

Stakeholder Comment and Replies Matrix

AESO AUTHORITATIVE DOCUMENT PROCESS

New PRC Reliability Standards Definition



Date of Request for Comment [yyyy/mm/dd]: 2011-09-27
Period of Consultation [yyyy/mm/dd]: 2011-09-27 through 2011-10-21

| Definitions – New | | | | |
|-----------------------------|----------------|---|--|---|
| Proposed September 27, 2011 | Final Proposed | Rationale | Stakeholder Comments and/or Alternate Proposal | AESO Reply |
| | | The equivalent NERC standard introduces the definition of “disturbance monitoring equipment”. It is the AESO’s opinion that this definition adds useful clarity to the reliability standard and proposes to adopt the definition in order to ensure consistency with the NERC standard. While the content is substantially similar, the AESO has changed the format slightly to remain consistent with its drafting principles. | AltaLink 1. Based on the AESO’s reply to AltaLink’s comments on Requirement 3 in the first stakeholder consultation for PRC-018, AltaLink assumes the AESO will provide the functional requirements of this equipment and the TFO or GFO will specify, select and install the appropriate equipment to meet the functional requirements. | 1. The AESO agrees with AltaLink’s comment. |

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| <p>“disturbance monitoring equipment” means protective relays, phasor measurement units and other devices capable of monitoring and recording system data pertaining to a disturbance, including:</p> <p>(i) sequence of event recorders which record equipment response to the disturbance;</p> <p>(ii) fault recorders, which record actual waveform data replicating the system primary voltages and currents and which include protective relays that provide this functionality; and</p> <p>(iii) dynamic disturbance recorders which record incidents that portray system behaviour during disturbances, such as low-frequency (0.1 Hz - 3 Hz) oscillations, abnormal frequency or voltage excursions.</p> | <p>“disturbance monitoring equipment” means protective relays, phasor measurement units and other devices capable of monitoring and recording system data pertaining to a disturbance, including:</p> <p>(i) sequence of event recorders which record equipment response to the disturbance;</p> <p>(ii) fault recorders, which record actual waveform data replicating the system primary voltages and currents and which <u>may</u> include protective relays that provide this functionality; and</p> <p>(iii) dynamic disturbance recorders which record incidents that portray system behaviour during disturbances, such as low-frequency (0.1 Hz - 3 Hz) oscillations, abnormal frequency or voltage excursions <u>and which may include phasor measurement units</u>.</p> | | <p>ATCO Power</p> <p>2. ATCO Power suggests that the definition for disturbance monitoring equipment be modified to the following: “disturbance monitoring equipment” means devices capable of monitoring and recording system data pertaining to a disturbance, including:</p> <p>(i) <i>sequence of event recorders which record equipment response to the disturbance;</i></p> <p>(ii) <i>fault recorders, which record actual waveform data replicating the system primary voltages and currents and which may include protective relays that provide this functionality; and</i></p> <p>(iii) <i>dynamic disturbance recorders which record incidents that portray system behaviour during disturbances, such as</i></p> | <p>2. While the AESO’s opinion is that its’ proposed definition of “disturbance monitoring equipment” does provide sufficient flexibility, it has largely adopted ATCO Power’s suggested edits in order to provide greater clarity. Please see the final proposed definition for “disturbance monitoring equipment”.</p> |

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| | | | <p><i>low-frequency (0.1 Hz - 3 Hz) oscillations, abnormal frequency or voltage excursions.</i></p> <p>The suggested change allows for more flexibility for those required to install a DME, while still meeting the intent of the functionality of the DME.</p> | |
| | | | <p>ENMAX</p> <p>3. Is the required DME a PMU or a Digital Fault Recorder? These could be two different devices. A possible suggestion is for the AESO to specify what is required to be installed; either a Digital Fault Recorder or a Phasor Measurement unit (or both). The definition is ambiguous as a Digital Fault Recorder can meet (i) and (ii) but a PMU may be required for (iii).</p> | <p>3. The disturbance monitoring equipment could be a digital fault recorder, sequence of events recorder or a phasor measurement unit, depending on what the AESO specifies for a particular installation.</p> <p>The AESO has updated the final proposed definition for “disturbance monitoring equipment” to clarify this issue.</p> |

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