Southeastern Regional Transmission Planning (SERTP)



Regional Transmission Plan & Input Assumptions Overview



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I. SERTP Overview

About the SERTP

The Southeastern Regional Transmission Planning (SERTP) is a collaboration of ten (10) transmission planning entities in a fourteen (14) state area that coordinates regional transmission planning activities and provides an open and transparent transmission planning forum to engage with stakeholders regarding transmission plans in the region. The SERTP region was initially developed by six (6) sponsors to provide an open and transparent regional transmission planning process and to otherwise comply with the Federal Energy Regulatory Commission's (FERC) Order 890, which was issued in 2007. The SERTP region expanded to its current size and scope due to the like-minded transmission planning philosophies of the current ten (10) collaborating SERTP sponsors. This commonality in transmission planning approaches has facilitated the SERTP region's implementation of FERC's Order 1000, issued in 2011, to establish regional and interregional transmission planning and cost allocation requirements. The SERTP region includes four (4) FERC jurisdictional investor-owned utilities and six (6) non-jurisdictional, non-profit public utilities, who have a longstanding history of collaboration in transmission planning activities and who have voluntarily elected to participate in the SERTP region. The expanded SERTP region, which became effective June 1, 2014, is one of the largest regional transmission planning regions in the United States.

The SERTP Regional Transmission Plan

The SERTP provides an open and transparent transmission planning process. The sponsors' transmission modeling, expansion plans, and other materials are publicly available and provide extensive data regarding the sponsors' transmission systems. Stakeholders can utilize this data to replicate the transmission planning performed through the SERTP as well as to assess a wide range of sensitivities and scenarios of interest.

This SERTP Regional Transmission Plan & Input Assumptions Overview document, which is produced annually, is intended to provide an overview of the 2014 cycle's regional modeling, key assumptions and philosophies, and expansion planning results suitable for any interested stakeholder, as it does not include Critical Energy Infrastructure Information (CEII) materials. Materials which include CEII are also available, subject to completion of the CEII request and

certification process. Additional information is available through the SERTP website (http://www.southeasternrtp.com/).

The SERTP Sponsors

1) Associated Electric Cooperative (AECI)

Associated Electric Cooperative Inc.

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AECI, a Generation and Transmission (G&T) rural electric cooperative, provides electric service across approximately 75,000 square miles in three states. Headquartered in Springfield, Missouri, AECI serves approximately 875,000 ultimate members through six regional G&Ts and 51 distribution cooperatives. AECI and its six regional G&Ts own over 9,800 miles of transmission lines operated at 69 through 500 kV.

2) Dalton Utilities (Dalton)



3) Duke Energy (Duke)



Dalton Utilities provides electric services in Dalton, Georgia and five surrounding counties. Headquartered in Dalton, Georgia, Dalton Utilities serves approximately 18,000 customers and owns over 300 miles of transmission lines.

Duke Energy provides electric service across 104,000 square miles in 6 states. Headquartered in Charlotte, NC, Duke Energy serves approximately 7.2 million customers and owns over 32,300 miles of transmission lines.

Two Duke Energy subsidiaries, Duke Energy Carolinas and Duke Energy Progress, are represented on the SERTP.

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4) Georgia Transmission Corporation (GTC)



GTC, an electric membership corporation formed in 1997 through a restructuring of Oglethorpe Power Corporation, provides electric service to 38 retail distribution cooperative members in Georgia. Headquartered in Tucker, Georgia, GTC owns approximately 3,100 miles of transmission lines and its members serve approximately 4 million people.

5) Louisville Gas & Electric and Kentucky Utilities (LG&E/KU)



LG&E/KU, an investor owned utility, provides electric service across 6,100 square miles in two states. Headquartered in Louisville, KY, LG&E/KU serves approximately 940,000 customers and owns over 2,721 miles of transmission lines.

6) Municipal Electric Authority of Georgia (MEAG)



MEAG, a public corporation and an instrumentality of the State of Georgia, provides electric service to 48 cities and one county in Georgia. Headquartered in Atlanta, Georgia, MEAG serves approximately 310,000 customers and owns over 1,320 miles of transmission lines.

7) Ohio Valley Electric Corporation (OVEC)



OVEC and Indiana-Kentucky Electric Corporation (IKEC), its wholly-owned subsidiary, is a generation and transmission company, providing its generation output to the 8 investorowned and cooperative entities who own exclusive rights to that generation. While serving no customers directly, OVEC-IKEC owns two generating stations and over 700 miles of transmission lines across three states. OVEC is headquartered in Piketon, Ohio.

