2010 TPL Assessments

April 29, 2011

Ron Ciesiel
Executive Director of Compliance
Southwest Power Pool
TPL Standards

• TPL Standards in effect
  • TPL-001-0
  • TPL-002-0b
  • TPL-003-0a
  • TPL-004-0

• Version 2
  • Currently out for comments and ballot
  • More on this later
Requirements

- Applicability
  - Transmission Planners
  - Planning Coordinators

- Specific issues
  - ‘... Transmission Planner shall “each” demonstrate’
  - ‘through a “valid assessment” …’
Current Practices

• SPP Transmission Working Group collectively works with the SPP Engineering Group to perform a series of studies for all of the registered Transmission Planners in the SPP RE footprint

• Report is issued annually describing studies performed throughout the planning year

• SPP RE reviews and makes a finding on the report
Issues

• Current version of standards applies to ‘each Transmission Planner’

• Transmission Planner is required to make an assessment of studies for its portion of the footprint
  • SPP annual report is not an assessment
  • Only nominal verbage on individual TP footprints
What Is Required For 2010 Planning Year

• SPP RE has not released its findings on 2010 SPP TWG Compliance Report
  • Publication date is expected on May 31, 2011
  • Will consider 2010 planning year closed at that time

• Registered Transmission Planners must make an assessment of its TP footprint
  • Assessment must be written for the individual TP’s footprint
What Is Required For 2010 Planning Year [cont.]

• Follow the underlying requirements in the standards

1. How did the SPP TWG activities cover the TP footprint?
   A. SPP TWG Compliance report provides good basics and background information
   B. Did the studies performed cover individual TP footprint for stability, thermal and voltage issues based on TPL table

2. Discuss known issues in your TP footprint, such as
   A. SPS tie lines
   B. Acadiana Load Pocket
   C. Wolf Creek stability
   D. High levels of EEA activity
   E. High levels of TLR activity
What Is Required For 2010 Planning Year [cont.]

- What solutions were considered to mitigate violations, in your TP footprint, that came out of studies

1. What solution made it to the final construction/operating procedure list

2. If construction/operating procedure list is different from previous year, explain differences [additions/deletions]
What to do if a gap in studies is found

• If you find a gap in the TWG activities, you can fill in:
  • With your own studies,
  • With extra studies added to TWG report,
  • With prior studies that are still valid

• Most likely areas of gaps
  • Stability
  • Extreme Conditions
Proposed Revision to TPL Standards [V2]

- No proposed change to Applicability
- No proposed change to ‘each Transmission Planner’ language
- No proposed change to ‘assessment’ requirements – see added nominal definition of ‘assessment’
- Added criteria in revisions
  - R2.1.4 A sensitivity test is required to stress the system
  - R2.1.5 An analysis on impact of system performance when spare equipment is unavailable for one year or more
Proposed Revision to TPL Standards [cont.]

• Added criteria in revisions [cont.]
  • R2.3 Addresses required short circuit studies
  • R2.4 There is a difference in the required load model (inductive load must be explicitly modeled) – currently the MDWG uses constant load
  • R2.7.3 There is an increased documentation requirement for projects that are delayed in the construction process
  • R3.3 The effects of low voltage on generator trips must be included. (i.e. line trips, voltage drops, then generator trips)
Proposed Revision to TPL Standards [cont.]

• Added criteria in revisions [cont.]
  • R3.5 A cascading problem identified by the study must be explicitly mitigated.
  • R5 A requirement to study a transient voltage problems
Recommendations

- Registration Changes
  - Joint Registration
  - Any registration proposed to be removed must be covered by other existing registered entity or new registered entity

- Propose changes to posted revision
  - Add ‘collective effort’ or ‘RTO process’ to standard

- Propose Regional Waiver

- Change TWG process
  - Add individual assessments to TWG report
Questions