**Name of Stakeholder: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**WESM Rules**

| **Clause** | **Original Provision** | **Proposed Amendment** | **Rationale** | **Comment /**  **Proposed Revision** | **Original Provision** |
| --- | --- | --- | --- | --- | --- |
| 3.2.1.5 | Any alteration under Clause 3.2.1.4 shall be implemented in accordance with the established *Information and Communications Technology Change Management Process (ICMP)* of the *Market Operator*. The *Market Operator* shall regularly inform the *PEM Board* of any changes made to the *Market Network Model*. | **Except for integration of new network, other** alteration under Clause 3.2.1.4 shall be implemented in accordance with the established **business processes** ~~Information and Communications Technology Change Management Process (ICMP)~~ of the *Market Operator*. The *Market Operator* shall regularly inform the *PEM Board* of any changes made to the *Market Network Model*. | To clarify that the basis providing the procedures for implementing changes in the Market Network Model (MNM) is no longer the MO’s Information and Communications Technology Change Management Process (ICMP) but rather its internal business process. Except for the integration of new networks, changes to the MNM shall no longer be approved by the PEM Board, as specified in the ICMP, since the new MMS is capable of changing or updating the MNM as near-to-real-time as possible. Further, changes to the MNM are not changes to the market system or software, rather, are changes to the NMMS inputs, i.e. the MNM |  |  |
| 3.5.13.1 | xxx  The *System Operator* shall advise the *Market Operator* of the actions it has taken in relation to the foregoing, including but not limited to information necessary for the proper settlement of affected *generating units*, and the *Market Operator* shall publish the said information no later than one (1) week from the relevant trading day. For proper settlement of must-run units, *Trading Participants* shall review the information and notify the *Market Operator* of any discrepancies no later than two (2) weeks from the date of publication, otherwise the information contained in the report shall be deemed final for use in the settlement of *must-run units*. | xxx  The *System Operator* shall advise the *Market Operator* of the actions it has taken in relation to the foregoing, including but not limited to information necessary for the proper settlement of affected *generating units*, and the *Market Operator* shall publish the said information no later than one (1) week from the relevant trading day. ~~For proper settlement of must-run units,~~ *Trading Participants* shall review the information and notify the *Market Operator* of any discrepancies no later than two (2) weeks from the date of publication, otherwise the information contained in the report shall be deemed final**.** ~~for use in the settlement of~~ *~~must-run units~~*~~.~~ | * To reinforce responsibility of Trading Participants (TP) in reporting their limitations if unable to follow RTD schedule and to encourage TP’s active review of SO reports as part of their responsibilities. * To be consistent with the proposed change of SO’s reporting of their dispatch instructions, containing all dispatch instructions from the System Operator (e.g. dispatch of must-run units), instead of dispatch deviations of generating units. Further, per proposed changes in DP Section 14.4.7, the SO Report will be named as “Dispatch Instruction Report”. |  |  |
| 3.8.2 | 3.8.2.2 After each one (1) hour interval, in accordance with the *timetable*, the *System Operator* shall advise the *Market Operator* of:  a. xxx  xxx  The *System Operator* shall likewise provide a *dispatch* deviation report to the *Market Operator*, in accordance with the *timetable,* detailing among others the circumstances and *dispatch* levels of units that were *constrained-on* or *constrained-off* or put on must-run during that one (1) hour *interval*. | 3.8.2.2 After each one (1) hour interval, in accordance with the *timetable*, the *System Operator* shall advise the *Market Operator* of:  a. xxx  xxx  The *System Operator* shall likewise provide a *dispatch* ~~deviation~~ ***instruction*** report to the *Market Operator*, in accordance with the *timetable,* detailing among others the circumstances and *dispatch* levels of units that were *constrained-on* or *constrained-off* or put on must-run during that one (1) hour *interval*. | To change of report name to Dispatch Instruction Report consistent with proposed changes to WESM DP |  |  |
| 3.8.3.4 | Subject to Clause 3.8.3.4, if, in real-time, the available *generation* from a *must dispatch generating unit* differs from the available *generation* assumed in the *dispatch schedule* provided to the *System Operator*, the *System Operator* shall allow the *must dispatch generating unit* to generate at its *maximum available output*, and, if all available *frequency* regulation is exhausted during a *dispatch interval*, shall adjust the *dispatch* of other *generating units,* to compensate as required in accordance with relevant *Market Manuals.* | Subject to Clause 3.8.3.~~4~~**3**, if, in real-time, the available *generation* from a *must dispatch generating unit* differs from the available *generation* assumed in the *dispatch schedule* provided to the *System Operator*, the *System Operator* shall allow the *must dispatch generating unit* to generate at its *maximum available output*, and, if all available *~~frequency~~* ~~regulation is~~ ***regulating reserves* are** exhausted during a *dispatch interval*, shall adjust the *dispatch* of other *generating units,* to compensate as required in accordance with relevant *Market Manuals.* | Revised reference clause to 3.8.3.3.  To be consistent with the proposed changes in the WESM Manual on Dispatch Protocol Section 11.5.2. |  |  |
| 3.8.5 | 3.8.5.6 In cases when a *generating unit* was identified as a *Must-Stop Unit*, the *System Operator* shall include such in the Dispatch Deviation Report. | 3.8.5.6 In cases when a *generating unit* was identified as a *Must-Stop Unit*, the *System Operator* shall include such in the Dispatch ~~Deviation~~ **Instruction** Report. | To change report name to Dispatch Instruction Report consistent with proposed changes to the WESM Manual on Dispatch Protocol. |  |  |
|  | xxxx  Contingency Reserve. The ability to respond so as to arrest a significant drop in system frequency such as would arise as a result of a credible contingency affecting one (or more) *generating units* within a region, or transmission flows into a region.  xxxx  Dispatchable Reserve. The ability to respond to a re-dispatch performed by the *System operator* during a *trading interval*, on either a regular or an ad hoc basis.  xxxx  Regulating Reserve. The ability to adjust generation continuously in response to small frequency changes, so a so as to cover load fluctuations or minor breakdowns, defined as an *ancillary service* in clause 3.3.4.2 (a). | xxxx  Contingency Reserve. ~~The ability to respond so as to arrest a significant drop in system frequency such as would arise as a result of a credible contingency affecting one (or more)~~ *~~generating units~~* ~~within a region, or transmission flows into a region.~~**Synchronized generation capacity from qualified *generating units* and qualified *interruptible loads* allocated to cover the loss or failure of a synchronized *generating unit* or a transmission element or the power import from a circuit interconnection.**  xxxx  Dispatchable Reserve. ~~The ability to respond to a re-dispatch performed by the~~ *~~System operator~~* ~~during a~~ *~~trading interval~~*~~, on either a regular or an ad hoc basis.~~**Generating capacity that is not scheduled for regular *energy* supply, *regulating reserve*, *contingency reserve*, or *interruptible loads* not scheduled for *contingency reserve*, and that are readily available for dispatch in order to replenish the *contingency reserve* service whenever a *generating unit* trips or a loss of a single transmission interconnection occurs.**  xxxx  Regulating Reserve. ~~The ability to adjust generation continuously in response to small frequency changes, so a so as to cover load fluctuations or minor breakdowns, defined as an~~ *~~ancillary service~~* ~~in clause 3.3.4.2 (a).~~**Readily available and dispatchable generating capacity that is allocated exclusively to correct deviations from the acceptable nominal *frequency* caused by unpredicted variations in demand or *generation* output.** | To harmonize with DOE DC2019-12-0018 (regulating, contingency, dispatchable). |  |  |

