

**Technical Panel Vote and Rationale on MR-00445 (Performance Requirements)
August 11, 2020**

TP Member	Constituency	Vote (In Favour)	Rationale
Robert Bieler	Consumers	Yes	
Ron Collins	Energy Related Businesses and Services	Yes	<p>I recommend MR—00445-R00 Performance Requirements August 2020 to the IESO Board for consideration based on the following rationale:</p> <p>The market rule amendment addresses the recommendations related to generation facility requirements from the 2019 Operability Study report, while improving and clarifying the language of several other performance requirements. Devoid of the proposed market rule amendment the IESO-controlled grid would be unduly exposed an unacceptable level of risk to the reliability of the IESO controlled grid.</p>
Rob Coulbeck	Importers/ Exporters	Yes	
David Forsyth	Market Participant Consumers	Yes	
Sarah Griffiths	Demand Response	Yes	
Robert Lake	Residential Consumers	Yes	
Phil Lasek	Market Participant Consumers	Yes	
Robert Reinmuller	Transmitters	Yes	<p>I voted in favor of the updated Performance Requirements for the following reasons and included recommendations for future approach.</p> <p>There has been extensive collaboration and stakeholdering on this topic over the past years. Hydro One has provided input throughout the IESO engagement directly or</p>

			<p>indirectly through industry participation (IEEE1547/NERC WG & Guidelines etc.) to ensure the technical fundamentals have been captured.</p> <p>The Interconnection Requirements specific to Ontario will need to be updated to adopt these changes by market participants. Hydro One will continue to recommend a phased approach to ensure that market participants, LDC's, generators etc. are not burdened with the changes and there is sufficient consideration for planning the work and funding the required changes</p> <p>In addition Hydro One continues to supports the direction of addressing larger units first (ex. larger than 1MW) that would have the most impact to the fundamental need that drives these updates and continue implementation with smaller units overtime.</p>
Sushil Samant	Market Participant Generators	Yes	
Joe Saunders	Distributors	Yes	<p>I voted "In Favour", to recommend MR-00445-R00, updates to Performance Requirements, Market Rule Appendices 4.2 and 4.3 to the IESO Board for review and approval. The proposed market rule amendment has been discussed at the May 26, 2020, June 23, 2020 and August 11, 2020 TP meetings and has gone through stakeholder engagement. This amendment to the performance requirements for generators, wholesale customers and distributors will expand applicability of several requirements to include all distributed energy resources.</p> <p>In addition to the clarification of language on performance requirements, this amendment addresses required behavior for</p>

			<p>inverter based facilities following disturbances to avoid current being injected onto the system during disturbances.</p> <p>As a result of staff presentations, TP discussions and stakeholder feedback, I voted in favour to recommend the amendment of the market rule to the IESO Board for consideration.</p>
Jessica Savage	IESO	Yes	<p>I vote in favor of recommending the Performance Requirements, appendices 4.2 and 4.3 (MR-00445-R00) updates in the proposed rule amendments to the IESO Board for approval because the proposed amendment improves the IESO's focus on reliability by specifying required behavior for inverter-based facilities during and immediately following disturbances to avoid these facilities ceasing to inject current during system disturbances.</p> <p>Also, the language of several other performance requirements is being clarified in order to help market participants better understand these requirements and are aligned with industry-wide standards (i.e. NERC and CSA).</p>
Vlad Urukov	Market Participant Generators	Yes	