

Memorandum

To: Technical Panel

From: Darren Byers

Date: May 5, 2026

Re: Updates to IESO Monitoring Requirements: Synchrophasor Data

Background

Attached for Technical Panel review and consideration are market rule amendments required to update grid connection requirements related to synchrophasor data. The rule amendments are needed to extend the existing synchrophasor requirements for transmitters and generators to storage participants, and will make other changes to these existing requirements for consistency and clarity.

At the April 14th Technical Panel meeting, the Panel voted to post the proposed market rule amendments for further stakeholder review and comment. No stakeholder comments were received during this posting period.

During the discussion at the April 14th meeting, Robert Reinmuller, representing Transmitters, indicated his support for the proposed changes, but cautioned the IESO that it will have to be patient and work together with impacted market participants on a reasonable and phased implementation, considering infrastructure and cost pressures to meet requirements. Following the April 14th meeting, the IESO had further discussions with Mr. Reinmuller to ensure it understood any concerns, and indicated that the proposed market rules and corresponding changes to Market Manual 1.7 – Synchrophasor Data Requirements recognize the need for a phased implementation plan. If a market participant, generator or transmitter, is required to provide or update synchrophasor data to the IESO in respect of multiple facilities commencing in the same calendar year, Market Manual 1.7 provides the ability for such market participant to request a staged implementation plan, and for the IESO to permit a staged implementation plan, subject to mutual agreement.

Additional Changes – Amendment proposal and Market Manual 1.7:

The original amendment proposal contained revisions to Appendix 4.15- monitoring requirements for Generators and Appendix 4.24 monitoring requirements for Electricity Storage Participants, and did not contain any proposed revisions to Appendix 4.16 which outlines monitoring requirements for Transmitters. Upon closer internal review, this was identified as an

oversight. While the current requirements for both generators and transmitters includes phasor data for only the positive phase, this is to be expanded to also include the negative and zero series phases as well, as indicated in the presentation to stakeholders in December 2025, and the Technical Panel in March 2026. To correct for this, additional changes have been made in Appendix 4.16- Monitoring Requirements for Transmitters, along with corresponding details in the market manual. The language mirrors the language specified for generators. To support Technical Panel review, the additional changes to these documents are highlighted in yellow.

Panel Action and Next Steps

The IESO recommends that the Technical Panel vote to recommend the proposed market rule amendments MR-00487-R00 to the IESO Board for approval at its June 11, 2026 meeting, with an effective date of December 2, 2026. Per the Technical Panel Terms of Reference, Panel members will be asked to provide reasons for their stated positions.

Accompanying Materials

- Market Rule Amendment Proposal – MR-00487-R00 Updates to IESO Monitoring Requirements: Synchrophasor Data
- Market Manual 1.7: Synchrophasor Data Requirements (for information purposes only).