**WESM Manual on Dispatch Protocol**

| **Section** | **Original Provision** | **Proposed Amendment** | **Rationale** | **Comment /**  **Proposed Revision** | **Rationale** |
| --- | --- | --- | --- | --- | --- |
| 2.1.2 | (New terms) | The following words and phrases as used in this *Market Manual* shall have the following meaning:  **a. Ancillary Service Procurement Agreement.** **A contractual agreement under which a *WESM Member*, registered as an *Ancillary Service Provider*, agrees with the *System Operator* to provide *ancillary services*.**  **b. Automatic Generation Control. The automatic regulation of the power output of *generating units* to respond to a change in system frequency or tie-line loading, as defined in the *Grid* *Code*, or to meet its *target loading level*.**  ~~a.~~ **c.** Automatic Load Dropping (ALD). xxx  ~~b.~~ **d.** Availability. xxx  ~~c.~~ **e.** Bid. xxx  ~~d.~~ **f.** Capability. xxx  ~~e.~~ **g.** Cascading Outages.xxx  ~~f.~~ **h.** Contingency. xxx | * To add definition of an ancillary service procurement agreement, which will be referred to in later sections. * To add definition of automatic generation control, which will be referred to in later sections. |  |  |
|  | XXX  u. **Primary Reserve.** Synchronized generating capacity that is allocated to stabilize the system *frequency* and to cover the loss or failure of a synchronized *generating unit* or a *transmission line* or the power import from a single circuit interconnection, as defined in the *Grid Code*. Also referred to as *contingency reserves*.  XXX  w. **Red Alert.** An alert issued by the *System Operator* when the *Primary Reserve* is zero, a *generation* deficiency exists, or there is critical loading or imminent overloading of *transmission lines* or equipment.  XXX  x. **Secondary Reserve.** Synchronized generating capacity that is allocated to restore the system frequency to the nominal *frequency* of 60Hz, as defined on the Grid Code. Also referred to as *regulating reserves*.  XXX  ff. **System Snapshot.** Otherwise known as EMS Snapshot. The *system snapshot* contains MW loadings of *generators* and *loads.* The *system snapshot* also indicates connection status of the power system.  XXX  hh. **Tertiary** **Reserve.** Capacity used in order to replenish the *Secondary Reserve* and for such other cases, as defined in the *Grid Code.* | xxx  ~~u.~~ **i.** **~~Primary~~ Contingency Reserve.** ~~Synchronized generating capacity that is allocated to stabilize the system~~ *~~frequency~~* ~~and to cover the loss or failure of a synchronized~~ *~~generating unit~~* ~~or a~~ *~~transmission line~~* ~~or the power import from a single circuit interconnection, as defined in the~~ *~~Grid Code~~*~~. Also referred to as~~ *~~contingency reserves~~*~~.~~ **Synchronized generation capacity from qualified *generating units* and qualified *interruptible loads* allocated to cover the loss or failure of a synchronized *generating unit* or a transmission element or the power import from a circuit interconnection.**  ~~g.~~ **j.** Demand Control. xxx  ~~h.~~ **k.** Demand Control Imminent Warning. xxx  ~~hh.~~ **l.** **~~Tertiary~~ Dispatchable Reserve.** ~~Capacity used in order to replenish the~~ *~~Secondary Reserve~~* ~~and for such other cases, as defined in the~~ *~~Grid Code.~~* **Generating capacity that is not scheduled for regular *energy* supply, *regulating reserve*, *contingency reserve*, or *interruptible loads* not scheduled for *contingency reserve*, and that are readily available for dispatch in order to replenish the *Contingency Reserve* service whenever a *generating unit* trips or a loss of a single transmission interconnection occurs.**  ~~i.~~ **m.** Disturbance. xxx  ~~j.~~ **n.** Frequency control. xxx  ~~k.~~ **o.** Generator. xxx  ~~l.~~ **p.** Load shedding. xxx  ~~m.~~ **q.** Manual Load Dropping. xxx  ~~n~~ **r.** Market Management System (MMS). xxx  ~~o.~~ **s.** Maximum available capacity. xxx  ~~p.~~ **t.** MMS-Market Participant Interface (MPI). xxx  ~~q.~~ **u.** Multiple Outage Contingency. xxx  ~~r.~~ **v.** Offer. xxx  ~~s.~~ **w.** Operating margin. xxx  ~~t.~~ **x.** Preferential Dispatch Units. xxx  ~~ff.~~ **y. ~~System Snapshot~~** **Real-Time Data.** ~~Otherwise known as EMS Snapshot. The~~ *~~system snapshot~~* ~~c~~**C**ontains **analog measurements *(***MW ~~loadings~~ **and MVAR)**of *generators* and *loads~~.~~,* ~~The~~ *~~system snapshot~~* ~~also indicates~~ **and the** connection status of ~~power system~~ **breakers and disconnect switches**.  ~~v.~~ **z.** Real-Time Dispatch. xxx  ~~w.~~ **aa.** Red Alert. An alert issued by the *System Operator* when the *~~Primary~~* ***Contingency*** *Reserve* is zero, a *generation* deficiency exists, or there is critical loading or imminent overloading of *transmission lines* or equipment.  ~~x.~~ **bb.** **~~Secondary~~ Regulating Reserve.** ~~Synchronized generating capacity that is allocated to restore the system frequency to the nominal~~ *~~frequency~~* ~~of 60Hz, as defined on the Grid Code. Also referred to as~~ *~~regulating reserves~~*~~.~~ **Readily available and dispatchable generating capacity that is allocated exclusively to correct deviations from the acceptable nominal *frequency* caused by unpredicted variations in demand or *generation* output.**  ~~y.~~ **cc.** Security.xxx  ~~z.~~ **dd.** Self-scheduled nomination. xxx  ~~aa.~~ **ee.** Shutdown. xxx  ~~bb.~~ **ff.** Stability. xxx  ~~cc.~~ **gg.** Start-up.xxx  ~~dd.~~ **hh.** System Integrity Protection Scheme (SIPS).xxx  ~~ee.~~ **ii.** System Operator System Advisories.xxx  ~~ff. System Snapshot. xxx~~  ~~gg.~~ **jj.** Technical Constraint. xxx  ~~hh.~~~~Tertiary Reserve. xxx~~  ~~ii.~~ **kk.** Voltage Control.xxx  ~~jj.~~ **ll.** Voltage Instability.xxx  ~~kk.~~ **mm.** Voltage Sag.xxx | * To harmonize with DOE DC2019-12-0018 (regulating, contingency, dispatchable). This is the definition of Contingency reserve in said DOE DC. * To harmonize with DOE DC2019-12-0018 (regulating, contingency, dispatchable). This is the definition of Dispatchable reserve in said DOE DC. * To reflect change in type of data received with the use of Inter-Control Centre Communications Protocol (ICCP) of the NMMS. * To harmonize with DOE DC2019-12-0018 (regulating, contingency, dispatchable). This is the definition of Regulating reserve in said DOE DC. | Adopt |  |
| 4.4 | Table 2. DAP Timeline   | **Time** | **Activity** | **Responsible Party** | | --- | --- | --- | | XXX | XXX | *XXX* | | Before [STPH1 + 1 minute] | Provide updates on the following, if any:   1. *XXX* 2. *XXX* 3. *XXX* 4. *XXX* 5. *Real-time system snapshot* 6. *XXX* 7. XXX | *System Operator* | | XXX | XXX | *XXX* | | XXX | XXX | *XXX* | | XXX | XXX | *XXX* | | XXX | *XXX* | | Table 2. DAP Timeline   | **Time** | **Activity** | **Responsible Party** | | --- | --- | --- | | XXX | XXX | *XXX* | | Before [STPH1 + 1 minute] | Provide updates on the following, if any:   1. *XXX* 2. *XXX* 3. *XXX* 4. *XXX* 5. *Real-time ~~system snapshot~~* ***data*** 6. *XXX* 7. XXX | *System Operator* | | XXX | XXX | *XXX* | | XXX | XXX | *XXX* | | XXX | XXX | *XXX* | | XXX | *XXX* | | To reflect change in type of data received with the use of ICCP of the NMMS | Adopt |  |
| 4.5 | Table 4. HAP Timeline   | **Time** | **Activity** | **Responsible Party** | | --- | --- | --- | | XXX | XXX | *XXX* | | Before [STDI1 – 7 minutes] | Provide updates on the following, if any:   * *XXX* * *XXX* * *XXX* * *XXX* * *XXX* * *Real-time system snapshot* | *System Operator* | | XXX | XXX | *XXX* | | XXX | XXX | *XXX* | | XXX | XXX | *XXX* | | XXX | *XXX* | | Table 4. HAP Timeline   | **Time** | **Activity** | **Responsible Party** | | --- | --- | --- | | XXX | XXX | *XXX* | | Before [STDI1 – 7 minutes] | Provide updates on the following, if any:   * *XXX* * *XXX* * *XXX* * *XXX* * *Real-time ~~system snapshot~~* ***data*** | *System Operator* | | XXX | XXX | *XXX* | | XXX | XXX | *XXX* | | XXX | XXX | *XXX* | | XXX | *XXX* | | To reflect change in type of data received with the use of ICCP of the NMMS |  |  |
| 4.6 | Table 5. RTD Timeline   | **Time** | **Activity** | **Responsible Party** | | --- | --- | --- | | XXX | XXX | *XXX* | | Before [STDI – 7 minutes] | Provide updates on the following, if any:   * *XXX* * *XXX* * *XXX* * *XXX* * *Real-time system snapshot* | *System Operator* | | XXX | XXX | *XXX* | | XXX | XXX | *XXX* | | XXX | XXX | *XXX* | | XXX | *XXX* | | Table 5. RTD Timeline   | **Time** | **Activity** | **Responsible Party** | | --- | --- | --- | | XXX | XXX | *XXX* | | Before [STDI – 7 minutes] | Provide updates on the following, if any:   * *XXX* * *XXX* * *XXX* * *XXX* * *Real-time ~~system snapshot~~* ***data*** | *System Operator* | | XXX | XXX | *XXX* | | XXX | XXX | *XXX* | | XXX | XXX | *XXX* | | XXX | *XXX* | | To reflect change in type of data received with the use of ICCP of the NMMS | Adopt |  |
| 7.4.1 | **Market run data Inputs**. For each dispatch interval, the System Operator shall provide and update data, if necessary, which shall be used in the pre-dispatch projections and real-time dispatch market runs:   * 1. *Outage schedules*   2. *Contingency lists*   3. *Over-riding constraints*   4. *Reserve requirements* | **Market run data Inputs**. For each dispatch interval, the System Operator shall provide ~~and~~ **or** update **the** data, if necessary, which shall be used in the pre-dispatch projections and real-time dispatch market runs:   1. *Outage* schedules 2. *Contingency* lists 3. *Over-riding constraints* 4. *Reserve* requirements | Minor clerical amendment to clarify the provision |  |  |
| 7.6.4 | (New) | ***Generating units* undergoing regulatory and commercial tests shall submit to the *System Operator* the MW profile that details the MW target for each *dispatch interval* during its requested test period at least two (2) *working days* prior to the start of its testing.** | To provide that generator Trading Participants on testing and commissioning shall submit test profiles for each dispatch interval during the test period. The test profile will be the reference of the SO in its submission of overriding constraints. |  |  |
| 7.9.1 | 7.9.1 **System Snapshot.** The *system snapshot* depicts the status of individual power facilities in the grid. The *system snapshot* is collected by the *Market Operator* from the *System Operator*’s EMS/SCADA.  a. The *system snapshot* contains the following information:   * *Generator* Unit MW and MVAR (analog measurements) * Load MW and MVAR (analog measurements) and * Breaker Status * Bus Voltages * Frequency   b. The system snapshot is an input to the MDOM which calculates the WAP, DAP, HAP, and RTD schedules. Specifically, the system snapshot data is used for the network configuration and nodal demand forecasting processes. | 7.9.1 **~~System Snapshot~~ Real-Time Data.** The *~~system snapshot~~* ***real-time data* represents** ~~depicts~~ the analog measurements, and connection status of breakers and disconnect switches ~~status of individual power facilities~~ in the *grid*. ~~The~~ *~~system snapshot~~* **It** is collected by the *Market Operator* from the *System Operator*’s EMS/SCADA.  a. The *~~system snapshot~~* ***real-time data* shall** contain~~s the following~~ information **as prescribed** **in the *WESM* *Market Manual* on Market Network Model Development and Maintenance - Criteria and Procedure.**~~:~~   * *~~Generator~~* ~~Unit MW and MVAR (analog measurements)~~ * *~~Load MW and MVAR (analog measurements) and~~* * *~~Breaker Status~~* * *~~Bus Voltages~~* * *~~Frequency~~*   b. The *~~system snapshot~~* ***real-time data*** is an input to the MDOM which calculates the WAP, DAP, HAP, and RTD schedules. Specifically, the *~~system snapshot~~* ***real-time*** data is used for the network configuration and nodal demand forecasting processes. | To reflect change in type of data received with the use of ICCP of the NMMS |  |  |
| 7.9.2 | 7.9.2 **System Operator System Advisories**. The *System Operator system advisories* contain other information not included in the submission of *system snapshots*. Further to the information provided in Section 7.4.2, these are messages issued by the *System Operator* depicting particular events or incidents that would transpire prior, during or after real time condition. | 7.9.2 **System Operator System Advisories**. ~~The~~ *~~System Operator system advisories~~* ~~contain other information not included in the submission of~~ *~~system snapshots~~*~~.~~ Further to the information provided in Section 7.4.2, these are messages issued by the *System Operator* depicting particular events or incidents that would transpire prior, during or after real time condition. | To reflect change in type of data received with the use of ICCP of the NMMS | Adopt |  |
