

South Carolina Regional Transmission Planning

Stakeholder Meeting

Teams Meeting

October 19, 2026 2:00pm – 4:00pm

Dominion Energy®

santee cooper

Purpose and Goals for Today's Meeting

- Review and Discuss the Initial Results of the Stakeholder Selected Economic Power Transfer Sensitivities

- FERC Order 1920 Update



Economic Transmission Planning Studies

Chris May (SCPSA)
Jeff Neal (DESC)

Dominion Energy®

santee cooper



Study Methodology

- Linear transfer analysis using PowerGem's TARA Software. This analysis includes select single contingencies while monitoring DESC's and Santee Cooper's internal Transmission Systems.

- A Thermal and Voltage analysis using PowerGem's TARA and/or PowerWorld Simulator Software. This analysis of DESC's and Santee Cooper's internal transmission systems included single contingencies, double contingencies and selected bus outages with and without the simulated transfer in effect. However, this analysis is not a complete testing of NERC TPL 001 standard.

Dominion Energy®

santee cooper



Case Development

- The most current LTWG models were used for the systems external to DESC and SCPSA as a starting point for the study case(s).
- The study case(s) include the detailed internal models for DESC and SCPSA. The study case(s) include new transmission additions currently planned to be in-service for the given year (i.e. in-service by winter 2026 for 2026W case).
- Base Cases were used to build the transfer cases using the requested economic study requests.

Dominion Energy®

santee cooper

Study Results

- DESC and SCPSA have reported results based on thermal loading and voltage violations in accordance with their planning criteria.

- Overloaded facilities that had a low response to the requested transfer were excluded and problems or issues identified that are local area in nature were also excluded.



Proposed 2026 Public Policy Study Scenario

Offered by Stakeholders During the May 28, 2026 Meeting

Source : Executive Order 14302 of May 23, 2025 Reinvigorating the Nuclear Industrial Base

Request: Provide a description of the needed transmission capability or transmission functionality associated with the Public Policy Requirements. If applicable, provide a description of the electric power source and sink points associated with the Public Policy Requirements and the amount of electric power associated and timing associated with the Public Policy Requirements.

Source: An additional 2200 MW at V.C. Sumner, due to units 2&3 completing construction and beginning commercial operation by 2036.

In addition to generation in base case, include that combined cycle generation at Canadys Station is online with a generator interconnection agreement by 2036.

Lastly, include a scenario of V.C. Sumner 2&3 being operational in 2036 without Canadys achieving interconnection.

Dominion Energy®

santee cooper



SCRTP Determination of submitted PPR

- The SCRTP Sponsors and stakeholders thoroughly discussed the PPR request submitted in the previous slide.
- SCRTP sponsors indicated that Executive Orders do not fall under the FERC definition of Public Policy Requirements.
- Having said that, the sponsors indicated that the VC Summer 2/3 nuclear plants are in the Santee Cooper Cluster study to be conducted in 2026 which will begin in June. That interconnection study will reveal the constraints and upgrades necessary on the Santee Cooper system to support the projects in the queue, including proposed projects at V.C. Summer.

Dominion Energy®

santee cooper

2026 Economic Planning Scenarios

Selected by Stakeholders During the May 28, 2026 Meeting

#	Source	Sink	Amount (MW)	Year	Study Conditions	Study Request
1	SOCO	DESC/SCPSA	800 (400/400)	2036S	Gen - Load	SACE
2	SOCO	DESC/SCPSA	800 (400/400)	2036W	Gen - Load	SACE

Dominion Energy®

santee cooper



Power Flow Base Cases

- 2026 LTWG Series PSSE Models
  - 2036S LTWG DBU
  - 2036W LTWG DBU
- DESC and SCPSA 2026 Internal Model Updates
  - 2036 Summer
  - 2036/37 Winter
- Studies modeled 400 MW loads at SCPSA's Varnville 230-115-69 kV Substation and DESC's Jasper 230 kV Switching Station

Dominion Energy®

santee cooper



Preliminary Result Components

- The following information is preliminary and subject to change pursuant to additional analyses.
- The following information does not represent a commitment to proceed with the recommended enhancements nor implies that the recommended enhancements could be implemented by the study dates.
- These potential solutions only address constraints identified within the respective areas that comprise the SCRTP. Balancing Areas external to the SCRTP were not monitored, which could result in additional limitations and required system enhancements.

