

Definitions

Project 2014-03 Revisions to TOP/IRO Reliability Standards

As part of the work in Project 2014-03 Revisions to TOP/IRO Reliability Standards, the SDT is proposing changes to two existing definitions: Operational Planning Analysis and Real-time Assessment.

The currently-effective definition of Operational Planning Analysis is: *“An analysis of the expected system conditions for the next day’s operation. (That analysis may be performed either a day ahead or as much as 12 months ahead.) Expected system conditions include things such as load forecast(s), generation output levels, and known system constraints (transmission facility outages, generator outages, equipment limitations, etc.).”*

The proposed version of the definition of Operational Planning Analysis is: *“An evaluation of projected system conditions to assess anticipated (pre-Contingency) and potential (post-Contingency) conditions for next-day operations. The evaluation shall reflect applicable inputs including, but not limited to, load forecasts; generation output levels; Interchange; known Protection System and Special Protection System status or degradation; Transmission outages; generator outages; Facility Ratings; and identified phase angle and equipment limitations. (Operational Planning Analysis may be provided through internal systems or through ~~contracted~~third-party services.)”*

The currently-effective definition of Real-time Assessment is: *“An examination of existing and expected system conditions, conducted by collecting and reviewing immediately available data.”*

The proposed version of the definition of Real-time Assessment is: *“An evaluation of system conditions using Real-time data to assess existing (pre-Contingency) and potential (post-Contingency) operating conditions. The assessment shall reflect applicable inputs including, but not limited to: load, generation output levels, known Protection System and Special Protection System status or degradation, Transmission outages, generator outages, Interchange, Facility Ratings, and identified phase angle and equipment limitations. (Real-time Assessment may be provided through internal systems or through ~~contracted~~third-party services.)”*

The definitions were revised in response to issues raised in NOPR paragraphs 55, 73, and 74 on analysis and monitoring of SOLs in all time horizons, NOPR paragraph 70 (updating study results in Real-time), and NOPR paragraph 78 (Protection System coordination). The phase angle item was added in response to SW Outage Report recommendation 27.

The two definitions are also employed in the following proposed project standards: TOP-001-3, TOP-002-4, TOP-003-3, IRO-002-4, IRO-008-2, and IRO-010-2. These definitions are not used in any other standards, either currently-effective or in development in any other project.