| 7.10.2 | 7.10.2 The *System Operator* shall provide the information contained in this Section in accordance with the *timetable* set in Section 4. | 7.10.2 The *System Operator* shall **update** ~~provide~~ the information contained in this Section ~~in accordance with~~ **considering** the *timetable* set in Section 4. | To clarify the responsibility of SO to update system status | Adopt |  |
| 8.3.3 | *Trading Participants* shall be responsible for:   * Ensuring submission of *self-scheduled nominations, bids,* and *offers* as set out in the *WESM Rules* and in accordance with the *WESM* *timetable* and the procedures and requirements set forth in this Dispatch Protocol; and * Maintaining their respective infrastructure to ensure access to the *MPI* of the *MMS*. | *Trading Participants* shall be responsible for:   * Ensuring submission of *self-scheduled nominations, bids,* and *offers* as set out in the *WESM Rules* and in accordance with the *WESM* *timetable* and the procedures and requirements set forth in this Dispatch Protocol; ~~and~~ * **Submission of day-ahead *self-scheduled nominations* of its *must dispatch generating units* to the *System Operator* by 1300H; and**   ~~b)~~ **c)** Maintaining their respective infrastructure to ensure access to the *MPI* of the *MMS*. | To provide that Must Dispatch generating units must provide SO day-ahead forecasts for planning purposes as also provided under PGC SD 8.3.2.6 |  |  |
| 8.4.2 | The data inputs for the market projections are as follows:    a. XXX  b. XXX  c. *System snapshot*  d. XXX  e. XXX  f. XXX  g. XXX  h. XXX  i. XXX | The data inputs for the market projections are as follows:    a. XXX  b. XXX  c. *~~System snapshot~~* ***Real-time data***  d. XXX  e. XXX  f. XXX  g. XXX  h. XXX  i. XXX | To reflect change in type of data received with the use of ICCP of the NMMS |  |  |
| 9.5 | Table 6. Summary of Inputs and Sources for the *Real-time dispatch*   | **INPUTS** | **SOURCE** | | --- | --- | | *XXX* | *XXX* | | *XXX* | *XXX* | | *System Snapshot* | *System Operator* | | *XXX* | *XXX* | | *XXX* | *XXX* | | *XXX* | *XXX* | | *XXX* | *XXX* | | XXX | *XXX* | | Table 6. Summary of Inputs and Sources for the *Real-time dispatch*   | **INPUTS** | **SOURCE** | | --- | --- | | *XXX* | *XXX* | | *XXX* | *XXX* | | *~~System snapshot~~* ***Real-Time Data*** | *System Operator* | | *XXX* | *XXX* | | *XXX* | *XXX* | | *XXX* | *XXX* | | *XXX* | *XXX* | | XXX | *XXX* | | To reflect change in type of data received with the use of ICCP of the NMMS |  |  |
| 10.1.2 | The *WMOT* is generated by stacking in an unconstrained manner of scheduled and unscheduled capacities, excluding negative quantities through the *market offers* submitted for *the real-time dispatch* runs. *Energy offer* blocks submitted by *generator Trading Participants* for a particular dispatch interval are arranged from lowest to the highest priced offer block, without considering any *constraints*. The *WMOT* stacks *energy offers* into two, namely, the energy offers that were scheduled (or “Offers Dispatched”) and *energy offers* that were not scheduled (or “Offers Not Dispatched”). | The *WMOT* is generated by stacking**,** in an unconstrained manner**,** ~~of~~ scheduled and unscheduled capacities, excluding negative quantities**, *reserve schedules*, and generators on outage** through the *market offers* submitted for *the real-time dispatch* runs. *Energy offer* blocks submitted by *generator Trading Participants* for a particular dispatch interval are arranged from lowest to the highest priced offer block, without considering any *constraints*. The *WMOT* stacks *energy offers* into two, namely, the energy offers that were scheduled (or “Offers Dispatched”) and *energy offers* that were not scheduled (or “Offers Not Dispatched”). | To reflect more accurate presentation of available capacities for re-dispatch |  |  |
| 10.3.2 | Consistent with its obligations set out in this Dispatch Protocol in respect to the issuance of dispatch instructions, the System Operator shall be responsible for ensuring the application of the information provided in the WMOT in the real-time operation of the grid. The System Operator shall also be responsible for identifying the generating units designated as must-run units through the dispatch deviation report and report on must-run units prepared in accordance with Sections 14.4.2 and 14.4.5. | Consistent with its obligations set out in this Dispatch Protocol in respect to the issuance of dispatch instructions, the System Operator shall be responsible for ensuring the application of the information provided in the WMOT in the real-time operation of the grid. The System Operator shall also be responsible for identifying the generating units **that were issued *dispatch instructions*** ~~designated as must-run units~~ through the dispatch ~~deviation~~ **instruction** report ~~and report on must-run units~~ prepared in accordance with Sections 14.4.2 and 14.4.5. | To be consistent with the renaming of SO’s reports to Dispatch Instruction Report from the current Dispatch Deviation Report. Also, MRU reports will be integrated in the dispatch instruction report per proposed revisions in Section 14.4.5. |  |  |
| 10.4.1 | 10.4.1 The *WMOT* shall be prepared using the *offers*, excluding negative quantities, and the *real-time dispatch schedule* of each *generating system* for which *offers* were submitted for the relevant *dispatch interval*. The specific information that will be used is as follows:  XXX | 10.4.1 The *WMOT* shall be prepared using **the *real-time dispatch schedules,* and** the *offers*, excluding negative quantities, ***reserve schedules*, and generators on outage**~~, and the~~ *~~real-time dispatch schedule~~* of each *generating system* for which *offers* were submitted for the relevant *dispatch interval*. The specific information that will be used is as follows:  XXX | To reflect more accurate presentation of available capacities for re-dispatch |  |  |
| 10.4.5  10.4.6 | XXX  10.4.5 The “Offers Dispatched” consists of the *energy offer* blocks which have been scheduled in the RTD schedule for the *dispatch interval*. To the extent possible, the *dispatch schedule* of each *generating unit* will be split into corresponding *offer* blocks. The scheduled *offer* blocks will then be sorted and listed from the lowest-priced to the highest-priced scheduled *offer* block, with the lowest-priced scheduled *offer* block at the bottom of the list and the highest-priced at the top of the list. The *generating units* for which no *offers* are submitted but were scheduled are considered as price takers. Their respective schedules, MW, are included in this list and are placed at the bottom of the list with *must dispatch generating units* at the bottom and followed by *priority dispatch generating units* and *non-scheduled generating units* in that order.  10.4.6 The “Offers Not Dispatched” consists of the remaining *energy offers* of each *generating unit* that are not scheduled or included in the RTD schedule for the *dispatch interval*. To the extent possible, the remaining *offers* will be sorted by *offer* blocks. The *offer* blocks not dispatched will then be sorted and listed from the lowest-priced to the highest-priced scheduled *offer* block, with the lowest-priced scheduled offer block at the bottom of the list and the highest-priced at the top of the list. Capacities that were not dispatched through their *energy offers* but have *reserve dispatch* targets shall be excluded from the list. | XXX  10.4.5 The “Offers Dispatched” consists of the *energy offer* blocks**, excluding *reserve schedules*,** which have been scheduled in the RTD schedule for the *dispatch interval*. To the extent possible, the *dispatch schedule* of each *generating unit* will be split into corresponding *offer* blocks. The scheduled *offer* blocks will then be sorted and listed from the lowest-priced to the highest-priced scheduled *offer* block, with the lowest-priced scheduled *offer* block at the bottom of the list and the highest-priced at the top of the list. The *generating units* for which no *offers* are submitted but were scheduled are considered as price takers. Their respective **MW** schedules~~, MW,~~ are included in this list and are placed at the bottom of the list with *must dispatch generating units* at the bottom and followed by *priority dispatch generating units* and *non-scheduled generating units* in that order.  10.4.6 The “Offers Not Dispatched” consists of the remaining *energy offers* of each **available** *generating unit* that are not scheduled or included in the RTD schedule for the *dispatch interval*. To the extent possible, the remaining *offers* will be sorted by *offer* blocks. The *offer* blocks not dispatched will then be sorted and listed from the lowest-priced to the highest-priced scheduled *offer* block, with the lowest-priced scheduled offer block at the bottom of the list and the highest-priced at the top of the list. Capacities that were not dispatched through their *energy offers* but have *reserve dispatch* targets shall be excluded from the list. | To reflect more accurate presentation of available capacities for re-dispatch |  |  |
| 10.6.2 | As far as practicable, and when *secondary reserves* have been exhausted, the *System Operator* shall issue re-dispatch instructions based on the *WMOT*. However, the *System Operator* may resort in an *out of merit dispatch* whenever the quality of the *grid frequency* is affected or the *security* of the *grid* is at risk. | As far as practicable, and when *~~secondary~~* ***regulating*** *reserves* have been exhausted, the *System Operator* shall issue re-dispatch instructions based on the *WMOT*. However, the *System Operator* may resort in an *out of merit dispatch* whenever the quality of the *grid frequency* is affected or the *security* of the *grid* is at risk. | To harmonize with DOE DC2019-12-0018 (regulating, contingency, dispatchable) |  |  |
| (New) | (New) | 11.1.4 xxx  **11.1.5 The *System Operator* shall** **make use of the first *WMOT* available for the hour as reference for its re-dispatch instruction at any *dispatch interval* for that hour (e.g. 1005H WMOT shall be used for all *dispatch intervals* from 1005H to 1100H).** | To specify that the first WMOT shall be used as reference for the rest of the hour in SO re-dispatch in consideration of the SO’s operational issues in relying on multiple 5-minute WMOTs in a one-hour interval. |  |  |
| 11.3.1 | 11.3.1 The *System Operator*, in coordination with the *Market Operator*, shall be responsible for the following:    a. XXX  b. Implementing the *WMOT* provided by the *Market Operator*;  c. Assuring the *security* and reliability of the grid at all times in compliance with the provisions of the System Security and Reliability Guidelines and *Grid Code*;  d. Dispatching *generators* as *constrain-on* or *constrain-off*, or as *must-run unit* if all available *reserves* are exhausted during a *dispatch interval*; and  e. Reporting events and actions made during *dispatch intervals*  11.3.2 XXX | 11.3.1 The *System Operator*, in coordination with the *Market Operator*, shall be responsible for the following:     1. XXX   **b.** **Directly issuing *dispatch instructions* to *generating units* operating on *AGC;***  ~~b.~~**c.** Implementing the *WMOT* provided by the *Market Operator*;  ~~c.~~**d.** Assuring the *security* and reliability of the grid at all times in compliance with the provisions of the System Security and Reliability Guidelines and *Grid Code*;  ~~d.~~**e.** Dispatching *generators* as *constrain-on* or *constrain-off*, or as *must-run unit* if all available *reserves* are exhausted during a *dispatch interval*; and  ~~e.~~**f.** Reporting events and actions made during *dispatch intervals*  11.3.2 XXX | To provide option for automated dispatching consistent with revisions in Section 11.1.3. |  |  |
| 11.3.3 | 11.3.3 All *Trading Participants* shall comply with their respective *dispatch schedules* issued by the *Market Operator* and the re-dispatch instructions issued to them by the *System Operator*, if any. For this purpose, they shall ensure that their respective internal processes, systems and infrastructure, as well as their protocols with their counterparties, shall enable strict compliance with this Section | 11.3.3 All *Trading Participants* shall comply with their respective *dispatch schedules* issued by the *Market Operator***, the** ***dispatch instructions* issued by the *System Operator* to** **their facilities operating on *AGC mode*,** and the re-dispatch instructions issued to them by the *System Operator*, if any. For this purpose, they shall ensure that their respective internal processes, systems and infrastructure, as well as their protocols with their counterparties, shall enable strict compliance with this Section. | To provide option for automated dispatching consistent with revisions in Section 11.1.3. |  |  |