Dominion Energy®

santee cooper

Scenario 1

2036 Summer
SOCO – (DESC/SCPSA) 800 MW

Preliminary Results – SCPSA

SOCO – (DESC/SCPSA) 800 MW
2036 Summer Study

Constrained Facility	% Base Loading	% Study Loading	Contingency	Project Solution
No new constraints**				

**Potentially overloaded or heavily loaded facilities that had a low response to the requested transfer were excluded and problems or issues identified that are local area in nature were excluded

Dominion Energy®

santee cooper

Preliminary Results – SCPSA

SOCO – (DESC/SCPSA) 800 MW
2036 Summer Study

Project	Description	Cost ($M)	Duration (Months)
	N/A		
	TOTAL	0	0



Preliminary Results – DESC

SOCO – (DESC/SCPSA) 800 MW
2036 Summer Study

Constrained Facility	% Base Loading	% Study Loading	Contingency	Project
No new constraints*				

*Potentially overloaded or heavily loaded facilities that had a low response to the requested transfer were excluded and problems or issues identified that are local area in nature were excluded

Dominion Energy®

santee cooper

Preliminary Results – DESC

SOCO – (DESC/SCPSA) 800 MW
2036 Summer Study

Project	Description	Cost ($M)	Duration (Months)
	N/A		
	TOTAL	0	0

Scenario 2

2036 Winter
SOCO – (DESC/SCPSA) 800 MW

Preliminary Results – SCPSA

SOCO – (DESC/SCPSA) 800 MW
2036 Winter Study

Constrained Facility	% Base Loading	% Study Loading	Contingency	Project Solution
Yemassee-Yemassee 230 kV tie (SC/DESC)	57%	94%	Bluffton-Purrysburg 230 kV line & Purrysburg 230-115 kV Transformer (P6)	SC1 & SC2
Yemassee 230 kV bus voltages	0.94 pu	0.88 pu	Bluffton-Purrysburg 230 kV line & Yemassee-Yemassee 230 kV tie (P6)	SC1 & SC2

**Potentially overloaded or heavily loaded facilities that had a low response to the requested transfer were excluded and problems or issues identified that are local area in nature were excluded

*Only select contingencies are shown

Dominion Energy®

santee cooper



Preliminary Results – SCPSA

SOCO – (DESC/SCPSA) 800 MW
2036 Winter Study

Project	Description	Cost ($M)	Duration (Months)
SC1	Hampton 230 kV Switching Station	Internal Plan**	53
SC2	Purrysburg-Hampton 230 kV line	Internal Plan**	71
		TOTAL	71

** These projects are already considered as part of SCPSA's transmission plans to address system needs. Load additions at the locations requested from this study caused additional thermal and voltage violations.

Dominion Energy®

santee cooper

Preliminary Results – DESC

SOCO – (DESC/SCPSA) 800 MW
2036 Winter Study

Constrained Facility	% Base Loading	% Study Loading	Contingency	Project
Okatie – McIntosh 115 kV Tieline (DESC/SOCO)	45%	96%	Purrysburg – McIntosh 230 kV #1 & #2 (P7)	DESC1

*DESC has Op Guides to reduce some base case overloads that would not be relied on in transfer cases

**Potentially overloaded or heavily loaded facilities that had a low response to the requested transfer were excluded and problems or issues identified that are local area in nature were excluded

Dominion Energy®

santee cooper

Preliminary Results – DESC

SOCO – (DESC/SCPSA) 800 MW
2036 Winter Study

Project	Description	Cost ($M)	Duration (Months)
DESC1	Jasper – West McIntosh 230 kV Tie line B-ACSS High Temp Conductor (DESC/SOCO)	17	52
	TOTAL	$17	52