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8) PowerSouth Electric Cooperative (PowerSouth)



PowerSouth, a generation and transmission cooperative consisting of 16 distribution cooperatives and 4 municipal systems, provides electric service across 31,000 square miles in 2 states. Headquartered in Andalusia, Alabama, PowerSouth serves approximately 418,000 customers and owns over 2,200 miles of transmission lines.

9) Southern Company (Southern)



Southern Company, which includes four retail operating companies, provides electric service across 120,000 square miles in four states. Headquartered in Atlanta, Georgia, Southern Company serves approximately 4,400,000 customers and owns over 27,000 miles of transmission lines.

10) Tennessee Valley Authority (TVA)



TVA, a federally-owned electrical utility, provides electric service across 80,000 square miles in 7 states. Headquartered in Knoxville, TN, TVA serves approximately 9 million customers and owns over 16,000 miles of transmission lines.

SERTP Region Scope

The SERTP region is located within 14 states, roughly spanning over 600 miles north to south and 1,100 miles east to west. The SERTP region is the largest transmission planning region in the Eastern Interconnect in terms of transmission line miles and is one of the largest based upon customer peak demand. The nine (9) NERC Balancing Authority Areas ("BAAs") in the SERTP region serve combined peak loads totaling more than 120,000 MWs.

	2	l l
No.	SERTP States	SERTP Sponsor
1	Alabama	PowerSouth, Southern, TVA
2	Florida	PowerSouth, Southern
3	Georgia	Dalton, GTC, MEAG, Southern, TVA
4	Indiana	OVEC
5	lowa	AECI
6	Kentucky	LG&E/KU, OVEC, TVA
7	Mississippi	Southern, TVA
8	Missouri	AECI
9	North Carolina	Duke, TVA
10	Ohio	OVEC
11	Oklahoma	AECI
12	South Carolina	Duke
13	Tennessee	TVA
14	Virginia	LG&E/KU, TVA

Table I.1: State by State Breakdown of SERTP Sponsors

II. SERTP Transmission Planning Approach

Physical Transmission Delivery Service Markets

The fundamental purpose of the transmission system is to enable transmission users the opportunity to access their desired generating resource options to reliably and economically deliver power to serve their customers' loads. In the SERTP region, physical transmission delivery service markets allow transmission customers to procure long-term transmission service across the transmission system and receive dependable, firm delivery from resources to customer loads. The SERTP sponsors plan and expand the transmission system to reliably and economically satisfy the load projections, resource assumptions, public policy requirements, and transmission service commitments within the region. These transmission system delivery capacity requirements are typically driven by long-term, firm commitments and are planned with the intent that those who have made such commitments will be able to access their resources to serve load without congestion, constraint, or curtailment. In other words, the SERTP sponsors identify, evaluate, and implement efficient and cost effective transmission expansion options to provide sufficient physical capacity to enable delivery of a long-term, firm transmission customer's service without impacting other long-term, firm delivery commitments, and with the intent that the service will normally be available without interruption or curtailment. The physical transmission delivery service markets in the SERTP region not only help to provide certainty in long-term delivery costs, but also minimize delivery risks for transmission users. The resulting planned physical transmission capacity provides for a robust, reliable, and resilient transmission system which responds well under a wide range of operating uncertainties and supports routine maintenance and construction activities.

Integrated Resource Planning and Transmission Planning Interaction

Although many long-term firm transmission delivery service commitments in the SERTP region are made by individual market participants, the majority are made by Load Serving Entities ("LSEs"). LSEs typically have a legal "duty to serve" obligation to reliably and proactively meet current and future load needs, and therefore procure energy, capacity, and transmission services to accomplish this objective. LSEs in the SERTP typically conduct Integrated Resource Planning ("IRP") processes on a reliable and least-cost basis to assess future load-serving needs, consider supply-side and

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demand-side options, and procure transmission delivery services. The IRP processes of LSEs, which are often state-regulated, consider a multitude of factors over a long-term horizon in their decisions to select resources and procure delivery services, including reliability, transmission impacts, economics, environmental attributes, economic growth, energy efficiency, resource diversity, applicable regulations, fuel delivery, ancillary services, and construction lead-times. Specifically, LSEs use IRP processes to set forth plans for providing and procuring the needed resource capacity at the lowest overall cost to consumers given all supply and demand side capacity options. The physical transmission delivery service markets in the SERTP region enable LSEs to base their decisions on long-term, total delivered costs without exposure to congestion pricing or significant delivery risks.