| 11.4.1 | 11.4.1 *Dispatch instructions* shall include the following:     * XXX * XXX   11.4.2 XXX | 11.4.1 **Except for *generating units* operating on *AGC*,** *~~D~~****d****ispatch instructions* shall include the following:     * XXX * XXX   11.4.~~2~~**3** XXX | To provide option for automated dispatching consistent with revisions in Section 11.1.3. |  |  |
| (New) | (New) | **11.4.2 For *generating units* operating on *AGC*, the following shall be observed:**  **a. The *System Operator* shall send *AGC* commands based on a linear ramp rate specified by the *Generation Company*.**  **b. The *Generation Company* shall communicate to the *System Operator* the status of the *AGC* operations from start, during, and end of *AGC* remote control mode, as necessary.**  **c. The *Generation Company* shall seek clearance from the *System Operator* to change from remote to local *AGC* mode in cases of technical constraints.**  **d. When the *Generation Company* observes *AGC*-related issues that affect its operations, the *Generation Company* shall immediately communicate such issues to the *System Operator* prior to changing its mode of dispatch.** | To provide option for automated dispatching consistent with revisions in Section 11.1.3. |  |  |
| 11.4.3 | 11.4.3 **System Operator Clearance.** When the *grid frequency* is not within the normal threshold, the *Trading Participants* shall seek clearance from the *System Operator* 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. | 11.4.~~3~~**4** **~~System Operator Clearance.~~ Generator Dispatch Compliance Beyond Normal *Grid Frequency* Threshold.**  **a.** When the *grid frequency* ~~is not within the normal threshold~~ **reaches 59.7Hz or lower**, the *Trading Participants* shall **operate based on the following conditions:** ~~seek clearance from the~~ *~~System Operator~~* ~~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.~~   | **Condition** | **Status of Actual Dispatch** | **Expected Response** | | --- | --- | --- | | **Frequency is 59.7 Hz or lower** | **If ramping down, or current actual loading is higher than *dispatch schedule*** | ***Generating unit* should stop ramping down and maintain current actual loading unless otherwise instructed by the *System Operator*** | | **If ramping up, or current actual loading is lower than *dispatch schedule*** | ***Generating unit* should continue to ramp up to its *dispatch schedule* unless otherwise instructed by the *System Operator*** |   **b. Once the *grid frequency* goes up to 60 Hz after coming off from a state in Section 11.4.4 (a), then the *Trading Participants* shall resume to dispatch its *generating units* to meet its *dispatch schedule*.**  **c. When the *grid frequency* reaches 60.3 Hz or higher, the *Trading Participants* shall operate based on the following conditions:**   | **Condition** | **Status of Actual Dispatch** | **Expected Response** | | --- | --- | --- | | **Frequency is 60.3 Hz or higher** | **If ramping down, or current actual loading is higher than *dispatch schedule*** | **Generating unit should continue to ramp down to its *dispatch schedule* unless otherwise instructed by the *System Operator*** | | **If ramping up, or current actual loading is lower than *dispatch schedule*** | **Generator should stop ramping up and maintain current actual loading unless otherwise instructed by the *System Operator*** |   **d. Once the *grid frequency* comes down to 60 Hz after coming off from a state in Section 11.4.4 (c), then the *Trading Participants* shall resume to dispatch its generating units to meet its *dispatch schedule*.** |  |  |  |
| 11.5.2 | 11.5.2 If, in real-time, the available *generation* from a *Must dispatch generating unit* differs from the available *generation* assumed in the *dispatch schedule* provided to the *System Operator*, the *System Operator* shall allow the *Must dispatch generating unit* to generate at its *maximum available output*, and, if all available *secondary reserves* are exhausted during a *dispatch interval*, shall adjust the *dispatch* of other *generating units* to compensate as required in accordance with re-dispatch process in this Section. | 11.5.2 If, in real-time, the available *generation* from a *Must dispatch generating unit* differs from the available *generation* assumed in the *dispatch schedule* provided to the *System Operator*, the *System Operator* shall allow the *Must dispatch generating unit* to generate at its *maximum available output*, and, if all available *~~secondary~~* ***regulating*** *reserves* are exhausted during a *dispatch interval*, shall adjust the *dispatch* of other *generating units* to compensate as required in accordance with re-dispatch process in this Section. | To harmonize with DOE DC2019-12-0018 (regulating, contingency, dispatchable) |  |  |
| 11.8.1 | 11.8.1 The *real-time dispatch* targets shall be communicated by the *Market Operator* to the *Trading Participants* through the *MPI*. The *WMOT* generated for a *dispatch interval* shall be published in accordance with Section 10.7.2 of this Dispatch Protocol. Redispatch instructions shall be communicated by the *System Operator* to the *Trading Participants* through their respective power plant operators. | 11.8.1 The *real-time dispatch* targets shall be communicated by the *Market Operator* to the *Trading Participants* through the *MPI*. The *WMOT* generated for a *dispatch interval* shall be published in accordance with Section 10.7.2 of this Dispatch Protocol. ***Dispatch instructions* through the *AGC* facilities shall be communicated by the *System Operator* through the available communication link with the power plant operator.** Redispatch instructions shall be communicated by the *System Operator* to the *Trading Participants* through their respective power plant operators. | To provide option for automated dispatching. |  |  |
| 11.8.2 | 11.8.2 The *System Operator* shall maintain the communication facilities it needs for communicating with *Trading Participants* which may include telephones, fax, email, web pages and other means of communications.  11.8.3 XXX | 11.8.2 The *System Operator* shall maintain the communication facilities it needs for communicating with *Trading Participants* which may include telephones, fax, email, web pages**, facilities for *AGC*,** and other means of communications.  11.8.3 XXX | To provide option for automated dispatching. |  |  |
| 11.8.4 | 11.8.4 All *dispatch instructions* issued by the *System Operator* to *Trading Participants* shall be recorded through operator logs. The *System Operator* shall include this information in the dispatch deviation report, in accordance with Section 14.4. | 11.8.4 All *dispatch instructions* issued by the *System Operator***,** **including those provided through the facilities for *AGC*,** to *Trading Participants* shall be recorded through operator logs. The *System Operator* shall include this information in the dispatch ~~deviation~~ **instruction** report, in accordance with Section 14.4. | To provide option for automated dispatching. Also revised dispatch deviation reports to dispatch instruction reports. |  |  |
| 11.8.5 | 11.8.5 Dispatch deviation reports submitted by the System Operator to the Market Operator shall be used for purposes of surveillance, audit, and market settlements. | 11.8.5 Dispatch ~~deviation~~ **instruction** reports submitted by the System Operator to the Market Operator shall be used for purposes of surveillance, audit, and market settlements. | To be consistent with the re-naming of dispatch deviation reports to dispatch instruction reports. |  |  |
| 13.2.2 | Consistent with its obligations pertaining to real-time dispatch scheduling and implementation, the *System Operator* shall ensure:  a. Continuous and timely submission and updating of the outage schedules, *overriding constraint* limits of generating units to the *Market Operator*;  b. XXX  c. XXX | Consistent with its obligations pertaining to real-time dispatch scheduling and implementation, the *System Operator* shall ensure:  a. Continuous and timely submission and updating of the outage schedules~~,~~ *~~overriding constraint~~* ~~limits~~ of generating units to the *Market Operator*;  b. XXX  c. XXX | To be consistent with self-commitment and dispatch principles under the enhanced WESM design and operations |  |  |
| 13.3.4 | 13.3.4 The *dispatch scheduling* of the *generating unit* that will *start-up* or *shutdown* shall be managed through its *market offers* submitted within the *WESM timetable*. The *Trading Participant* shall submit *offers* for the *dispatch interval* during which the unit is to *startup* or *shutdown* and make adjustments to its *offers*, as appropriate. | 13.3.4 The *dispatch scheduling* of the *generating unit* that will *start-up* or *shutdown* shall be managed through its *market offers* submitted within the *WESM timetable*. The *Trading Participant* shall submit ***market*** *offers* **or *nominations*** for the *dispatch interval* during which the unit is to *startup* or *shutdown* and make adjustments to its ***market*** *offers* **or *nominations***, as appropriate. | To be consistent with self-commitment and dispatch principles under the enhanced WESM design and operations, and provide options especially applicable to generating units with fast-start capability |  |  |
| (New) | (New) | **13.3.5** **Consistent with the provisions in the *WESM Manual* on the Market Network Model Development and Maintenance - Criteria and Procedure, the status of *generating units* shall be based on their registered availability in the *market network model.*** | To be consistent with self-commitment and dispatch principles under the enhanced WESM design and operations |  |  |
| 13.4.1 | 13.4.1 Off-line units will not be included in the *dispatch scheduling* process. Thus, the *generating unit* must then be synchronized to the *grid* prior to the execution of the *real-time dispatch* run consistent with the *WESM timetable*. | 13.4.1 ~~Off-line units will not be included in the~~ *~~dispatch scheduling~~* ~~process. Thus,~~ the **A** *generating unit* must ~~then be synchronized to the~~ *~~grid~~* **have *market offers* or *nominations*** prior to the execution of the *real-time dispatch* run consistent with the *WESM timetable*. | To be consistent with self-commitment and dispatch principles under the enhanced WESM design and operations |  |  |
| 13.4.2 | 13.4.2 The *System Operator* shall update the *outage schedule* of *generators* to remove the *generating unit* cleared to *start-up* from the *outage list*. Submission shall be in accordance with the *WESM timetable*. If the *start-up* will be deferred, the *System Operator* shall update the *outage schedule* accordingly and in accordance with the *WESM timetable* for submission of *outage schedules.* | 13.4.2 The System Operator shall update the outage schedule of generators to remove the generating unit cleared to start-up from the outage list. Submission shall be in accordance with the WESM timetable. ~~If the~~ *~~start-up~~* ~~will be deferred, the~~ *~~System Operator~~* ~~shall update the~~ *~~outage schedule~~* ~~accordingly and in accordance with the~~ *~~WESM timetable~~* ~~for submission of~~ *~~outage schedules.~~* | To be consistent with self-commitment and dispatch principles under the enhanced WESM design and operations |  |  |
| (New) | (New) | **13.4.3** **If the start-up will be deferred, the *System Operator* shall update the outage schedule accordingly and in accordance with the *WESM timetable* for submission of outage schedules.** | To be consistent with self-commitment and dispatch principles under the enhanced WESM design and operations |  |  |
|  | 13.4.3 XXX  13.4.4 XXX | 13.4.~~3~~**4** XXX  13.4.~~4~~**5** XXX | Re-numbered |  |  |
| 13.5.3 | 13.5.3 The *Trading Participant* shall update its *offers* for the *dispatch intervals* covered in the *shutdown* sequence. | 13.5.3 The *Trading Participant* shall update its ***market*** *offers* **or *nominations*** for the *dispatch intervals* covered in the *shutdown* sequence. | To clarify that Trading Participants are also required to update their nominations |  |  |
| 13.5.4 | 13.5.4 Once the *generating unit* has completely *shut down*, the relevant *Trading Participant* shall cancel its daily *offer* profile for the affected *trading day.* | 13.5.4 Once the *generating unit* has completely *shut down*, the relevant *Trading Participant* shall cancel its daily *market* *offer* **or *nomination***profile for the affected *trading day.* | To clarify that Trading Participants are also required to update their nominations |  |  |