Dominion Energy®

santee cooper

Preliminary Results – DESC

SOCO – (DESC/SCPSA) 800 MW
2036 Winter Study

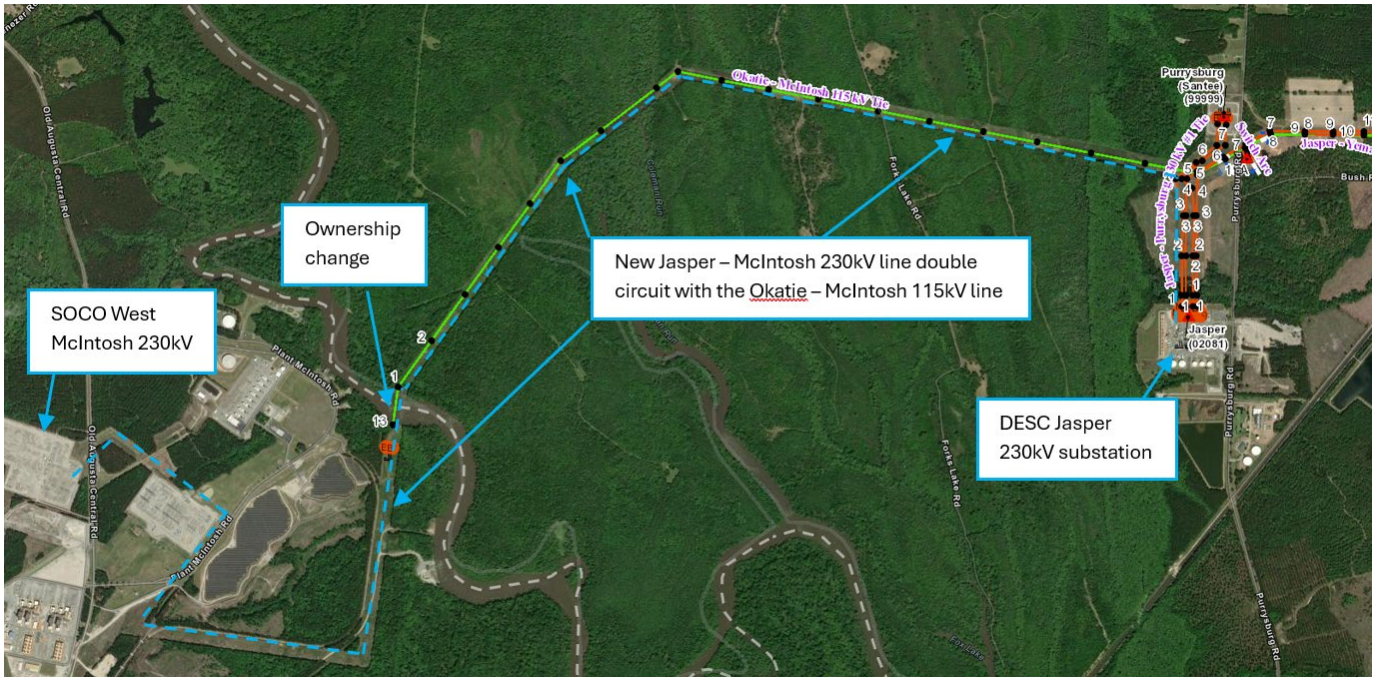


Figure 1
Jasper – West McIntosh 230 kV Interconnection

Dominion Energy®

santee cooper

FERC Order 1920 Update

Scott Parker (DESC)
Weijian Cong (SCPSA)

Dominion Energy®

santee cooper

FERC ORDER 1920

- Landmark Order requiring major changes to regional transmission planning process and cost allocation
- Build on Orders 890 and 1000
- FERC granted extension of the SERTP Compliance Filing Deadlines for Order 1920
  - Regional Compliance Filing Deadline is December 12, 2026
  - Interregional compliance Filing Deadline is February 12, 2027
- Order 1000 process for SCRTP will continue for remainder of 2026

