<p>7.6.1 The MMS provides a functionality that allows the Market Operator to make adjustments in the Operating Constraints of the Market Dispatch Optimization Model for a particular Trading Interval. Such adjustments or overriding constraints in the Market Dispatch Optimization Model is imposed by the Market Operator upon the recommendation of the</p>	<p><b>From the SO:</b></p> <p>xxx</p> <ul style="list-style-type: none"> <li>• Security Limits <ul style="list-style-type: none"> <li>a. Must-Run Units (MRU)</li> <li>b. Emergency de-rating/ outage of specific transmission lines;</li> <li>c. Other types as may be recommended by the System Operator</li> </ul> </li> <li>• Non Security Limits: <ul style="list-style-type: none"> <li>a. Generating Unit Limitations</li> <li>b. Regulatory and Commercial Testing</li> </ul> </li> </ul>	<p>The RCC agreed to adopt the SO's comment.</p>	<p>7.6.1 The MMS provides a functionality that allows the Market Operator to make adjustments in the Operating Constraints of the Market Dispatch Optimization Model for a particular Trading Interval. Such adjustments or overriding constraints in the Market Dispatch Optimization Model is imposed by the Market Operator upon the recommendation of the</p>

Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
	<p>System Operator through a database interchange program between the Market Operator and System Operator. Imposition of Overriding Constraints in the Market Dispatch Optimization Model include the following:</p> <ul style="list-style-type: none"> <li>• Security Limits <ul style="list-style-type: none"> <li>o Must-Run Units (MRU)</li> <li>o Emergency de-rating/ outage of specific transmission lines;</li> <li>o Other types as may be recommended by the System Operator</li> </ul> </li> <li>• Non Security Limits: <ul style="list-style-type: none"> <li>o Generating Unit Limitations</li> <li>o Regulatory and Commercial Testing</li> </ul> </li> </ul> <p>Over-riding constraints in the scheduling and dispatch of generating units qualifying as must run units may be compensated based on the mechanism set forth in the Manual on the Management of Must-Run and Must-Stop Units. Over-riding constraints for the scheduling and dispatch of generating units</p>	<p>Over-riding constraints in the scheduling and dispatch of generating units qualifying as must run units may be compensated based on the mechanism set forth in the Manual on the Management of Must-Run and Must-Stop Units. Over-riding constraints for the scheduling and dispatch of generating units undergoing Regulatory and Commercial testing process shall be considered as price takers in the WESM, for generation <u>traded</u> sold to the spot market.</p>		<p>System Operator through a database interchange program between the Market Operator and System Operator. Imposition of Overriding Constraints in the Market Dispatch Optimization Model include the following:</p> <ul style="list-style-type: none"> <li>• Security Limits <ul style="list-style-type: none"> <li>a. Must-Run Units (MRU)</li> <li>b. Emergency de-rating/ outage of specific transmission lines;</li> <li>c. Other types as may be recommended by the System Operator</li> </ul> </li> <li>• Non Security Limits: <ul style="list-style-type: none"> <li>a. Generating Unit Limitations</li> <li>b. Regulatory and Commercial Testing</li> </ul> </li> </ul> <p>Over-riding constraints in the scheduling and dispatch of generating units qualifying as must run units may be compensated based on the mechanism set forth in the Manual on the Management of Must-Run and Must-Stop Units. Over-riding constraints for the scheduling and dispatch of generating units undergoing Regulatory and</p>



Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
	undergoing Regulatory and Commercial testing process shall be considered as price takers in the WESM, for generation sold to the spot market.			Commercial testing process shall be considered as price takers in the WESM, for generation <u>traded</u> sold to the spot market.
	<p>7.6.2 Security Limits. Security limits are imposed by the System Operator to reflect system stability limits and these vary under different system conditions. Security limits include generator operating limits and transmission branch group limits, described as follows –</p> <p>a) Generator operating limits (Pmin, Pmax) may vary based on different plant and system conditions. Some generators are required to produce no less than certain amount of output for system reliability reasons. Some generators are required to restrain their output due to stability considerations. Generating units nominated by the System Operator as a must run unit (MRU) falls in this category. Refer to the WESM Manual on Management of Must-Run</p>	<p><b>From the SO:</b></p> <p>7.6.2 Security Limits. <u>The System Operator may impose security limits and shall override the generation offers to address possible threat in system security</u> <del>Security limits are imposed by the System Operator to reflect system stability limits and these may vary under different system conditions. Security limits include generator operating limits and transmission branch group limits, described as follows –</del></p> <p>a) Generator operating limits (Pmin, Pmax) may vary based on different plant and system conditions. Some generators are required to produce no less than certain amount of output for system reliability reasons. Some generators are required to restrain their output due to stability considerations. Generating units nominated by the System Operator as a must run unit (MRU) falls in this category. Refer to the WESM Manual on Management of Must-Run</p> <p>b) <del>A transmission branch group defines one or more transmission lines. Branch group limits usually reflect system stability constraints. A branch group limit means the sum of power flow on the group of transmission lines shall not exceed the limit.</del></p> <p>c) <u>b)</u> HVDC transmission limits may vary constraining power transmission from one region to another. The HVDC limits are modeled.</p> <p>The imposition of over-riding constraints <del>through the security limit in</del></p>	<p>Mr. Rosales stated that the SO's comment simply intends to better clarify what security limits are. Atty. De Castro suggested re-wording the introductory sentence, which was adopted by the body.</p> <p>For item (b), Mr. Rosales stated that the SO recommends deleting it because transmission branch group limits are not imposed. Overriding constraint limits already address the threat supposedly prevented by the transmission branch group limits.</p>	<p>7.6.2 Security Limits. <u>The System Operator may impose security limits to override the generation offers and address possible threats in system security.</u> <del>Security limits are imposed by the System Operator to reflect system stability limits and These security limits may vary under different system conditions. Security limits include generator operating limits and transmission branch group limits, described as follows –</del></p> <p>a) Generator operating limits (Pmin, Pmax) may vary based on different plant and system conditions. Some generators are required to produce no less than certain amount of output for system reliability reasons. Some generators are required to restrain their output due to stability considerations.</p>

Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
	<p>and Must-Stop Units for more details.</p> <p>b) A transmission branch group defines one or more transmission lines. Branch group limits usually reflect system stability constraints. A branch group limit means the sum of power flow on the group of transmission lines shall not exceed the limit.</p> <p>c) HVDC transmission limits may vary constraining power transmission from one region to another. The HVDC limits are modeled.</p> <p>The imposition of over-riding constraints through the security limit in the Market Dispatch Optimization Model include the following:</p> <p>a) Security Limits;</p> <ul style="list-style-type: none"> <li>• Must-Run Units (MRU)</li> <li>• Emergency de-rating/ outage of specific transmission lines;</li> <li>• Other types as may be recommended by the System</li> </ul>	<p>the Market Dispatch Optimization Model include the following:</p> <ul style="list-style-type: none"> <li>• Security Limits; <ul style="list-style-type: none"> <li>a. Must-Run Units (MRU)</li> <li>b. Emergency de-rating/ outage of specific transmission lines;</li> <li>c. Other types as may be recommended by the System Operator</li> </ul> </li> <li>• Non Security Limits: <ul style="list-style-type: none"> <li>a. Generating Unit Limitations</li> <li>b. Regulatory and Commercial Testing</li> </ul> </li> </ul> <p>Over-riding constraints in the scheduling and dispatch of generating units qualifying as must run units may be compensated based on the mechanism set forth in the Manual on the Management of Must-Run and Must-Stop Units.</p> <p>Over-riding constraints for the scheduling and dispatch of generating units undergoing Regulatory and Commercial testing process shall be considered as price takers in the WESM, for generation <u>traded</u> sold to the spot market.</p>		<p>Generating units nominated by the System Operator as a must run unit (MRU) falls in this category. Refer to the WESM Manual on Management of Must-Run and Must-Stop Units for more details.</p> <p><del>b) A transmission branch group defines one or more transmission lines. Branch group limits usually reflect system stability constraints. A branch group limit means the sum of power flow on the group of transmission lines shall not exceed the limit.</del></p> <p>e) <del>b)</del> HVDC transmission limits may vary constraining power transmission from one region to another. The HVDC limits are modeled.</p> <p>The imposition of over-riding constraints through the security limit in the Market Dispatch Optimization Model include the following:</p> <ul style="list-style-type: none"> <li>• Security Limits; <ul style="list-style-type: none"> <li>a. Must-Run Units (MRU)</li> <li>b. Emergency de-rating/ outage of</li> </ul> </li> </ul>



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	<p>Operator</p> <p>b) Non Security Limits:</p> <ul style="list-style-type: none"> <li>• Generating Unit Limitations</li> <li>• Regulatory and Commercial Testing</li> </ul> <p>Over-riding constraints in the scheduling and dispatch of generating units qualifying as must run units may be compensated based on the mechanism set forth in the Manual on the Management of Must-Run and Must-Stop Units.</p> <p>Over-riding constraints for the scheduling and dispatch of generating units undergoing Regulatory and Commercial testing process shall be considered as price takers in the WESM, for generation sold to the spot market.</p>			<p>specific transmission lines;</p> <p>c. Other types as may be recommended by the System Operator</p> <ul style="list-style-type: none"> <li>• Non Security Limits: <ul style="list-style-type: none"> <li>a. Generating Unit Limitations</li> <li>b. Regulatory and Commercial Testing</li> </ul> </li> </ul> <p>Over-riding constraints in the scheduling and dispatch of generating units qualifying as must run units may be compensated based on the mechanism set forth in the Manual on the Management of Must-Run and Must-Stop Units.</p> <p>Over-riding constraints for the scheduling and dispatch of generating units undergoing Regulatory and Commercial testing process shall be considered as price takers in the WESM, for generation <u>traded</u> sold—to the spot market.</p>
	7.6.3 Transmission Limits.	<del>7.6.3—Transmission Limits. Transmission limits are generally thermal</del>	The SO agreed to retain the	7.6.3 Transmission Limits.



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	Transmission limits are generally thermal limits of individual transmission lines, transformers, and related facilities. The transmission limits are used in security analysis application to check constraint violations.	<del>limits of individual transmission lines, transformers, and related facilities. The transmission limits are used in security analysis application to check constraint violations.</del>	original proposed provision.	Transmission limits are generally thermal limits of individual transmission lines, transformers, and related facilities. The transmission limits are used in security analysis application to check constraint violations.
7.7 Contingency Requirements	7.7.1 A contingency is an event for which the power system or the WESM is designed or planned to withstand without significant disturbance or interruption of normal operation without the need for drastic emergency actions.	<p>7.7 Contingency <u>List</u> Requirements</p> <p><del>7.7.1 A contingency is an event for which the power system or the WESM is designed or planned to withstand without significant disturbance or interruption of normal operation without the need for drastic emergency actions.</del></p> <p><u>7.7.1 The security and reliability of the grid shall be based on the single outage contingency (N-1) criterion. This criterion specifies that the grid shall continue to operate in the normal state following the loss of one generating unit, transmission line, or transformer.</u></p>	<p>Mr. Rosales stated that the title revision only aims to clarify that what the MO requires from the SO is the list of contingencies and not the contingency per se. Mr. Cacho concurred with the comment and stated that Section 7.7.1 just further supports what the contingency list requirement is about.</p> <p>The RCC agreed to adopt the SO's comment.</p>	<p>7.7 Contingency <u>List</u> Requirements</p> <p><del>7.7.1 A contingency is an event for which the power system or the WESM is designed or planned to withstand without significant disturbance or interruption of normal operation without the need for drastic emergency actions.</del></p> <p><u>7.7.1 The security and reliability of the grid shall be based on the single outage contingency (N-1) criterion. This criterion specifies that the grid shall continue to operate in the normal state following the loss of one generating unit, transmission line, or</u></p>



Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
				<u>transformer.</u>
	7.7.2 The System Operator shall determine all possible contingency events that may occur in a given trading interval. The contingency plan shall take into consideration weather condition, system demand, as well as the operating characteristics and physical condition of transmission lines, power transformers, switching equipment, and the like. The identified contingencies for a trading interval shall conform to the provisions of the WESM System Security & Reliability Guidelines.	<del>7.7.2 The System Operator shall determine all possible contingency events that may occur in a given trading interval. The contingency plan shall take into consideration weather condition, system demand, as well as the operating characteristics and physical condition of transmission lines, power transformers, switching equipment, and the like. The identified contingencies for a trading interval shall conform to the provisions of the WESM System Security &amp; Reliability Guidelines.</del>	Mr. Rosales explained that to determine all possible contingency events would be very difficult. Further, the contingency list already addresses this. Mr. Cacho concurred with Mr. Rosales, but suggested to retain the last sentence. The RCC agreed to adopt Mr. Cacho's suggestion.	<del>7.7.2 The System Operator shall determine all possible contingency events that may occur in a given trading interval. The contingency plan shall take into consideration weather condition, system demand, as well as the operating characteristics and physical condition of transmission lines, power transformers, switching equipment, and the like. The identified contingencies for a trading interval shall conform to the provisions of the WESM System Security &amp; Reliability Guidelines.</del>
	7.7.3 The contingency list contains the definition of credible contingencies for power system security analysis. It includes a list of pre-defined outage scenarios that are most likely to occur in the system in faulty conditions, identifying all possible outage scenarios that may occur during a particular trading interval.	7.7.3 The <u>default</u> contingency list contains the definition of credible contingencies <u>as provided by the System Operator</u> for power system security analysis. It includes a list of (i.e. pre-defined outage scenarios) that are most likely to occur in the system in faulty conditions, identifying all possible outage scenarios <u>and each contingency event shall be tested and loaded into the MMS database of the Market Operator. The MDOM solution shall provide an RTD which is a security-constrained dispatch schedule.</u> may occur during a particular trading interval.	Mr. Rosales expounded that the comment aims to clarify that the contingency list transmitted by the SO to the MO is for the MDOM to generate a security constrained dispatch schedule, not for power system security analysis.  Mr. Cacho concurred with the SO but stated that the contingencies are only fed into the MMS and not actually tested by the MO. Mr. Rosales	7.7.3 The <u>default</u> contingency list contains the definition of credible contingencies <u>as provided by the System Operator</u> for power system security analysis. It includes a list of (i.e. pre-defined outage scenarios) that are most likely to occur in the system in faulty conditions, identifying all possible outage scenarios <u>and each contingency event shall be tested and loaded into the MMS database of</u>

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			added that the SO is the one who tests each contingency and ranks them according to 'most severe' to 'least severe' in terms of their impact in the grid. Mr. Cacho therefore suggested to delete the word 'tested'. The RCC agreed with Mr. Cacho.	<u>the Market Operator. The MDOM solution shall provide an RTD which is a security-constrained dispatch schedule.</u> may occur during a particular trading interval.
	7.7.4 A contingency definition is relatively static with a given network model. This data does not change frequently. A default contingency definition is loaded into the MMS database upon database build. The contingency items are used in contingency analysis to evaluate the system operating condition when any of the outage scenarios happen.	<u>From the SO:</u>  <del>7.7.4 A contingency definition is relatively static with a given network model. This data does not change frequently. A default contingency definition is loaded into the MMS database upon database build. The contingency items are used in contingency analysis to evaluate the system operating condition when any of the outage scenarios happen.</del>	Mr. Cacho agreed for the deletion since the previous section already indicates that the contingency list is a default. The RCC adopted the SO's comment.	<del>7.7.4 A contingency definition is relatively static with a given network model. This data does not change frequently. A default contingency definition is loaded into the MMS database upon database build. The contingency items are used in contingency analysis to evaluate the system operating condition when any of the outage scenarios happen.</del>
	7.7.5 In coming up with a contingency list, the System Operator shall also look into the following considerations –  a) Loading limits of transmission lines, transformers and generating units; b) Single circuit outage (N-1) contingency including	<u>From the SO:</u>  7.7.5 In coming up with a contingency list, the System Operator shall also look into the following considerations –  a) Loading limits of transmission lines, transformers and generating units; b) Single circuit outage (N-1)	<u>From the TC:</u>  In coming up with a contingency list, the System Operator shall also look into the following considerations –  a) Loading limits of transmission lines, transformers and generating units;	<u>7.7.4</u> In coming up with a contingency list, the System Operator shall also look into the following considerations –  e) Loading limits of transmission lines, transformers and generating units; f) Single circuit outage (N-1) contingency including



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	loss of Interconnection; c) Selective multiple circuit outage with corresponding Special Protection Schemes (SPS); and d) Other forms of contingencies submitted by the System Operator.	contingency including loss of Interconnection; c) Selective multiple circuit outage with corresponding <del>Special Protection Schemes (SPS)</del> <u>Integrity Protection Scheme (SIPS)</u> ; and d) Other forms of contingencies submitted by the System Operator.  <i>Replace SPS with System Integrity Protection Scheme (SIPS). The SO is currently using SIPS.</i>		loss of Interconnection; g) Selective multiple circuit outage with corresponding <u>System Integrity Protection Scheme (SIPS)</u> Special Protection Schemes (SPS); and h) Other forms of contingencies submitted by the System Operator.  <i>Replace SPS with System Integrity Protection Scheme (SIPS). The SO is currently using SIPS.</i>
	7.7.7 The System Operator shall perform contingency planning for the morning and afternoon for the following day and the evening peak of the current day, as follows - Please refer to <b>ANNEX X</b>	<u>From the SO:</u> For deletion. Not in practice.  <u>From TC's Proposed Amendments to DP Manual 11:</u>  6.7 (see "Appendix A" - Table 1 WESM Tasks During Normal System Condition & Responsible Groups)  <i>Table 1 should be updated to reflect that SO is the one responsible for Contingency Planning instead of the MO, for consistency with Clause 3.1 of Appendix A.4.</i>	Mr. Rosales stated that the SO performs, as far as the context and purpose of the provision is concerned, contingency analysis, not contingency planning. The SO does perform contingency planning but this is a broader process that is not merely for the purpose of the SO's submission of required information to the MO for dispatch scheduling. Mr. Rosales added that contingency analysis is a process internal to the SO and need not be provided in the DP	<del>7.7.7 The System Operator shall perform contingency planning for the morning and afternoon for the following day and the evening peak of the current day, as follows -</del>  <b>ANNEX-X</b>

