PJM – SERTP
Planning Process Overview

Order 1000 Biennial Regional Transmission Plan Review Meeting – Presentation 1 of 2

May 7th, 2020
Agenda

• SERTP – Process Overview
  – Background
  – SERTP Region Scope
  – Processes and Timelines
SERTP

PROCESS OVERVIEW
Southeastern Regional Transmission Planning Process (SERTP)

- Originally formed in 2007 to comply with FERC Order 890
- Provides open and transparent transmission planning forum for transmission providers to engage with stakeholders regarding transmission plans in the region
- Began regional implementation of Order 1000 requirements on June 1, 2014
- Began interregional implementation of Order 1000 on January 1, 2015
Southeastern Regional Transmission Planning (SERTP)
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SERTP Quarterly Stakeholder Meetings

Q1: 1st RPSG Meeting & Interactive Training Session
- Form RPSG
- Select Five Economic Planning Studies
- Stakeholder Training Session

Q2: Preliminary Expansion Plan Meeting
- Review Modeling Assumptions
- Preliminary 10 Year Expansion Plan
- Stakeholder Input & Feedback Regarding the Plan

Q3: 2nd RPSG Meeting
- Preliminary Results of the Economic Planning Studies
- Stakeholder Input & Feedback
- Previous Stakeholder Input on the Expansion Plan

Q4: Annual Transmission Planning Summit & Input Assumptions Meeting
- Final Results of the Economic Planning Studies
- Regional Transmission Plan
- Regional Analyses
- Stakeholder Input on Upcoming Year Transmission Model Input Assumptions
SERTP Regional Models

- SERTP will develop 6 coordinated regional models
- Models include latest transmission planning model information within the SERTP region
- Typically 3 versions created annually
- Available on the Secure Area of the SERTP website for those that have executed the Planning Coordinator – Transmission Planner NDA for regional information exchange.
  - Prefer to Limit of 2-3 with capabilities to retrieve the information from the SERTP Secure Area.

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Economic Planning Studies

• SERTP stakeholders can request up to five economic planning studies be performed annually

• These studies represent analyses of hypothetical scenarios requested by the stakeholders and do not represent an actual transmission need or commitment to build

• SERTP Sponsors identify the transmission requirements needed to move large amounts of power above and beyond existing long-term, firm transmission service commitments
  – Analysis is consistent with NERC standards and company-specific planning criteria

• **2019 SERTP Economic Planning Study Report**
Regional Transmission Analyses are performed during the course of each transmission planning cycle in order to:

1) Assess if the then current regional transmission plan addresses the Transmission Provider’s transmission needs

2) Assess whether there may be more efficient or cost effective transmission projects to address transmission needs

- **2019 SERTP Regional Analyses Summary**
Regional Transmission Plan

2019 SERTP Regional Transmission Plan

Generation Assumptions/Changes

Project Descriptions, Drivers, Contingencies
SERTP Region - Interregional Seams
Regional/Interregional Process Timing

**Cost Allocation Project Proposal Deadline (60 days after Q4 Meeting)**

**Pre-Qualification Application Deadline for Upcoming Year (Aug. 1st)**

**Preliminary Expansion Plans**

**Final 2018 Regional Plan v3 SERTP Models**

**Typical Timeline for Regional Analyses:**
Regional/Interregional Project Evaluation\(^1\), Model Assessment, and Final Regional Plan Development

1. If a potential transmission project proposed for cost allocation satisfies the initial evaluation, a schedule will be developed in consultation with the transmission developer to provide additional detailed information for further detailed analysis.
Regional Cost Allocation

• **Scope of a Regional Project Eligible for Cost Allocation**
  – Transmission line located in the SERTP region
  – 300 kV or greater
  – Spans at least 50 miles
  – Must have significant electrical or geographical differences from projects already under consideration

• **Benefits Considered**
  – Avoided costs of displaced transmission
  – Real power loss savings (regional only)

• **Evaluations**
  – Qualitative & Quantitative – 1.25 Benefit-to-Cost (BTC) Ratio
  – Feasibility
  – State jurisdictional and/or governance authorities opportunity for review
Interregional Project for Cost Allocation Must:

- Interconnect to facilities in both the SERTP and MISO regions
- Have a BTC of at least 1.25 in the SERTP Region
- Meet regional qualifications
- Be proposed in both regional processes
Interregional Coordination

- Meet annually to facilitate coordination procedures
- Website postings
- Annually exchange power-flow models
- Annually exchange regional transmission plans
- Meet biennially to review regional transmission plans
- Coordinate on any joint evaluations of potential interregional transmission projects
QUESTIONS?

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