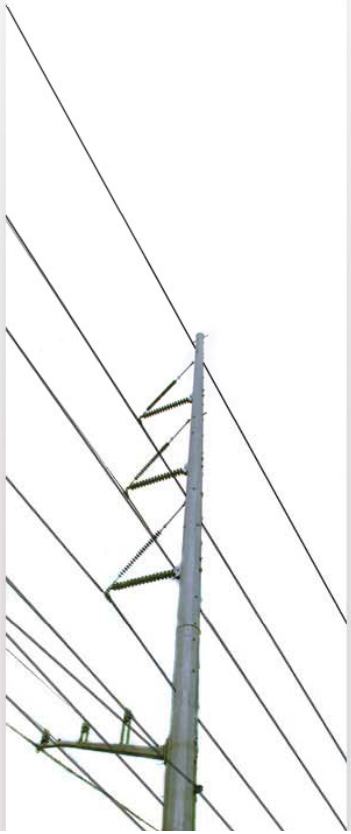
Southwest Power Pool



Helping our members work together

to keep the lights on...

today & in the future

2010 ESRPP Cycle Study Scope

Eric Burkey
ESRPP Net-Conference
4/20/2010

Overview of Study Assumptions

- **Upgrades will be evaluated through load flow analysis to determine their scope and benefit.**
- **Upgrades will be studied in a long-term Entergy/SPP RTO combined model.**
- **Upgrades will focus on EHV expansion, rather than upgrading the underlying system.**

Powerflow Models

- **Base Model**
  - **2016 Summer Peak Base Case Model (Entergy and SPP RTO MDWG)**
  - **Includes 2010-2012 Construction Plan (CP) projects (approved) and Board Approved SPP RTO 2009 STEP projects**
- **Change Model**
  - **Add transfer and other study project requirements**
  - **Analyze transfer results**
  - **Develop and test upgrades to relieve constraints**

Contingency Scan

- **Monitored and Contingent Elements**
  - **115 kV and above elements within:**
    - **Entergy and SPP Zones adjacent to the Entergy/SPP Seam**
  - **All elements 345 kV and above in SPP and Entergy**
- **Category A: The model will be evaluated under normal, system-intact conditions.**
- **Category B: N-1 Contingency Scan (no breaker-to-breaker scan)**
- **Category C: Limited Multiple Contingency Scan**

General Study Assumptions for 2010 ESRPP Step 2 (Detailed Analysis) Studies

- **A 2009 Cycle project can be evaluated in more detail.**
- **Detailed cost estimates and timelines for the projects will be provided.**
- **A full AC contingency analysis (N-1) will be performed on the base and change models.**

General Study Assumptions for 2010 ESRPP Step 1 (High-Level Analysis) Studies

- **The high-level project proposals for 2010 cycle should increase transfer capability between a control area in SPP and a control area in Entergy (including Entergy), specifying a transfer amount. (POR/POD, MW)**
- **Planning-level cost estimates and construction timelines**
- **MUST DC analysis of FCITC.**

Other Information in Scope

- **ESRPP Background and Objectives**
- **2010 ESRPP Cycle Schedule**

Southwest Power Pool

Eric Burkey
ICT Planning, Engineer
501-688-1665
eburkey@SPP.org
or
ESRPP@SPP.org