

Proposed Definitions of: "System Operating Limit" (SOL) and "SOL Exceedance"

Term: "System Operating Limit" (SOL)

Revised Definition:

Facility Ratings, System Voltage Limits, and stability limits used in the operation of the BES.

Redline Definition:

Facility Ratings, System Voltage Limits, and stability limits used in the operation of the BES.

~~The value (such as MW, Mvar, amperes, frequency or volts) that satisfies the most limiting of the prescribed operating criteria for a specified system configuration to ensure operation within acceptable reliability criteria. System Operating Limits are based upon certain operating criteria. These include, but are not limited to:~~

- ~~• Facility Ratings, (applicable pre and post Contingency Equipment Ratings or Facility Ratings)~~
- ~~• transient stability ratings (applicable pre and post Contingency stability limits)~~
- ~~• voltage stability ratings (applicable pre and post Contingency voltage stability)~~
- ~~• system voltage limits, (applicable pre and post Contingency voltage limits)~~

Term: "SOL Exceedance"

Definition:

An operating condition or analysis result characterized by any of the following, as determined in Real-time monitoring, Real-time Assessments (RTA) or Operational Planning Analysis (OPA):

The pre-Contingency state indicates any of the following:

- Actual flow through a Facility is above the Facility's Normal Rating
- Actual bus voltage is outside normal System Voltage Limits
- A stability limit established to prevent instability without a Contingency is exceeded
- A stability limit established to prevent the Contingency from resulting in instability is exceeded

The calculated post-Contingency state indicates any of the following:

- Flow through a Facility is above the Facility's highest Emergency Rating, or above a Facility Rating for which there is not sufficient time to reduce the flow to established acceptable levels should the Contingency occur

- Bus voltage is outside the highest or lowest emergency System Voltage Limit, or outside a System Voltage Limit for which there is not sufficient time to bring the bus voltage to established acceptable levels should the Contingency occur
- Defined stability performance criteria are not met