

ALR 1-4 BPS Transmission Related Events Resulting in Loss of Load

Metric Number	ALR1-4
Submittal Date	February 27, 2009
Sponsor Group (OC, PC or subgroup name)	RMWG
Short Title	Transmission related events resulting in loss of load
Metric Description	Number of transmission related events resulting in loss of load
Purpose	Tracking BPS transmission related credible events which result in loss of load allows planners and operators to validate their design and operating criteria assuring acceptable performance of the system.
How will it be suited to indicate performance?	The relative number (3 or less) provides an indication of good performance or (greater than 3) bad performance measured at a BA, Reliability Organization, Planning Authority, or Interconnection.
Formula	<p>Number of events in a year.</p> <p>“Event” is an unplanned disturbance that produces an abnormal system condition due to equipment failures/system operational actions which result in the loss of firm system demands for more than 15 minutes, as described below (per Standard EOP-004):</p> <ol style="list-style-type: none"> 1. Entities with a previous year recorded peak demand of more than 3,000 MW are required to report all such losses of firm demands totaling more than 300 MW. 2. All other entities are required to report all such losses of firm demands totaling more than 200 MW or 50 percent of the total customers being supplied immediately prior to the incident, whichever is less. 3. Firm load shedding of 100 MW or more to maintain the continuity of the BPS reliability.
Time Horizon	Historical and current year perspective
Metric Start Time or Baseline	2002, or whenever data first became available
Data Collection Interval and Roll Up	NERC Standard EOP-004 and OE-417 requires reporting of the data
Ease of Collection	Data is available; may require some adjustments to accommodate all the different groups for measurement.
Aggregation	BA, Reliability Organization, Planning Authority, or Interconnection
Linkage to NERC Standard	NERC Standard EOP-004 and OE-417
Linkage to Data Source	NERC data base
Need for Validation or	Need to validate completeness and consistency of reporting by entities

Pilot

Data Submitting Entity

Entities responsible for submitting EOP-004 and OE-417 reports

SMART Rating

Total Score	Specific/ Simple	Measurable	Attainable	Relevant	Tangible/ Timely
15	3	3	3	3	3

Reporting

Style (look and feel)

Bar Chart or line chart

Publications & Documentation (section of LTRA)

Seasonal, long-term and monthly performance reports on reliability assessment