FERC ORDER 1920

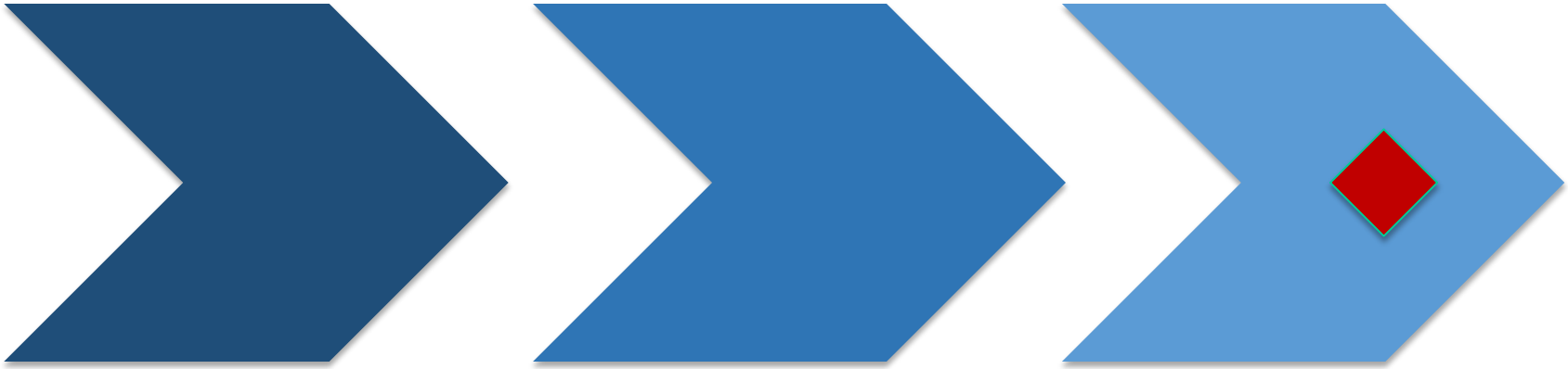
- Pending FERC approval of Dominion's October 6, 2026 Section 205 filing, SCRTP plans to merge with SERTP as part of compliance with Order 1920, beginning January 1, 2027
- Plans have been announced on SCRTP and SERTP websites
- Compliance efforts will be conducted jointly as part of SERTP compliance process
- All updates provided by means of Southeastern Regional Transmission Planning | Home | Southeastern Regional Transmission Planning and subscribing to SERTP mailbox

Dominion Energy®

santee cooper

South Carolina Regional Transmission Planning

FERC Order 1920 Compliance Roadmap



OCTOBER

Compliance Strategy

NOVEMBER

Tariff Development

DECEMBER

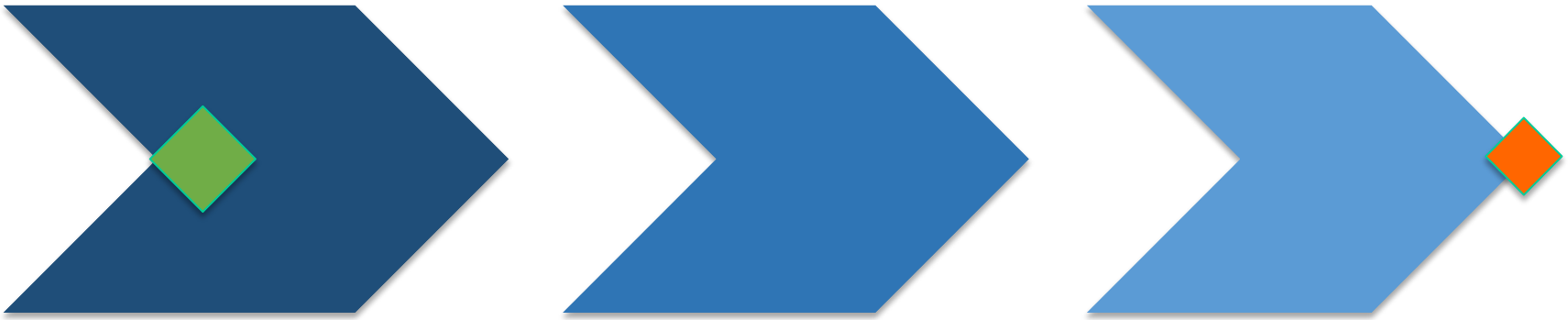
Filing Package Finalization
Executive Approval
Submit Filing by 12/12/26

2026 SERTP ORDER 1920 FILING

Dominion Energy®

santee cooper

SCRTP / SERTP Merger Roadmap



OCTOBER

Strategy Alignment
Stakeholder Engagement
Section 205 Filing 10/6/26

NOVEMBER

Process Harmonization

DECEMBER

Implementation Planning

- **SCRTP submitted Section 205 Filing to enroll in SERTP**
- **SCRTP/SERTP Merger Effective Date 01/01/27**