| 14.1 | Background  After each dispatch interval, the System Operator is required under WESM Rules Clause 3.8.2 to advise the Market Operator of the occurrence of, among other information, dispatch deviations, load shedding, network constraints, binding security constraints and operational irregularities. | Background  After each dispatch interval, the System Operator is required under WESM Rules Clause 3.8.2 to advise the Market Operator of the occurrence of, among other information, dispatch ~~deviations~~ **instructions**, load shedding, network constraints, binding security constraints and operational irregularities. | To reflect proposed change to Dispatch Instruction Report to cover all instructions issued by SO instead of deviations only |  |  |
| 14.4.2 | Dispatch Deviation Report. For each trading day, the System Operator shall submit a report to the Market Operator, on a weekly basis, containing deviation to actual dispatch from the RTD schedule. The Dispatch Deviation Report shall contain, among others, the following information:  a. Covered period (start time and end time)  b. Resource name  c. Reason for Deviation:  • Utilized for ancillary services  • Testing Requirement  • Re-dispatch of constrain-on and constrain-off generating units  • Designation of must-run units  d. Short description of the issue being addressed (e.g. frequency breached x Hz) | Dispatch ~~Deviation~~ **Instruction** Report. **On a weekly basis,** ~~For each trading day,~~ the System Operator shall submit a report to the Market Operator~~, on a weekly basis,~~ containing **their *dispatch instructions*** **that includes, but are not limited to, generator re-dispatch (e.g. constrain-on generation, constrain-off generation, must-run generation), MW output schedule during *market intervention* or *market suspension*, and, as necessary, commands via the *automatic generation control*,** ~~deviation to actual dispatch from the RTD schedule~~. The Dispatch ~~Deviation~~ **Instruction** Report shall contain, among others, the following information:  a. ~~Covered period (start time and end time)~~ **Date and Time of Incident**  b. Resource name  c. Reason for ~~Deviation~~ **Dispatch Instruction**:  • Utilized for ancillary services  • Testing Requirement  • Re-dispatch of constrain-on and constrain-off generating units  • Designation of must-run units  **• Limitation on *must dispatch generating units***  **• *Market Intervention* or *Market Suspension***  d. Short description of the issue being addressed (e.g. frequency breached x Hz)  **e. Type of *Dispatch Instruction***  **f. Target MW value instructed** | To reflect re-naming to Dispatch Instruction Report to only cover instructions issued by SO. Added proposed changes to format also. |  |  |
| 14.4.5 | Report on Must-run Units. In accordance with WESM Rules Clause 3.5.13.1, the System Operator shall submit a report to the Market Operator identifying all the generating units designated as must-run units within the trading day, as well as information necessary for the proper settlement of such generating units. | Report on Must-run Units. In accordance with WESM Rules Clause 3.5.13.1, the System Operator shall submit ~~a report~~ **information** to the Market Operator identifying all the generating units designated as must-run units within the trading day, as well as information necessary for the proper settlement of such generating units. **Such information shall be included in the Dispatch Instruction Report.** | To indicate that information on designation of MRUs shall be included in the Dispatch Instruction Report |  |  |
| 14.4.7 | (New) | **14.4.7** **Each *generation company* shall validate all the data in the Dispatch Instruction Report as published by the *Market Operator* in the *market information website*. Any discrepancy in these reports shall be reported by the *generation company* to the *Market Operator* within two (2) weeks after the *Market Operator*’s publication of these reports. Failure by the *generation company* to report to the *Market Operator* any discrepancy within the period defined herein shall render the data in the report as final.** | To include provision that discrepancies should be reported within two weeks. |  |  |
| 14.4.8 | (New) | **14.4.8** **Within two (2) *working days* from receipt of a report, the *Market Operator* shall request the *System Operator* to validate a reported discrepancy by a *generator*.** | To provide the Market Operator time to consolidate and transmit discrepancy report to the SO |  |  |
| 14.4.9 | (New) | **14.4.9** **The *System Operator* shall perform reconciliation with the *generation company* and provide the results of its validation of the reported discrepancies within seven (7) working days from the receipt of the request from the *Market Operator*. If the *Market Operator* has not received any validation within the prescribed timeline, the published data from the Dispatch Instruction Report shall be maintained. If the *generation company* claims additional compensation related to the reported discrepancies that were not validated within the prescribed timeline, the *generation company* may subject the said claim under the WESM dispute resolution process.** | To include ERC directive\* on SO reconciliation timeline and impact of non-submission by SO of validation within the prescribed timeline.  \* Section 4.4.1.1.3 of ERC Decision dated 29 August 2020 on ERC Case No. 2017-042RC |  |  |
| 15.4.2 | The level of *reserve* requirement for secondary *reserve* service shall be based on the latest issuances on the procurement of *ancillary services* by the *ERC*, and shall be used as reference by the *Market Operator* for the *market projections* and *real-time dispatch schedule*. | The level of *reserve* requirement for ~~secondary~~ ***regulating*** *reserve* service shall be based on the latest issuances on the procurement of *ancillary services* by the *ERC*, and shall be used as reference by the *Market Operator* for the *market projections* and *real-time dispatch schedule*. | To harmonize with DOE DC2019-12-0018 (regulating, contingency, dispatchable) |  |  |
| 15.4.3 | For *primary reserve* service and *tertiary reserve*, the *System Operator* shall determine the level of *reserve* requirement in accordance with the latest issuances on the procurement of *ancillary services* by the *ERC.* | For *~~primary~~* ***contingency*** *reserve* service and *~~tertiary~~* ***dispatchable*** *reserve*, the *System Operator* shall determine the level of *reserve* requirement in accordance with the latest issuances on the procurement of *ancillary services* by the *ERC.* | To harmonize with DOE DC2019-12-0018 (regulating, contingency, dispatchable) |  |  |
| 17.5.1 | 17.5 Reporting and Publication  Each generator shall validate all the data related to MRU contained in the Dispatch Deviation Report as published by the Market Operator in the Market information website. Any discrepancy in these reports shall be reported by the Generator to the Market Operator within two weeks after the Market Operator’s publication of these reports. Failure by the Generator to report to the Market Operator any discrepancy within the period defined herein shall render the MRU data relative to the Generator final. | ~~17.5 Reporting and Publication~~  ~~Each generator shall validate all the data related to MRU contained in the Dispatch Deviation Report as published by the Market Operator in the Market information website. Any discrepancy in these reports shall be reported by the Generator to the Market Operator within two weeks after the Market Operator’s publication of these reports. Failure by the Generator to report to the Market Operator any discrepancy within the period defined herein shall render the MRU data relative to the Generator final.~~ | To be consistent with the integration of MRU reporting in the Dispatch Instruction Report. |  |  |
| 18.3.1 | 18.3.1 There is an impending *excess generation* when the resulting price in the *day-ahead projection* run is equivalent to the offer floor price and the aggregate unscheduled Technical Pmin of generating units with floor price offers is greater than or equal to the *secondary reserve* requirement. | 18.3.1 There is an impending *excess generation* when the resulting price in the *day-ahead projection* run is equivalent to the offer floor price and the aggregate unscheduled Technical Pmin of generating units with floor price offers is greater than or equal to the *~~secondary~~* ***regulating*** *reserve* requirement. | To harmonize with DOE DC2019-12-0018 (regulating, contingency, dispatchable) |  |  |
| 20.4 | Emergency Procedures during Overload | *[See Attachment A for changes to Emergency Procedures during Overload flowchart]* | To refine the process flow from SO |  |  |
| Appendix D | XXX   | 1. ***Real-time dispatch schedules*** | | | --- | --- | | **Column Name** | **Description** | | END\_TIME | XXX | | REFERENCE\_NAME | Concatenates the Resource Name and the market product. The following lists the market products available.   * “EN” for energy * “RU” for Regulation raise/upward * “RD” for Regulation lower/downward * “FR“ for Fast Contingency Raise * “FL” for Fast Contingency Lower * “SR” for Slow Contingency Raise * “SL” for Slow Contingency Lower * “DR“ for Delayed Contingency Raise * “DL” for Delayed Contingency Lower   XXX | | MW | XXX |  | 1. **Market Requirements** | | | --- | --- | | **Column Name** | **Description** | | START\_TIME | Start Time of the Dispatch interval | | END\_TIME | End/Target Time of the Dispatch interval | | RUN\_TYPE | Describes the type of market run, which is RTD | | MKT\_PRODUCT | Describes type of requirement   * “EN” for energy * “RU” for Regulation raise/upward * “RD” for Regulation lower/downward * “FR“ for Fast Contingency Raise * “FL” for Fast Contingency Lower * “SR” for Slow Contingency Raise * “SL” for Slow Contingency Lower * “DR“ for Delayed Contingency Raise * “DL” for Delayed Contingency Lower | | REGION\_ID | XXX | | REQ\_MW | XXX |   XXX | XXX   | **a. *Real-time dispatch schedules*** | | | --- | --- | | **Column Name** | **Description** | | END\_TIME | XXX | | REFERENCE\_NAME | Concatenates the Resource Name and the market product. The following lists the market products available.   * “EN” for energy * “RU” for Regulation raise/upward * “RD” for Regulation lower/downward * “FR“ for Fast Contingency Raise **(Contingency Reserve)** * ~~“FL” for Fast Contingency Lower~~ * ~~“SR” for Slow Contingency Raise~~ * ~~“SL” for Slow Contingency Lower~~ * “DR“ for Delayed Contingency Raise **(Dispatchable Reserve)** * ~~“DL” for Delayed Contingency Lower~~   XXX | | MW | XXX |  | **b. Market Requirements** | | | --- | --- | | **Column Name** | **Description** | | START\_TIME | Start Time of the Dispatch interval | | END\_TIME | End/Target Time of the Dispatch interval | | RUN\_TYPE | Describes the type of market run, which is RTD | | MKT\_PRODUCT | Describes type of requirement   * “EN” for energy * “RU” for Regulation raise/upward * “RD” for Regulation lower/downward * “FR“ for Fast Contingency Raise **(Contingency Reserve)** * ~~“FL” for Fast Contingency Lower~~ * ~~“SR” for Slow Contingency Raise~~ * ~~“SL” for Slow Contingency Lower~~ * “DR“ for Delayed Contingency Raise **(Dispatchable Reserve)** * ~~“DL” for Delayed Contingency Lower~~ | | REGION\_ID | XXX | | REQ\_MW | XXX | | To harmonize with DOE DC2019-12-0018 (regulating, contingency, dispatchable) |  |  |
| Appendix E | XXX   | **f. *Reserve* Requirement** | | | --- | --- | | **Column Name** | **Description** | | SCHEDULE\_TYPE | Refers to the MMS’ COP Schedule Type for Reserve Requirement. The following are the available schedule types for reserves.   * RegulationLowerReserve * RegulationRaiseReserve * FastContingencyLowerReserve * FastContingencyRaiseReserve * SlowContingencyLowerReserve * SlowContingencyRaiseReserve * DelayedContingencyLowerReserve * DelayedContingencyRaiseReserve | | VERSION | XXX | | OBJECT\_ID | XXX | | TARGET\_TIME | XXX | | MW | XXX | | XXX   | **f. *Reserve* Requirement** | | | --- | --- | | **Column Name** | **Description** | | SCHEDULE\_TYPE | Refers to the MMS’ COP Schedule Type for Reserve Requirement. The following are the available schedule types for reserves.   * RegulationLowerReserve * RegulationRaiseReserve * ~~FastContingencyLowerReserve~~ * FastContingencyRaiseReserve **(Contingency Reserve)** * ~~SlowContingencyLowerReserve~~ * ~~SlowContingencyRaiseReserve~~ * ~~DelayedContingencyLowerReserve~~ * DelayedContingencyRaiseReserve **(Dispatchable Reserve)** | | VERSION | XXX | | OBJECT\_ID | XXX | | TARGET\_TIME | XXX | | MW | XXX | | To harmonize with DOE DC2019-12-0018 (regulating, contingency, dispatchable) |  |  |
|  | (New) | **Appendix G.** **Details of Dispatch Instructions Using Automatic Generation Control**  *[See Attachment B]* | To provide option for automated dispatching |  |  |

