

# Santee Cooper Attachment K and SCE&G Attachment K

## Santee Cooper OATT Attachment K and SCE&G OATT Attachment K

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Transmission Planning

# Santee Cooper Attachment K and SCE&G Attachment K

## Presentation Topics

- Santee Cooper Internal Planning Process
- SCE&G Internal Planning Process
- Regional Planning Process Summary
- Inter-Regional Participation Process

# Santee Cooper Attachment K and SCE&G Attachment K

## Santee Cooper Annual Internal Transmission Planning Process

- Process developed with Central and its member coops over the past 27 years
- Central's load is 3,200+ MW
- Santee Cooper and Central jointly plan the Transmission System
- Two parallel processes
  - Meetings for information exchange
  - Technical evaluation of transmission system against the NERC Mandatory Reliability Standards

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## Santee Cooper Annual Internal Transmission Planning Process

### Transmission Planning Meetings

- Santee Cooper and Central meet annually with each member cooperative to discuss transmission expansion plans, distribution expansion plans, and identify high load growth areas
- Santee Cooper and Central meet quarterly to exchange transmission data, load projections, status of transmission construction, and proposed new projects
- Santee Cooper and industrial customers meet semi-annually to discuss transmission and other issues and receive potential plans to expand their load

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## Santee Cooper Annual Internal Transmission Planning Process

### Technical Evaluation of the Transmission System

- Develop Internal Computer Model of Transmission System
- Analyze Transmission System Based on NERC Mandatory Reliability Standards and Santee Cooper Planning Criteria
- List Voltage or Loading Concerns Identified in Analysis
- List Options that Solve Identified Transmission Concerns
- Take into Consideration, Results of Transmission Assessment Studies (VACAR, SERC, ERAG, etc.)
- Select Least-Cost Solution to Address all Identified Concerns on the Transmission System

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## SCE&G Internal Transmission Planning Process

Long-standing:

- Transmission planning criteria
  - SCE&G Planning Criteria (1970 – current)
  - NERC Reliability Standards (1996 – current)
- Information sharing and data exchange with wholesale customers
- Participation in wide-area transmission assessments
  - VACAR
  - SERC
  - ERAG
- Participation in inter-company transmission planning

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## SCE&G Transmission Planning Process

Long-standing planning purpose to:

- transmit electric power from SCE&G generators to SCE&G retail and full-requirements wholesale customers
- provide Transmission Service to OATT Network and PTP Customers
- provide Interconnection Service to all generators
- develop long-term least cost plan
- maintain synchronism with the Eastern Interconnection

Provide all services while being fully compliant with all applicable standards

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## Planning Process Enhancements

- South Carolina Regional Transmission Planning (SCRTP) Process
  - Stakeholder Participation
  - Stakeholder Meetings
  - 9 Principles

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## Stakeholder Participation

### South Carolina Regional Transmission Planning - Stakeholder Group (SCSG)

- Transmission Owners/Operators
- Network and PTP OATT Customers
- Cooperatives
- Municipals
- Marketers
- Generation Owners/Developers
- ISO/RTO
- State Regulatory Representatives

SCSG will meet 4 times per year

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## Types of Transmission Planning

- Reliability Transmission Planning (RTP) process
  - The RTP process is the traditional transmission planning process that is used by Santee Cooper and SCE&G to provide safe and reliable transmission service at the lowest reasonable cost
- Economic Transmission Planning (ETP) process
  - The ETP process will determine the facilities or system changes on the Santee Cooper and/or SCE&G transmission systems to increase transfer capability

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## Fall Stakeholder Meeting

- Current Reliability Expansion Plan reviewed
  - Stakeholder input received
- Data and Information Exchanged
  - Forecasted needs of Network and PTP customers
- Reliability Study Key Assumptions and Modeling discussed
  - Stakeholder input received
- Reliability Planning Process reviewed
  - Stakeholder input received

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## Winter Stakeholder Meeting

- Reliability Study results reviewed
- Multi-party Reliability Study results reviewed
- SERC, VACAR and ERAG Assessment Study results reviewed

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## Spring Stakeholder Meeting

- Stakeholders identify Economic Power Transfer Study candidates
- Economic Power Transfer Studies with sources or sinks outside the Santee Cooper and SCE&G systems will be submitted to the Inter-Regional Participation Process
- Stakeholders select up to 5 to be studied

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## Summer Stakeholder Meeting

- Economic Power Transfer Study results reviewed
  - Impacted facilities
  - Solution options
  - Cost and time estimates

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## Planning Process Enhancements

- Santee Cooper and SCE&G are Participating Transmission Providers in the Southeastern Inter-Regional Participation Process