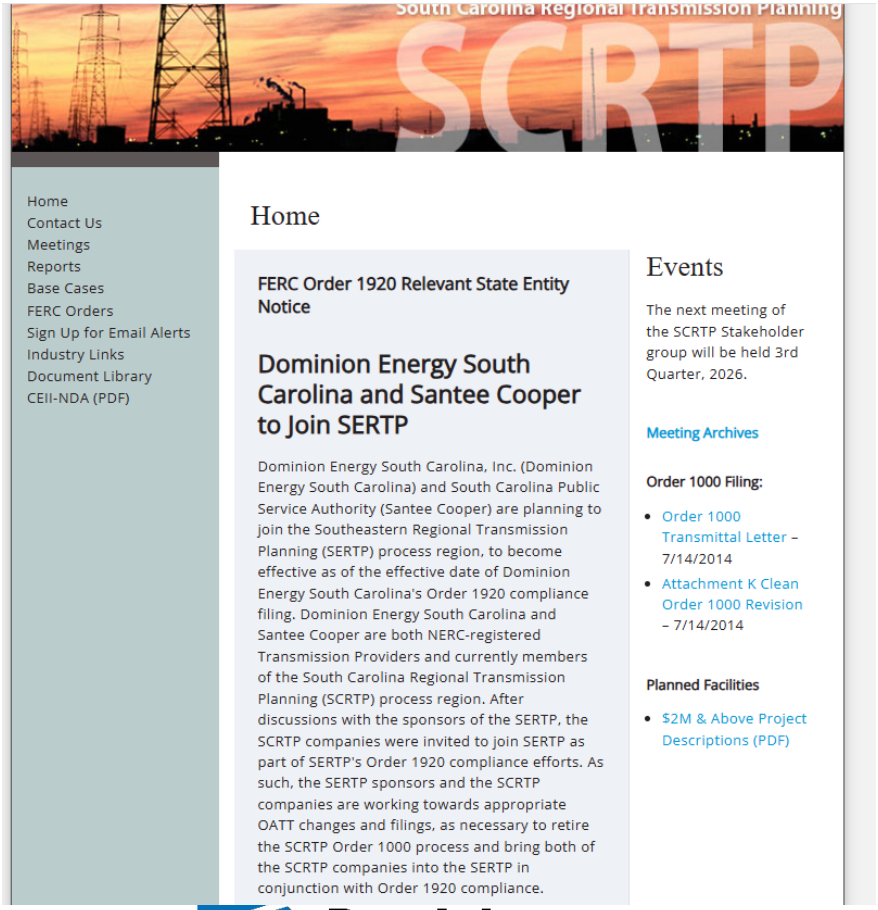
Dominion Energy®

santee cooper

SCRTP/SERTP Transition - Websites

[Home | South Carolina Regional Transmission Planning](https://www.scrtp.com/)

https://www.scrtp.com/



- ✓ Site will become "Read Only" after 12/31/26
- ✓ Case Data and Document Library will be archived and available by specific requests
- ✓ All coordination will be directed to SERTP site location:

Dominion Energy®

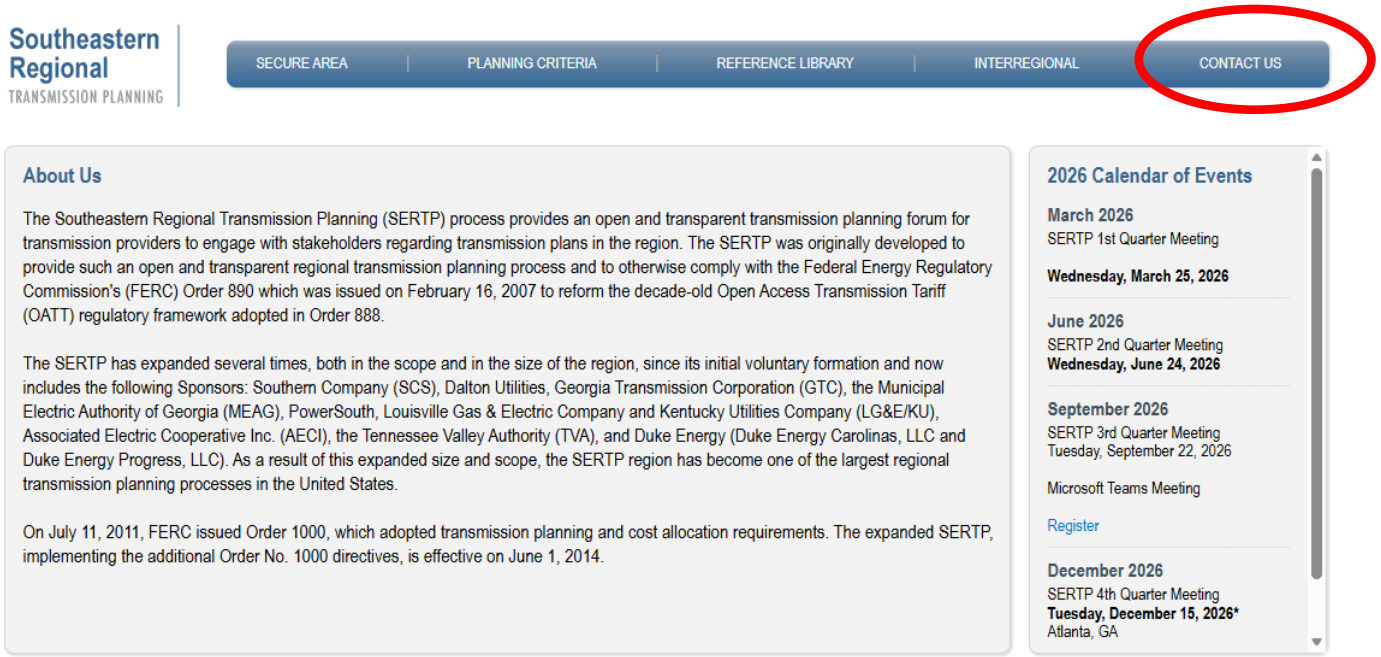
santee cooper

SCRTP/SERTP Transition - Websites

[Southeastern Regional Transmission Planning | Home | Southeastern Regional Tranmission Planning]

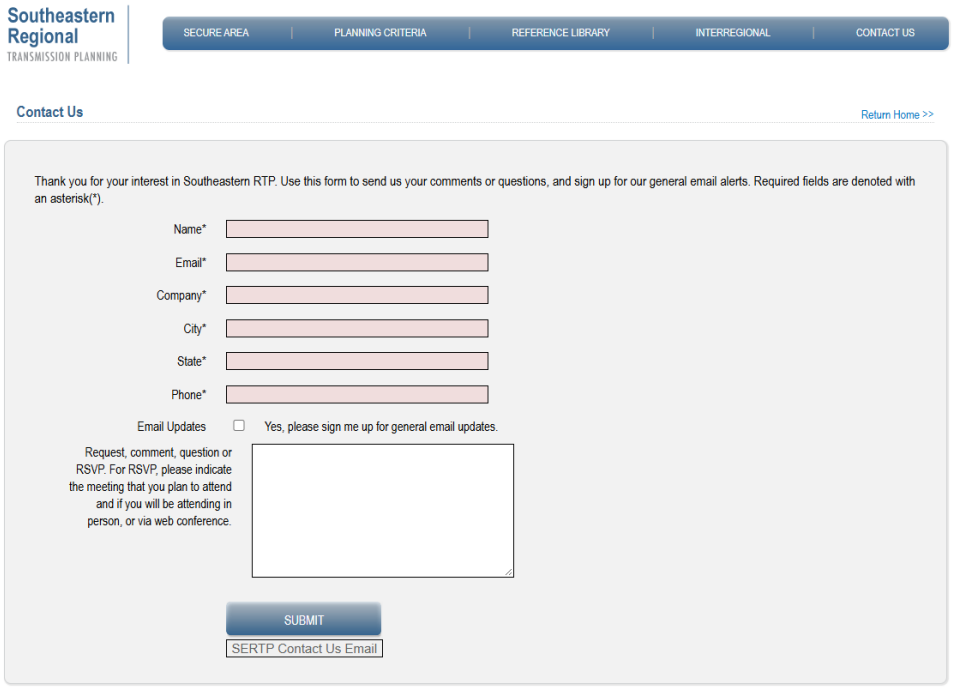
https://www.southeasternrtp.com/

****Stakeholder Responsibility****



SCRTP/SERTP Transition - Websites

SERTP - Contact Us | Contact Us | Southeastern Regional Tranmission Planning



****Stakeholder Responsibilities****

- ✓ SCRTP stakeholders must register with SERTP to receive future correspondence after 12/31/26
- ✓ **SCRTP CEII Holders will need to re-register with SERTP to obtain CEII materials**
  - ✓ **Applications can be submitted prior to cutover, and encouraged to avoid transition process delays**
  - ✓ Background checks will be required for **all new** CEII applicants in SERTP forum

Dominion Energy®

santee cooper



Questions

Dominion Energy®

santee cooper