**Attachment A:**

| **Provision** | **Proposed Amendment** |
| --- | --- |
| 20.4.1 Emergency Procedures During Overload  Graphical user interface, diagram  Description automatically generated | 20.4.1 Emergency Procedures During Overload  Diagram  Description automatically generated |

**Attachment B**

**Appendix G. Details of Dispatch Instructions Using Automatic Generation Control**

**Enhanced AGC System Command Modes**

| **No.** | **RTD Schedules** | **Command Mode** | **Remarks** | **Lower Limit** | **Upper Limit** |
| --- | --- | --- | --- | --- | --- |
| **1** | **Energy Only** | **SCHED – O** | **Energy only** | **None** | |
| **2** | **Contingency Reserve (CR) Only** | **AUTO – E** | **Scheduled for Contingency Reserve only** | **Pmin** | **Pmin + CR** |
| **3** | **Energy + Contingency Reserve** | **SCHED – E** | **Has energy and contingency reserve schedule** | **EN** | **EN + CR** |
| **4** | **Regulating Reserve (RR)** | **AUTO – R** | **Scheduled for regulating reserve only** | **EN – RR Downward** | **EN + RR Upward** |
| **5** | **Energy + Regulating Reserve** | **SCHED – R** | **It has energy and regulating reserve schedules. It also has same energy schedules in previous and current dispatch intervals.** |
| **AUTO – R** | **It has energy and regulating reserve schedules. It also has different energy schedules in previous and current dispatch intervals.** |
| **6** | **Dispatchable Reserve (DR) Only** | **MANUAL** | **Scheduled for Dispatchable Reserve only** | **EN – DR Lower** | **EN + DR Raise** |
| **7** | **Energy + Dispatchable Reserve** | **SCHED-O** | **Has energy and dispatchable reserve schedule** |

