

Information Document

Section 502.7 Load Facility Technical Requirements

ID #2019-051



Information documents are not authoritative. Information documents are for information purposes only and are intended to provide guidance. In the event of any discrepancy between an information document and any authoritative document¹ in effect, the authoritative document governs.

1 Purpose

This information document relates to the following authoritative document:

- Section 502.7 of the ISO rules, *Load Facility Technical Requirements* (“Section 502.7”)

The purpose of this information document is to provide clarifications respecting Section 502.7.

2 Background

Section 502.7 sets out the minimum technical requirements for the design, construction, and operation of any load facility that connects to the transmission system and any transmission facility to which a load facility connects.

3 Power Quality

Power quality requirements can be found in subsection 5 of Section 502.7. The AESO notes that all power quality indices and obligations are measured at the point of common coupling. In addressing power quality issues, such as the requirements in subsection 5(3), close coordination is encouraged between the legal owner of a load facility and the legal owner of the transmission facility to which the load facility is connected. Although 5(3) is imposed directly upon the legal owner of the transmission facility, it is expected that the legal owner of the transmission facility will consult with the legal owner of the load facility to arrive at the most cost effective solution before submitting an estimate to the AESO.

4 Grounding

Grounding requirements are set out in subsection 6 of Section 502.7. The transmission system with a nominal voltage of 100 kV or higher and several 69/72 kV transmission systems have been designed and are operated as an effectively grounded system. The AESO intends to continue to operate these transmission systems as effectively grounded systems. As such, when a load facility is connecting to a transmission system that is an effectively grounded system, it is expected that the legal owner of the transmission facility and the legal owner of the load facility will coordinate to design and operate their facilities accordingly.

Revision History

Posting Date	Description of Changes
2019-12-18	Initial Release

¹ “Authoritative Documents” is the general name given by the AESO to categories of documents made by the AESO under the authority of the *Electric Utilities Act* and associated regulations, and that contain binding legal requirements for either market participants or the AESO, or both. AESO Authoritative Documents include: the ISO rules, the Alberta reliability standards, and the ISO tariff.