Title	Provisions from Proposed DPM 12	Comments		RCC Discussion (30 Mar 2016)	RCC-approved Provision
				Manual. Moreover, contingency analysis looks at multiple contingencies (e.g., N-2) that is not required by the MO, hence this procedure does not really impact the MO's scheduling process.  The RCC agreed to adopt the SO's comment.	
7.8 System Status	7.8.1 The System Operator shall provide power system snapshot data on the status of the power system and advisories on the anticipated condition of the power system to the Market Operator. The data to be provided covers the Luzon, Visayas and Mindanao grids.	<u>From the SO:</u>  7.8.1 The System Operator shall provide <del>power-system</del> snapshot data on the status of the power system and advisories on the anticipated condition of the power system <del>to the Market Operator</del> . The data to be provided covers the Luzon, Visayas and Mindanao grids.	<u>From TC's Proposed Amendments to DP Manual 11:</u>  <b>SYSTEM STATUS REPORT APPENDIX A.8</b>  The System Status Report shall include the System Snapshot of the <del>power-system-grid</del> as well as System Advisories issued by the <i>System Operator</i> pertaining to the anticipated condition of the Luzon, Visayas, and Mindanao <del>power-system</del> <b>grids</b> .	The RCC agreed with the revisions of the SO except, as suggested by Mr. Cacho, the deletion of the phrase 'to the Market Operator'.	7.8.1 The System Operator shall provide <del>power-system</del> <b>snapshot data</b> on the status of the power system and advisories on the anticipated condition of the power system to the Market Operator. The data to be provided covers the Luzon, Visayas and Mindanao grids.
	7.8.2 System Snapshot. The system snapshot depicts the status of individual power facilities in the grid. The system snapshot is collected via the System Operator's EMS/SCADA system and further processed/validated by its State Estimator	<u>From the SO:</u>  xxx  a) The system snapshot contains the following information – o Generator Unit MW and MVAR (analog measurements);	<u>From the TC's proposed amendments to the DP Manual 11:</u>  <b>CONTENTS OF SYSTEM STATUS REPORT</b>  4.1 A System Status Report contains the following	As comment to the SO's proposed item (b), Mr. Cacho expressed that it is the MNM that should be consistent with the system snapshot and not the other way around. The RCC thus agreed to adopt the SO's comment, as revised.	7.8.2 System Snapshot. The system snapshot depicts the status of individual power facilities in the grid. The system snapshot is collected via the System Operator's EMS/SCADA system and further processed/validated by its State Estimator program.



Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
	<p>program.</p> <p>a) The system snapshot contains the following information –</p> <ul style="list-style-type: none"> <li>• Generator Unit MW and MVAR (analog measurements)</li> <li>• Load MW and MVAR (analog measurements) and</li> <li>• Breaker Status</li> </ul> <p>b) The system snapshot must be consistent with the WESM Market Network Model (MNM).</p> <p>c) The system snapshot is an input to the Market Dispatch Optimization Model (MDOM) which calculates the WAP, DAP and RTD schedules. Specifically, the system snapshot data is used for the network configuration and nodal demand forecasting processes.</p>	<p>o Load MW and MVAR (analog measurements) and;</p> <p>o Breaker Status</p> <p>b) The <u>EMS</u> system snapshot must be <u>converted to match</u> consistent with the WESM Market Network Model (MNM).</p> <p>xxx</p>	<p>information:</p> <p><u>(a)</u> Snapshot of the power system <u>grid</u></p> <p><u>(b)</u> SO System Advisories on the anticipated condition of the power system <u>grid</u></p>	<p>a) The system snapshot contains the following information –</p> <ul style="list-style-type: none"> <li>o Generator Unit MW and MVAR (analog measurements);</li> <li>o Load MW and MVAR (analog measurements) and;</li> <li>o Breaker Status</li> </ul> <p>b) <u>The WESM Market Network Model (MNM) shall be consistent with the system snapshot.</u></p> <p>c) The system snapshot is an input to the Market Dispatch Optimization Model (MDOM) which calculates the WAP, DAP and RTD schedules. Specifically, the system snapshot data is used for the network configuration and nodal demand forecasting processes.</p>
	7.8.3 System Operator System Advisories. The System Operator system advisories contain other	<p><u>From the SO:</u></p> <p>7.8.3 System Operator System Advisories. The System Operator</p>	<p><u>From the TC's proposed amendments to the DP Manual 11:</u></p> <p>The SO's revision is aimed for clarity, which the RCC agreed to adopt.</p>	7.8.3 System Operator System Advisories. The System Operator system advisories contain other

Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
	information not included in the system snapshots. These are messages issued by the System Operator depicting particular issues regarding existing or anticipated status of the power system.	<p>system advisories contain other information not included in the <u>submission of</u> system snapshots. These are messages issued by the System Operator depicting particular <u>events or incidents that would transpire prior, during or after real time condition.</u> issues regarding existing or anticipated status of the power system.</p> <p><b>SO SYSTEM ADVISORIES</b></p> <p>4.3 The SO System Advisories contain other information not included in the system snapshots. These are messages issued by the System Operator depicting particular issues regarding existing or anticipated status of the power system <u>grid</u>.</p>		information not included in the <u>submission of</u> system snapshots. These are messages issued by the System Operator depicting particular <u>events or incidents that would transpire prior, during or after real time condition.</u> issues regarding existing or anticipated status of the power system.
7.10 Schedule Of Submission /Transmittal	<p>7.10.2 System status.</p> <p>a) System snapshots shall be transmitted to the Market Management System every five (5) minutes. To the extent practicable, the system snapshot data received no earlier than five (5) minutes before the start of the trading interval shall be used as input for the ex-ante or real-time dispatch (RTD) market run for that trading interval. The system snapshot received at the end of that trading interval shall be used for the ex-post or real-time ex-post (RTX) market run.</p> <p>b) System advisories are transmitted upon issuance. Such advisories are to be</p>	<p><u>From the SO:</u></p> <p>xxx</p> <p><del>b) System advisories are transmitted upon issuance. Such advisories are to be issued upon occurrence of significant events that have substantial impact to the operations of the power system and to the WESM in the trading intervals when and after such event occurred.</del></p>	Mr. Rosales stated the advisories of the SO are already explained in Section 7.8.3, hence the proposal to delete item (b). The RCC agreed to adopt the SO's comment.	<p>7.10.2 System status.</p> <p>a) System snapshots shall be transmitted to the Market Management System every five (5) minutes. To the extent practicable, the system snapshot data received no earlier than five (5) minutes before the start of the trading interval shall be used as input for the ex-ante or real-time dispatch (RTD) market run for that trading interval. The system snapshot received at the end of that trading interval shall be used for the ex-post or real-time ex-post (RTX) market run.</p> <p><del>b) System advisories are transmitted upon issuance. Such advisories are to be</del></p>



Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
	issued upon occurrence of significant events that have substantial impact to the operations of the power system and to the WESM in the trading intervals when and after such event occurred.			<del>issued upon occurrence of significant events that have substantial impact to the operations of the power system and to the WESM in the trading intervals when and after such event occurred.</del>
8.2 Scope And Purpose	8.2.1 The procedures and requirements set out in this Section shall be implemented in the in the preparation of the Week-Ahead (WAP) Market Projection and the Day-Ahead (DAP) Market Projection, collectively referred to in this Dispatch Protocol as the pre-dispatch market projections.	<u>From the SO:</u>  8.2.1 The procedures and requirements set out in this Section shall be implemented <del>in the</del> in the preparation of the Week-Ahead (WAP) Market Projection and the Day-Ahead (DAP) Market Projection, collectively referred to in this Dispatch Protocol as the pre-dispatch market projections.	The RCC accepted the SO's comment for proper grammar.	8.2.1 The procedures and requirements set out in this Section shall be implemented <del>in the</del> in the preparation of the Week-Ahead (WAP) Market Projection and the Day-Ahead (DAP) Market Projection, collectively referred to in this Dispatch Protocol as the pre-dispatch market projections.
8.3 Responsibilities	8.3.1 Market Operator. The Market Operator shall be responsible for the following –  a) Ensuring that the Week-Ahead Projection and Day-Ahead Projection market runs are carried out in accordance with the WESM timetable;  b) Publishing and disseminating the WAP and DAP results in accordance with the WESM timetable and	<u>From the SO:</u>  xxx  a. Ensuring <u>the timely preparation</u> of <del>that</del> the Week-Ahead Projection, <del>and</del> Day-Ahead Projection and Hour-Ahead projection market runs are carried out in accordance with the WESM timetable;  xxx	The RCC accepted the SO's revision, for clarity.	8.3.1 Market Operator. The Market Operator shall be responsible for the following –  a) Ensuring <u>the timely preparation</u> of <del>that</del> the Week-Ahead Projection, <del>and</del> Day-Ahead Projection and Hour-Ahead projection market runs are carried out in accordance with the WESM timetable;  b) Publishing and disseminating the WAP and

Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
	<p>with the procedures, requirements and conditions set out in WESM Rules Section 3.7 and other relevant clauses and this Section; and</p> <p>c) Maintaining the Market Management System (MMS) which is the infrastructure that is used to support the operations of the WESM, including, among other processes, the execution of the various market runs, the publication of market results to the Trading Participants and the System Operator, and the submission of data and other inputs from the System Operator and the Trading Participants.</p>			<p>DAP results in accordance with the WESM timetable and with the procedures, requirements and conditions set out in WESM Rules Section 3.7 and other relevant clauses and this Section; and</p> <p>c) Maintaining the Market Management System (MMS) which is the infrastructure that is used to support the operations of the WESM, including, among other processes, the execution of the various market runs, the publication of market results to the Trading Participants and the System Operator, and the submission of data and other inputs from the System Operator and the Trading Participants.</p>
8.6 Data Inputs/Information Requirements	<p>8.6.2 The data inputs for the market projections are as follows –</p> <p>a) Generation energy and reserve offers, target loading levels and demand bids</p> <p>b) Demand/load forecast determined in accordance with the WESM Load Forecasting Methodology</p> <p>c) System snapshot</p>	<p><u>From the SO:</u></p> <p>xxx</p> <p>a) Generation energy and reserve offers, target loading levels and demand bids</p> <p>b) Demand/load forecast determined in accordance with the WESM Load Forecasting Methodology</p> <p>c) System snapshot</p> <p>d) Outage schedules</p> <p>e) Reserve Requirements</p> <p>f) Contingency list</p>	<p>The RCC agreed with the SO's proposed revisions, but replaced 'Overriding Constraint Limits' with 'Overriding Constraints'.</p>	<p>8.6.2 The data inputs for the market projections are as follows –</p> <p>a) Generation energy and reserve offers, target loading levels and demand bids</p> <p>b) Demand/load forecast determined in accordance with the WESM Load Forecasting Methodology</p> <p>c) System snapshot</p>



Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
	d) Outage schedules e) Reserve Requirements f) Contingency list g) Transmission limits h) Security limits i) Load pattern data determined in accordance with the WESM Load Forecasting Methodology j) System advisories	g) Transmission limits h) <del>Security limits</del> <b>Overriding Constraint limits</b> i) <del>Load pattern data determined in accordance with the WESM Load Forecasting Methodology</del> j) System advisories		d) Outage schedules e) Reserve Requirements f) Contingency list g) Transmission limits h) <del>Security limits</del> <b>Overriding Constraints</b> i) <del>Load pattern data determined in accordance with the WESM Load Forecasting Methodology</del> j) <del>i) System advisories</del>
8.8 Publication And Dissemination Of WAP And DAP Results	8.8.3 If the market run results indicate that nodal energy prices are expected to be equal to, or exceed, nodal VoLL at any customer nodes in the market network model, the System Operator shall be notified of the likelihood of initiating load shedding at those nodes through a market advisory which shall be transmitted in the format set out in Attachment 8B.	<u>From the SO:</u>  <del>8.8.3 If the market run results indicate that nodal energy prices are expected to be equal to, or exceed, nodal VoLL at any customer nodes in the market network model, the System Operator shall be notified of the likelihood of initiating load shedding at those nodes through a market advisory which shall be transmitted in the format set out in Attachment 8B.</del>	Mr. Rosales agreed to retain the original proposed provision since it pertains to the responsibility of the MO. The RCC concurred, but as Mr. Cacho recommended, agreed to replace the term 'load shedding' with 'loss of load'.	8.8.3 If the market run results indicate that nodal energy prices are expected to be equal to, or exceed, nodal VoLL at any customer nodes in the market network model, the System Operator shall be notified of the likelihood of initiating <del>load shedding</del> <b>loss of load</b> at those nodes through a market advisory which shall be transmitted in the format set out in Attachment 8B.
9.4 MARKET DISPATCH OPTIMIZATION MODEL (MDOM)	9.4.3 The energy dispatch schedule is the target loading level in MW for each scheduled generating unit or scheduled load to be met at the end of a trading interval. The Generators shall ramp-	<u>From Vivant:</u>  <i>We note that the foregoing sections (9.4.3; 11.1.2; 11.4.1a) are all consistent with the intent to have dispatched trading participants are required to achieve a linear ramp up to meet their target levels by the end of the interval. We note that this seems to conflict with provision 11.4.1.3 that states:</i>	The RCC duly noted Vivant's comment. Mr. Rosales explained that the prevailing practice is the generators should first await the SO's instructions to ramp up or down <i>linearly</i> before doing so,	9.4.3 The energy dispatch schedule is the target loading level in MW for each scheduled generating unit or scheduled load to be met at the end of a trading interval. The Generators shall ramp-up

Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
	up or ramp-down linearly to their target loading level. Deviations from these target loading levels will be measured in terms of MWhr subject to the compliance with the dispatch tolerance standards	<p><i>"System Operator Clearance. Upon receipt of their respective dispatch schedules, the Trading Participants shall communicate with the System Operator and seek prior clearance before ramping up or down to their respective target loading levels. The System Operator shall provide clearance and issue dispatch instructions as it deems appropriate."</i></p> <p><i>We are of the opinion that a trading participant, once it receives its dispatch instructions should already start to in accordance with their dispatch schedule to meet their dispatch targets. As stated in 11.4.1.a. that the generating units should only vary if they receive a re-dispatch instruction. It is redundant that a generator still needs to seek further clearance from the SO upon the receipt of their respective dispatch schedules. (as alluded to in 11.4.1.3.).</i></p>	<p>which is stipulated in the subject provision.</p> <p>The body agreed to retain the original proposed provision.</p>	or ramp-down linearly to their target loading level. Deviations from these target loading levels will be measured in terms of MWhr subject to the compliance with the dispatch tolerance standards
<p><b>10. PREPARATION AND USE OF THE WESM MERIT ORDER TABLE</b></p> <p>10.1 BACKGROUND</p>	10.1.3 The System Operator utilizes the MOT of Offers Dispatched as a guide in determining which generating units may be constrained-off, whereas the MOT of Offers Not Dispatched is a guide for determining which generating units may be constrained-on for a particular trading interval.	<p><b>From the SO:</b></p> <p>10.1.3 The System Operator utilizes the MOT of Offers Dispatched as a guide in determining which generating units may be constrained<del>ed</del>-off, whereas the MOT of Offers Not Dispatched is a guide for determining which generating units may be constrained<del>ed</del>-on for a particular trading interval.</p>	The RCC agreed to retain the original proposed provision for proper grammar.	10.1.3 The System Operator utilizes the MOT of Offers Dispatched as a guide in determining which generating units may be constrained-off, whereas the MOT of Offers Not Dispatched is a guide for determining which generating units may be constrained-on for a particular trading interval.
10.2 PURPOSE AND SCOPE	10.2.1 This Section sets out the requirements and procedures for the preparation and use of the WESM Merit Order Table (MOT) in the dispatch of generating units.	<p><b>From the TC:</b></p> <p><i>The section did not cover the requirements and procedures for the preparations and use of the MOT for reserve market.</i></p> <p><i>Suggest to clarify if the MOT is specifically for energy market only and/or if there will be another set of MOT for reserve.</i></p>	<p>Mr. Cacho clarified that the MOT is for the energy market only.</p> <p>The RCC duly noted the TC's comment.</p>	10.2.1 This Section sets out the requirements and procedures for the preparation and use of the WESM Merit Order Table (MOT) in the dispatch of generating units.



Title	Provisions from Proposed DPM 12	Comments		RCC Discussion (30 Mar 2016)	RCC-approved Provision
10.4 TIMELINE OF THE PREPARATION OF THE MOT	<p>10.4.1 The System Operator shall prepare the MOT for each trading interval right after the completion of the RTD market run workflow for that trading interval, and shall immediately transmit the same to the System Operator through the EMS-MMS data exchange facility. The timeline is illustrated as follows, where "XX" refers to the trading interval to which the MOT will apply.</p> <p><i>Please refer to ANNEX XXIV</i></p>	<p><b>From the SO:</b></p> <p>10.4.1 The <del>System-Market</del> Operator shall prepare the MOT for each trading interval right after the completion of the RTD market run workflow for that trading interval, and shall immediately transmit the same to the System Operator through the EMS-MMS data exchange facility. The timeline is illustrated as follows, where "XX" refers to the trading interval to which the MOT will apply.</p>		The RCC agreed with the SO's proposed revision, as affirmed by Mr. Cacho.	10.4.1 The <del>System-Market</del> Operator shall prepare the MOT for each trading interval right after the completion of the RTD market run workflow for that trading interval, and shall immediately transmit the same to the System Operator through the EMS-MMS data exchange facility. The timeline is illustrated as follows, where "XX" refers to the trading interval to which the MOT will apply.
10.6 PREPARATION OF THE MOT	<p>10.6.1 The MOT shall include the following –</p> <p>a. All generating units for which offers have been submitted for the relevant trading interval; and</p> <p>b. All generating units which have been scheduled or included in the RTD schedule but which did not submit offers for that trading interval.</p>	<p><b>From the SO:</b></p> <p>xxx</p> <p>b. All generating units which have been scheduled or included in the RTD schedule <u>as a result of imposition of overriding constraint limit</u> but <u>with or without offers submitted</u> which did not submit offers for that trading interval.</p>	<p><b>From the TC:</b></p> <p><i>Suggest to clarify whether preferential dispatch plants are included in the MOT as provided in the section.</i></p>	<p>Pertaining to item (b), Mr. Rosales stated that there is no way a generator that did not submit an offer can be included in the RTD, unless overriding constraints are imposed.</p> <p>In response to the TC's comment, preferential dispatch plants are automatically included in the MOT.</p> <p>The RCC agreed to adopt the SO's comment, as revised.</p>	<p>10.6.1 The MOT shall include the following –</p> <p>a. All generating units for which offers have been submitted for the relevant trading interval; and</p> <p>b. All generating units which have been scheduled or included in the RTD schedule <u>as a result of imposition of overriding constraints, with or without offers submitted</u> which did not submit offers for that trading interval.</p>

