ALR1-12 Interconnection Frequency Response

Metric Number	ALR1-12
Submittal Date	June 18, 2009
Sponsor Group (OC, PC or subgroup name)	Resources Subcommittee
Short Title	Interconnection Frequency Response
Metric Description	The metric is to track and monitor Interconnection Frequency Response.
Purpose	There is evidence of continuing decline in Frequency Response in the three Interconnections over the past 10 years, but no confirmed reason for the apparent decline. The metric data trends and analysis will assist in identifying root causes of decline.
How will it be suited to indicate performance?	Frequency Response is a measure of an Interconnection's ability to stabilize frequency immediately following the sudden loss of generation or load. It is a critical component to the reliable operation of the bulk power system, particularly during disturbances and restoration.
Formula	Average frequency responses for all events where frequency drops more than 35 MHz within a year
Time Horizon	Historic view
Metric Start Time or Baseline	1999 or when data is first available
Data Collection Interval and Roll Up	Quarterly
Ease of Collection	Available from ARR report[1]
Aggregation	Interconnection
Linkage to NERC Standard	BAL-003
Linkage to Data Source	Resource Adequacy Application
Need for Validation or Pilot	No
Data Submitting Entity	Balancing Authorities

SMART Rating	Total Score	Specific/ Simple	Measurable	Attainable	Relevant	Tangible/ Timely
	11	2	2	2	3	2

Reporting

Style (look and feel)	Line graphs of actual values or deviations from nominal.
Publications and Documentation	This metric will be included in NERC RMWG reports

[1] The CERTS/EPG Automatic Reliability Report (ARR) application provides a summary of load-generation, resource adequacy and control performance for the three NERC interconnections (Eastern, Western, and ERCOT).