**Illustrating AGC Commands Within the 5-minute Dispatch Interval**

Chart, diagram

Description automatically generated

**WESM Manual on Registration, Suspension and De-Registration Criteria and Procedures**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Section** | **Original Provision** | **Proposed Amendment** | **Rationale** | **Comment /**  **Proposed Revision** | **Original Provision** |
| (New) | (New) | **2.5.4.7 Modelling of the Generating Unit’s Availability**  **Upon registration, *Trading Participants* shall specify if the availability of its *generating unit* shall be based on the real-time status of its generator breaker, or on the availability of its *market offers*.** | To require TPs to specify if generator availability is based entirely on its generator breakers, or on the availability of its market offers, for generator modelling purposes. |  |  |

**WESM Manual on Market Network Model Development and Maintenance - Criteria and Procedures**

| **Section** | **Original Provision** | **Proposed Amendment** | **Rationale** | **Comment /**  **Proposed Revision** | **Original Provision** |
| --- | --- | --- | --- | --- | --- |
| 2.1.5 | (New) | **2.1.5 *Market Resource* refers to the objects defined in the *Market Network Model* to represent generators, battery energy storage systems, pumped-storage units, and loads.** | To provide general term used in the MNM for all objects representing generators, BESS, pumped-storage units, and loads |  |  |
| 4.4.12 | (New) | **4.4.12 Real-Time Data**  **The *System Operator* shall provide the following real-time data, each having its respective real-time data quality, to the *Market Operator*:**  To document provision of real-time data for the MNM.   * **Analog measurements (MW/MVAR) to represent gross generation output and generation net of the station use;** * **Analog measurements (MW/MVAR) to represent consumption at least at the connection point;** * **Analog measurements (MW/MVAR) measuring loading at the high-side and low-side of the transformer;** * **Analog measurements (MW/MVAR) measuring the loading at both ends of an AC line or HVDC link;** * **Breaker Status;** * **Calculated MW Demand per region; and** * **Power System Frequency per grid (Hz).** | To document provision of real-time data for the MNM. |  |  |
| 4.5.4 | After the receipt of the official notification from the System Operator, the Market Operator shall initiate the approval process for the MNM uploading to facilitate the implementation of the notified change. Minor changes (such as but not limited to, change in equipment/resources naming conventions, additional bays for future expansions) to the transmission network that has no impact to the market operations may be implemented at a later time. | After the receipt of the official notification from the System Operator, the Market Operator shall **start the preparations** ~~initiate the approval process~~ for the MNM ~~uploading~~ **update** to facilitate the implementation of the notified change. Minor changes (such as but not limited to, change in equipment/resources naming conventions, additional bays for future expansions) to the transmission network that has no impact to the market operations may be implemented at a later time. | To clarify existing process |  |  |
| 4.5.6 | The table below describes the timeline of activities involved in updating the MNM. The variable “D” stands for the target date of uploading of the new MNM. This date is set by the Market Operator upon its assessment, and is based on energization date or commissioning date of a new or upgraded facility or equipment.  Table 1. MNM Development Timetable | The table below describes the timeline of activities involved in updating the MNM. The variable “D” stands for the target date of ~~uploading~~ **deployment** of the ~~new~~ MNM **update**. This date is set by the Market Operator upon its assessment, ~~and is based on~~ **in consideration of the** energization ~~date~~ or commissioning date of a new or upgraded facility or equipment.  Table 1. MNM Development Timetable  *[See Attachment C for proposed revised Table 1. MNM Development Timetable. Existing Table 1 to be deleted]* | To update MNM Development Timetable for more clarity and introduce process improvements |  |  |
| 4.5.7 | All MNM revisions uploaded to the production system should be ratified by the PEM Board. Ratification of the said network model shall be done upon completion of the seven-day consistency monitoring. | ~~All MNM revisions uploaded to the production system should be ratified by the PEM Board. Ratification of the said network model shall be done upon completion of the seven-day consistency monitoring.~~  **The *Market Operator* shall prepare a monthly report containing all MNM updates deployed in the production system. This report shall be provided to the *DOE*, *ERC*, and the *PEM Board*, and shall be similarly published in the *market information website* ten (10) *working days* after the end of the *billing period*.**  **The *Market Operator* shall seek the approval of the PEM Board prior to integration of new network, as described in WESM Rules Clauses 3.2.1.2 and 3.2.1.5, to the MNM. The result of functional and technical testing for such integration shall also be submitted to the PEM Board. within three (3) calendar days after completion.** | To provide that instead of a PEM Board Ratification, monthly MNM updates shall instead be provided.  Currently with the Existing MMS, IEMOP updates the MNM by grouping network changes in batches. But given the new features of the New MMS, IEMOP intends to update the MNM per network change, and as near-to-real-time as possible. Given the possible volume of such updates, it is proposed that all of them just be collated for a month, then be provided to the DOE, ERC, and PEM Board as the official summary report of MNM updates. |  |  |
| 4.5.8 | Additional Considerations in the MNM Development are as follows:  a) Network Service Providers shall ensure that they provide ample information regarding their planned activities to the System Operator  b) All planned activities should involve proper coordination between the Market Operator and the System Operator (including affected Trading Participants if necessary).  c) The target date of uploading (Day ‘D’) by the Market Operator may be moved further depending on justifiable reasons from either the Market Operator or the System Operator. In such cases, the Market Operator in coordination with the System Operator should decide on the new target date of uploading.  d) Should the target uploading of a new MNM issue be cancelled, and then other changes to the MNM were put into effect after its cancellation, the System Operator shall notify the Market Operator of its new scheduled energization date seven days prior. | Additional Considerations in the MNM Development are as follows:  a) Network Service Providers shall ensure that they provide ample information regarding their planned activities to the System Operator  b) All planned activities should involve proper coordination between the Market Operator and the System Operator (including affected Trading Participants if necessary).  c) The target date of ~~uploading~~ **deployment** (Day ‘D’) by the Market Operator may be moved further depending on justifiable reasons from either the Market Operator or the System Operator. In such cases, the Market Operator in coordination with the System Operator should decide on the new target date of ~~uploading~~ **deployment**.  d) Should the target ~~uploading~~ **deployment** of an ~~new~~ MNM **update** ~~issue~~ be cancelled, and then other ~~changes~~ **updates** to the MNM were put into effect after its cancellation, the System Operator shall notify the Market Operator of its new scheduled energization date seven days prior.  **e) In cases where urgent updates to the MNM are necessary, the *Network Service Provider* or the *System Operator* shall provide the necessary technical requirements to update the MNM at least two (2) *working days* prior to the target energization. Urgent updates do not include new *market resources*.** | * To replace “uploading” with “deployment” for clarity. * To allow and provide procedures for urgent MNM updates. |  |  |
| 5.1 | REAL-TIME MNM CONFIGURATION | ~~REAL-TIME MNM CONFIGURATION~~ **DYNAMISM OF MNM USING REAL-TIME DATA** | To revise for clarity |  |  |
| 5.1.1 | Real time reconfiguration refers to any changes in the MNM reconfiguration of any part of the transmission system that may affect the dispatch within any trading interval. These revisions shall be made automatically to the MNM based on the inputs and data provided by the System Operator through the EMS. This shall include, but may not be limited to, the following:  a) Change in Transmission and Sub-transmission Network topology;  b) Line, Generator and Customer Load outage; and  c) Reconfiguration as initiated by the System Operator or the Network Service Providers to maintain system security and reliability. | ~~Real time reconfiguration refers to any changes in the MNM reconfiguration of any part of the transmission system that may affect the dispatch within any trading interval.~~ **The static power system model of the MNM** ~~These revisions~~ shall be ~~made automatically~~ **constantly updated** ~~to the MNM~~ based on the inputs and data provided by the System Operator ~~through the EMS~~. This shall include, but may not be limited to, the following:  a) Change in Transmission and Sub-transmission Network topology **with reference to real-time status of breakers and disconnect switches**; **and**  b) **Scheduled outages of power system equipment (e.g.** Line**s**, **Power Transformers,** **HVDC Links,** Generator**s**, and Customer Load**s** outage**)**; ~~and~~  ~~c) Reconfiguration as initiated by the System Operator or the Network Service Providers to maintain system security and reliability.~~ | To revise for clarity. Also removed source of “EMS” since inputs from SO are provided through their different platforms. Item (c) is also not part of the real-time update. |  |  |
| 5.2 | NETWORK DEVELOPMENT | ~~NETWORK~~ DEVELOPMENT **OF THE MNM** | To revise for clarity |  |  |
| 5.2.1 | Network development is any reconfiguration of any part of the transmission or sub-transmission system. The Market Operator should be notified as the network development may affect the dispatch and are permanent in nature. This shall include the following:  xxxx | **The *Market Operator* shall develop the market network model and power system model in view of** ~~Network development is~~ any reconfiguration of any part of the transmission or sub-transmission system. ~~The Market Operator should be notified as the network development may affect the dispatch and are permanent in nature.~~ This shall include the following:  xxxx | To revise for clarity |  |  |
| -- | MARKET NETWORK MODEL MAINTENANCE AND PUBLICATION | ~~MARKET NETWORK MODEL MAINTENANCE AND PUBLICATION~~ | Not necessary. Clerical edit. |  |  |
| 5.4.2 | The Market Operator shall maintain an electronic copy of the following for all market network model revisions:  a) Bus Oriented Single Line Diagram; and  b) Breaker Oriented Single Line Diagram  c) Network Parameters | The Market Operator shall maintain an electronic copy of the following for all market network model ~~revisions~~ **updates**:  a) Bus**-**Oriented Single Line Diagram; and  b) Breaker**-**Oriented Single Line Dagram  c) ~~Network~~ **Technical** Parameters | To revise for clarity on how IEMOP maintains the repository for the MNM. |  |  |
| 5.5 | Manner of Publication | ~~Manner of Publication~~ **Reporting of MNM Updates** | To replace ‘Publication’ with ‘Reporting’ which better describes the succeeding procedures |  |  |
| 5.5.1 | Any changes or revision initiated by the Market Operator or System Operator shall trigger the publication of the revised and approved MNM. | ~~Any changes or revision initiated by the Market Operator or System Operator shall trigger the publication of the revised and approved MNM.~~ **Within two (2) *working days* from deployment, the *Market Operator* shall publish advisory on the MNM updates deployed in the production system.** | To revise how IEMOP will report MNM updates. Immediate information shall be published after deployment. Then a summary of the changes will be provided every month. |  |  |
| 5.5.2 | The Market Operator shall regularly publish the relevant updated MNM documents within seven days after the completion of the MNM consistency monitoring in the MMS’ production system. Every revision of the MNM shall have the following associated documents published in the Market Information Website:  a) MNM Revisions Manual;  b) Bus-Oriented Single Line Diagram; and | ~~The Market Operator shall regularly publish the relevant updated MNM documents within seven days after the completion of the MNM consistency monitoring in the MMS’ production system. Every revision of the MNM shall have the following associated documents published in the Market Information Website:~~  ~~a) MNM Revisions Manual;~~  ~~b) Bus-Oriented Single Line Diagram; and~~  ~~c) Information brief~~  **Consistent with the provisions of Clause 4.5.7 of this *Market Manual*, the *Market Operator* shall prepare a monthly report containing all MNM updates deployed in the production system. This report shall be provided to the *DOE*, *ERC*, and the *PEM Board*, and shall be similarly published in the *market information website* ten (10) *working days* after the end of the *billing period*. At the least, it shall contain the following.**   * **Summary of MNM Updates during the month** * **Latest Bus-Oriented Single Line Diagram** | To revise how IEMOP will report MNM updates. Immediate information shall be published after deployment. Then a summary of the changes will be provided every month. |  |  |
| 6.5.4 | (New) | **During the registration of the generator resource, *Trading Participants* shall specify if its availability shall be based on the real-time status of its generator breaker, or on the availability of its *market offers*.** | To provide that during the generator modelling, TPs need to specify if generator availability is based entirely on its generator breakers, or on the availability of its market offers, for consideration in WESM scheduling. |  |  |
| 6.7.4 | (New) | **During the registration of the *battery energy storage system resource*, *Trading Participants* shall specify if its availability shall be based on the real-time status of its connecting breaker, or on the availability of its *market offers*.** | To provide that during the BESS modelling, TPs need to specify if generator availability is based entirely on its connecting breakers, or on the availability of its market offers, for consideration in WESM scheduling. |  |  |
| 6.8.3 | (New) | **During the registration of the *pumped-storage unit resource*, *Trading Participants* shall specify if its availability shall be based on the real-time status of its connecting breaker, or on the availability of its *market*** 6.8.3***offers*.** | To provide that during the pumped-storage unit modelling, TPs need to specify if generator availability is based entirely on its connecting breakers, or on the availability of its market offers, for consideration in WESM scheduling. |  |  |