Title	Provisions from Proposed DPM 12	Comments		RCC Discussion (30 Mar 2016)	RCC-approved Provision
10.8 USE OF THE MOT	10.8.1 The System Operator shall use the MOT in cases where the regulating reserve capacity has already been depleted and where the frequency has already gone beyond standards set in the Philippine Grid Code.	<p><u>From the SO:</u></p> <p>10.8.1 The System Operator shall use the MOT <u>as reference whenever there's a requirement to constrain on or constrain off the dispatch schedule.</u> However, the System Operator may resort in an out-of merit dispatch whenever the grid frequency is beyond the normal threshold. In cases where the regulating reserve capacity has already been depleted and where the frequency has already gone beyond standards set in the Philippine Grid Code.</p>	<p><u>From the TC:</u></p> <p>10.8.1 The System Operator shall use the MOT in cases where the regulating <u>contingency</u> reserve capacity has already been depleted and where the frequency has already gone beyond standards set in the Philippine Grid Code.</p> <p><i>Consistent with the current SO practice, MOT should only be applied when Contingency Reserve is already depleted.</i></p>	With Mr. Cacho's concurrence, the RCC agreed to adopt the SO's comment.	10.8.1 The System Operator shall use the MOT <u>as reference whenever there's a requirement to constrain on or constrain off the dispatch schedule.</u> However, the System Operator may resort in an out-of merit dispatch whenever the grid frequency is beyond the normal threshold. In cases where the regulating reserve capacity has already been depleted and where the frequency has already gone beyond standards set in the Philippine Grid Code
	<p>10.8.2 The System Operator shall provide a post-dispatch report(s) to the Market Operator containing information on the use of the MOT in aid of monitoring each generator's dispatch. Such reports should be able to identify, but not limited to, the following:</p> <p>a. Non-compliance to</p>	<p><u>From the SO:</u></p> <p>10.8.2 The System Operator shall provide a post-dispatch report(s) to the Market Operator containing <u>deviation from RTD versus actual dispatch</u> information on the use of the MOT in aid of monitoring each generator's dispatch. Such reports should be able to identify, but not limited to, the following:</p> <p>xxx</p>		The RCC agreed with the SO's revision, as amended per Mr. Cacho's suggestion.	10.8.2 The System Operator shall provide a post-dispatch report(s) to the Market Operator containing <u>deviation of actual dispatch from the RTD schedule</u> information on the use of the MOT in aid of monitoring each generator's dispatch. Such reports should be able to identify, but not limited to, the following



APPENDIX A

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Title	Provisions from Proposed DPM 12	Comments	RCC Discussion (30 Mar 2016)	RCC-approved Provision
	dispatch instructions b. Designation of must-run units c. Utilized for ancillary services d. Testing Requirement e. Generator limitation			



## ANNEX I

DAY	TIME	ACTIVITY	From	To	PERIOD COVERED
D	0855H	Retrieve System Snapshot from EMS	SO	MO	0855H of D-7
		<u>MO to determine the Reserve Requirement</u>			
D	Before 0855H	Retrieve Other Information from SO re:  1. Reserve Requirements 2. Outage Schedules 3. Transmission Limits 4. Security Limits	SO	MO	7 Days Ahead  168 Hours (=7x24)  D+1 to D+7
D	Before 0800H	Gather Weather Forecast	MO		7 Days Ahead  168 Hours (=7x24)  D+1 to D+7
D	Before 0855H	Perform Demand Forecast	MO		7 Days Ahead  168 Hours (=7x24)  D+1 to D+7
D	Before 0900H	MDOM Refinements <sup>1</sup>  <sup>1</sup> Changes to Settings in MDOM	MO		7 Days Ahead  168 Hours (=7x24)  D+1 to D+7
D	Before 0900H	Bids & Offers Submission  TP's may submit Bids/Offer for the Study Horizon thru either the <u>Daily Bid</u> or <u>Standing Bid</u> formats.  Bids/Offer must be effective prior to WAP execution.	TP's	MO	7 Days Ahead  168 Hours (=7x24)  D+1 to D+7
D	0900H	Perform WAP	MO		7 Days Ahead  168 Hours (=7x24)  D+1) to D+7



## APPENDIX B

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DAY	TIME	ACTIVITY	From	To	PERIOD COVERED
D	0900H to 1700H	WAP Results Analysis and Coordination with SO	MO	SO	7 Days Ahead 168 Hours (=7x24) D+1 to D+7
D	1700H	Publish WAP Results to the WESM Market Information Website and MPI <sup>2</sup>  <sup>2</sup> MPI refers to the Market Participant Interface, which is a secured website used by the Trading Participants in their daily transactions with the WESM such as in the submission of offers, viewing of market results, etc. It is managed by the Market Operator.	MO	TP's	7 Days Ahead 168 Hours (=7x24) D+1 to D+7

## ANNEX II

DAY	EXECUTION TIME (T)	PERIOD COVERED OR HORIZON
D	0400H	0500H to 2400H of D
D	0800H	0900H to 2400H of D
D	1200H	1300H of D to 2400H of D+1
D	1600H	1700H of D to 2400H of D+1
D	2000H	2100H of D to 2400H of D+1
D	2400H	0100H to 2400H of D+1

