

Daily Frequency Outliers/Noise

Specifications

- Metric number – ALR1-11
- Submittal date – June 18, 2009
- Sponsor group (OC, PC or subgroup name) – Resource Subcommittee
- Short title – Daily Frequency Outliers
- Purpose – Excessive daily frequency noise (RMS1) outliers have been found to be a good indicator of adequacy problems (control adequacy, reserve adequacy, transmission adequacy). There would be value in maintaining summary information on the cause(s) of the outlier days.
- SMART Rating – TBD
- How will it be suited to indicate performance? – Tracking and monitoring excessive daily frequency noise outliers will indicate improvement and decline of frequency control performance.
- Metric Description – The metric is to use one minute frequency deviation data and calculate RMS (root-mean-square) for the day
- Formula – Number of outlier days per month or mean time between outlier days
- Time Horizon – Historic view
- Metric Start Time or Baseline – 2006
- Data collection Interval and roll up – Monthly, on peak and off peak
- Ease of collection – Available from ARR reports
- Aggregation – Interconnection
- Linkage to NERC Standard – BAL-001
- Linkage to Data Source – Resource Adequacy Application
- Need for validation or pilot – No

Reporting

- Can metrics drill down to an individual entity? – No
- Style (look and feel) – Bar Chart
- Publications and documentation – NERC website and annual metric report
- Heisenberg effect – No