**Attachment C**

**Table 1. MNM Development Timetable**

| **ITEM** | **TIMELINE** | **ACTIVITY** | **DESCRIPTION** | **RESPONSIBLE PARTY** |
| --- | --- | --- | --- | --- |
| **1** | **Before D – 9** | **Generator Trading Participants should provide technical specifications of its facility to the Market Operator** | **At the very least, the technical requirements indicated in the WESM Market Manual on Registration, Suspension and De-Registration Criteria and Procedures** **for new *generators*, *battery energy storage systems*, or *pumped-storage* units should be provided.**  **The same requirements are also required when requesting for the re-modelling of facilities (i.e. aggregation of disaggregation of resources).** | **Generator Trading Participant** |
| **2** | **Before D – 9** | **The System Operator should provide technical specifications to the Market Operator for new load facilities** | **The System Operator should provide the breaker-oriented single line diagram that reflects the connection of the new load facility.** | **System Operator** |
| **3** | **Before D – 8** | **Network Service Providers should provide notice of changes in the Distribution Network** | **Applicable only for *Network Service Providers* whose equipment should be included, or are already included, in the *Market Network Model*** | ***Network Service Providers*** |
| **4** | **D – 8** | **Register New *Market Resource* in the Central Registration and Settlement System (CRSS) and Market Management System (MMS)** | **Upon receiving the technical requirements for the registration of new *market resources*, the *Market Operator* shall register it in the CRSS and MMS at least eight (8) days prior to their target energization.** | ***Market Operator*** |
| **5** | **D – 7** | **Submit notice of changes to the Grid** | **The *System Operator* shall submit a notice of changes to the grid, which includes the following.**   * **Breaker-oriented single line diagram that highlights the changes;** * **Real-time mapping definitions; and** * **Technical parameters affected by the change.** | ***System Operator*** |
| **6** | **D – 6** | **Initiate Preparations for MNM Update** | **The *Market Operator* shall make the necessary preparations concerning the MNM update, specifically for network changes that has a material effect to the system operations and market operations as appropriately assessed by the *Market Operator*. It shall involve the changes as notified by the *System Operator*, and changes recommended by the *Market Operator*,where appropriate, including simplifications and alterations to the market network model that maintains: (a) the relationship between the market network model and the transmission network; and (b) consistency with market requirements.** | ***Market Operator*** |
| **7** | **Before D – 2** | **Market Model and Power System Model Update** | **The *Market Operator* shall effect changes to the MNM through the updating of the market and power system models recognized by the MMS.**  **The Market Operator may create different “MNM Update Tasks” for such MNM updates. An MNM update task represents a collection of changes in the MNM. Each MNM update task can be deployed separately for production use.** | ***Market Operator*** |
| **8** | **Before D – 2** | **Testing of “MNM Update Task”** | **The *Market Operator* shall perform functional and technical tests on the updated network model for each MNM task to ensure its consistency with the updated *power system*.** | ***Market Operator*** |
| **9** | **Before D – 1** | **Confirm schedule of energization** | **The *System Operator* shall inform the *Market Operator* of the final schedule of energization.** | ***System Operator*** |
| **10** | **On or Before D** | **Notice of Planned Deployment to the WESM Participants** | **The *Market Operator* shall inform the *WESM Participants* of the planned deployment date for the updating of the MNM in the production system of the MMS** | ***Market Operator*** |
| **11** | **D** | **Deployment of MNM Update Task** | **The *Market Operator* shall deploy the MNM Update Task in the production system.**  **Should the MNM update task involve changes that are not yet energized, and the updated MNM’s power system model is unable to dynamically adapt to its non-energization, then the *Market Operator* may defer the deployment of the MNM Update Task to a later date.** | **Market Operator** |
| **12** | **D** | **Notice of Post-Deployment to the WESM Participants** | **The *Market Operator* shall inform the *WESM Participants* of the successful deployment of MNM update in the production system of the MMS** | **Market Operator** |
| **13** | **D** | **Provide Updates on Market Model and Power System Model to the *System Operator*** | **The Market Operator shall provide the System Operator with relevant information to ensure reliable operation between the two entities. This primarily includes the updated mapping information between the MMS and EMS** | **Market Operator** |
| **14** | **D to D+7** | **Consistent monitoring of the updated MNM** | **The *Market Operator* shall continuously monitor the status of the recently updated MNM in the production system for the next seven days** | **Market Operator** |

**WESM Manual on Market Operator Information Disclosure and Confidentiality Manual Issue**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Section** | **Original Provision** | **Proposed Amendment** | **Rationale** | **Comment /**  **Proposed Revision** | **Original Provision** |
| Category:  OTHERS  Transmission System Information | *[See table below]* | *(See table below]* | * To be consistent with the proposed changes in the WESM DP Section 14.4.2 * To provide timeline on publication of report indicating revisions to the SO Dispatch Instruction Report |  |  |

s

**Appendix A.** Market Information Catalogue

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Market Information** | | | **Information Access** | | | |
| **Category** | **Specific Information** | **Information/ Data Source** | **Classification** | **Recipient** | **Means of Provision** | **Publication Timeline** |
| xxx |  |  |  |  |  |  |
| OTHERS | | | | | | |
| Transmission System Information | xxx | xxx | xxx | xxx | xxx | xxx |
| Dispatch ~~Deviation~~ **Instruction** Report by the System Operator (in CSV) ~~and Daily Operations Report~~ | System Operator | Public | Public | Market Information Website | ~~Within the next trading day~~ **Weekly report** **to be submitted within the following week** |
| **Revisions to the Dispatch Instruction Report by the**  **System Operator (in CSV)** | **System Operator** | **Public** | **Public** | **Market Information Website** | **Within five (5) *working days* upon receipt from the System Operator** |