## ANNEX III

DAY	TIME	ACTIVITY	From	To	PERIOD COVERED
D	T – 5 min	Retrieve System Snapshot from EMS	SO	MO	T – 5 min of D
		<b><u>MO to determine the Reserve Requirement</u></b>			
D	Before T – 5 min	Retrieve Other Information from SO re: 1. Reserve Requirements 2. Outage Schedules 3. Contingency Lists 4. Transmission Limits 5. Security Limits	SO	MO	For the Study Horizon
D	Before T – 5 min	Bids & Offers Submission  TP's may submit Bids/Offer for the Study Horizon thru either the <u>Daily Bid</u> or <u>Standing Bid</u> formats.  Bids/Offer must be effective prior to DAP execution.	TP's	MO	For the Study Horizon
D	Before T	Gather Weather Forecast	MO		For the Study Horizon
D	Before T	Perform Demand Forecast	MO		For the Study Horizon
D	Before T	MDOM Refinements	MO		For the Study Horizon
	T	Perform DAP	MO		Study Horizon
D	T to (T+1Hour)	DAP Results Analysis and Coordination with SO	MO	SO	For the Study Horizon
D	T + 1Hour	Publish DAP Results to the WESM Market Information Website and MPI	MO	TP's	For the Study Horizon



## ANNEX IV

DAY	TIME	ACTIVITY	From	To	PERIOD COVERED
D	T – 5 min	Retrieve System Snapshot from EMS	SO	MO	T – 5 min of D
		<u>MO to determine the Reserve Requirement</u>			
D	Before T – 5 min	Retrieve Other Information from SO re: 1. Reserve Requirements 2. Outage Schedules 3. Contingency Lists 4. Transmission Limits 5. Security Limits	SO	MO	T + 1 hour ( Hour Ahead )
D	Before T – 5 min	Bids & Offers Submission  TP's may submit Bids/Offer for the Study Horizon thru either the <u>Daily Bid</u> or <u>Standing Bid</u> formats.  Bids/Offer must be effective prior to RTD execution.	TP's	MO	T + 1 hour ( Hour Ahead )
D	T – 5 min	Perform Nodal Demand Forecast	MO		T + 1 hour ( Hour Ahead )
D	Before T – 5 min	MDOM Refinements	MO		T + 1 hour ( Hour Ahead )
D	T – 4.5 min	Perform RTD	MO		T + 1 hour ( Hour Ahead )
D	Before T	Transmittal of Energy and Reserve Schedules, and Merit Order Table	MO	SO	T + 1 hour ( Hour Ahead )
D	Before T	<del>Security Analysis and Issuance of Energy and Reserve Schedules</del>  <u>Validate dispatch schedule if necessary and issue dispatch instructions</u>	SO	TP's	T + 1 hour ( Hour Ahead )
D	T	Publish RTD Results to the MPI	MO	TP's	T + 1 hour ( Hour Ahead )

## APPENDIX B

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## ANNEX V

DAY	TIME	ACTIVITY	From	To	PERIOD COVERED
D	Before T	Retrieve System Snapshot from EMS	SO	MO	T(end of trading interval)
D	Before T	<del>MO to</del> retrieve Other Information from RTD Save Case:  1. Reserve Requirements  2. Outage Schedules  3. Contingency Lists  4. Transmission Limits  5. Security Limits			T
D	Before T	MDOM Refinements	MO		T
D	T	Perform RTX	MO		T
D	T+5 min	Publish RTX Results to the MPI	MO	TP's	T



## ANNEX VI

ACTIVITY/PROCEDURE	DOCUMENT
Submission and Processing of Bids and Offers	Dispatch Protocol
Demand forecasting	Other Market Manual
System Operator Data Inputs and Reports – <ul style="list-style-type: none"> <li>Contingency</li> <li>Outage</li> <li>Security limits</li> <li>Transmission limits</li> <li>System snapshot</li> <li>System advisories</li> </ul>	Dispatch Protocol
Pre-dispatch market projections <ul style="list-style-type: none"> <li>Week-ahead projections (RTD) (WAP)</li> <li>Day-ahead projections (DAP)</li> </ul>	Dispatch Protocol
Real-time dispatch scheduling <ul style="list-style-type: none"> <li>Ex-ante or real-time dispatch (RTD)</li> <li>Ex-post or real-time ex-post (RTX)</li> </ul>	Dispatch Protocol
Preparation and use of the WESM Merit Order Table (MOT)	Dispatch Protocol
Dispatch implementation	Dispatch Protocol
Start-up and Shutdown of Generating Units	Dispatch Protocol
Management of Must Run and Must Stop Units	Other manual
Management of load shedding	Other manual
Emergency procedures	Other manual
Management of excess generation	Other manual
Scheduling and dispatch of reserves <ul style="list-style-type: none"> <li>Determination of reserve requirements</li> <li>Reserve providers monitoring</li> <li>Reserve effectiveness factors</li> </ul>	Dispatch Protocol
Post-dispatch reporting	Dispatch Protocol Other Market Manual
Procedures during Market Intervention and Suspension	Dispatch Protocol
Market Operator Information Disclosure and Confidentiality	Other manual

## ANNEX VII

Type of Day	Label (in MMS)
Holiday	HOL
All days in a week	ALL
Specific day of the week	MON.....SUN

## ANNEX VIII

Bid Type	Reference Attachment
Real Time Energy	Attachment 6A
Operating Reserves	Attachment 6B
Demand Bids	Attachment 6C
Non-Scheduled Generation Scheduled Loading Levels	Attachment 6D

## ANNEX IX

Criteria	Deviation
Registration Data	Actual $RR_{demand}$ , $RR_{up}$ , $P_{min}$ or $P_{max}$ differ by more than 10% from registered data unless facilities are on outage.
System Status	Status of generating or load resource facilities conflict with Bid/Offer submissions for a specific trading interval.
Scheduled and Forced Outage	Outage schedule or events conflict with Bid/Offer submissions for a specific trading interval.
Contingency Plans	Actual $P_{min}$ or $P_{max}$ differ by more than 10% from registered data due to contingency or emergency actions by SO.



**ANNEX X**

Target Period	Of	Basis
Morning Peak	Day +1	Results of DAP at 1600H-0400H
Afternoon Peak	Day +1	Results of DAP at 1600H-0800H
Evening Peak	Current Day	Results of DAP at 0800H-1600H

