

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 document<sup>1</sup> in effect, the authoritative document governs.

## 1 Purpose

This information document relates to the following authoritative documents:

- Section 502.3 of the ISO rules, *Interconnected Electric System Protection Requirements*; and
- ISO tariff.

The purpose of this information document is to provide market participants with clarity regarding the AESO's evaluation of T-tap connection options.

## 2 Background

A T-tap connection exists when a market participant's facility is connected to the transmission system by tapping directly to an existing transmission line, rather than connecting to a substation. A transmission line that includes one T-tap connection creates a transmission line with 3 terminals, where two terminals have connections to the networked transmission system. Additional T-tap connections increase the number of terminals on a transmission line.

The AESO evaluates and determines its preferred transmission development to connect a market participant's facility during the AESO's Connection Process. The preferred transmission development may involve a T-tap connection. For further information on the AESO's Connection Process please see information document ID #2018-018T, *Provision of System Access Service and the Connection Process*.<sup>2</sup>

## 3 Key Factors Considered

There are several key factors that the AESO considers when determining whether the AESO's preferred transmission development should include a T-tap connection. These factors include the impact of a T-tap connection on: the interconnected electric system; the proposed market participant's facility; existing and approved connection projects; overall project cost; environmental and land use effects; and stakeholders.

## 4 T-Tap Connection Mitigation Measures

When the AESO determines that the AESO's preferred transmission development includes a T-tap connection, one or more mitigation measure may be required to ensure the safe and reliable connection of the market participant's facility to the interconnected electric system. In addition, the AESO may require that a market participant has provisions at its facility to accommodate future modifications, including provisions to convert the T-tap connection to an in-and-out connection or to install a switching station. The AESO will inform market participants in writing if mitigation measures are required.

### Revision History

Date	Description
2020-05-15	Initial release

<sup>1</sup> "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. Authoritative documents include: the ISO rules, the reliability standards, and the ISO tariff.

<sup>2</sup> Information document ID #2018-018T, *Provision of System Access Service and the Connection Process*, is available on the AESO website.