As LSEs make their resource decisions, these decisions and corresponding transmission service commitments are provided to the SERTP sponsors and form the basis for transmission planning assumptions in the SERTP region. Through their commitments for long-term, firm delivery service, LSEs communicate to the SERTP sponsors the set of resources their IRP processes have selected as best situated to serve their customers' long-term needs. This process significantly reduces uncertainties related to future resources and delivery needs, and provides sufficient lead times to enable transmission facilities to be planned and constructed.

The load forecasts, demand-side management programs, resource decisions, and corresponding firm transmission commitments resulting from the IRP activities of LSEs establish the majority of delivery obligations and modeling inputs for transmission planning in the SERTP region.

Customer Needs Lead to Continually Evolving Transmission Plans

Transmission planning in the SERTP region is focused on identifying reliable, cost-effective transmission projects to meet the long-term firm transmission delivery service obligations to transmission customers, and thereby assisting in serving their forecasted load obligations from their desired resource choices. Simply put, transmission plans are driven by customer transmission delivery service needs, and these needs can be constantly changing. Each year, load forecasts change, resource decisions change, and, as a result, transmission delivery service needs change. On a recurring basis, LSEs and other transmission customers communicate their delivery needs, which the SERTP sponsors incorporate into the latest transmission planning models and analyses. Planned

Southeastern Regional

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transmission projects are reassessed to ensure that the proper scope and timing of the projects have been identified. Transmission projects are timed to coincide with delivery service needs; early enough to ensure physical capacity is in place to meet delivery commitments, but not so early as to incur significant carrying costs or limit flexibility if delivery needs change. Each year, planned transmission projects are often re-timed and, in some cases, eliminated.

Although the results of these planning efforts culminate annually into a regional transmission plan document, the regional transmission plan is continually re-evaluated as on-going changes in firm delivery service obligations, forecasted conditions, and identified-project alternatives arise. Therefore, the regional transmission plan is updated and improved upon on a recurring basis, often resulting in the identification of new cost-effective transmission project options, timing changes to existing transmission projects, and the potential removal of some transmission projects from the ten year plan. This planning approach provides a seamless interaction with IRP processes such that as IRP decisions are made, the expected transmission impacts considered in those IRP decisions become reflected in the regional transmission plan, unless other, more cost-effective, reliable solutions have been identified for the then-current forecasted conditions. Similarly, the decisions of other types of market participants to procure long-term, firm transmission delivery service in the SERTP region are incorporated in the development of the regional transmission plan as well. These constantly-changing customer needs drive a constantly-changing regional transmission plan.

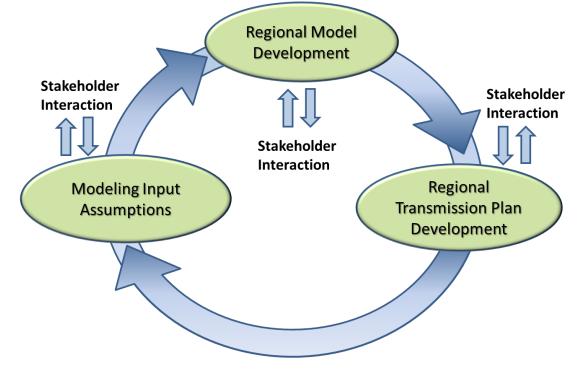
The SERTP develops a regional plan each year, but the plan is a "snapshot", solely intended to reflect the then-current transmission plan based upon then-current forecasted assumptions and transmission delivery service needs. Transmission planning is a very iterative process, with delivery needs and associated projects constantly evolving. From the start, transmission planning in the SERTP region reflects a high degree of coordination and joint modeling between neighboring systems. If reliability constraints are identified, the SERTP sponsors work to identify cost-effective, reliable transmission projects, not only on their respective transmission systems, but also considering potential transmission projects across two or more transmission systems. Transmission plans are shared with SERTP stakeholders at regular intervals during the year and the frequent engagement with stakeholders allows for additional inputs into potential project alternatives.





Diagram II.1 below illustrates the iterative nature of the SERTP process and the development of the regional transmission plan.





Transmission Planning for Public Policy Requirements

In planning, constructing, operating, and maintaining the transmission system, the responsible transmission entities must meet all local, state, and federal laws/regulations applicable within their respective jurisdictions. These laws and regulations are referred to as public policy requirements ("PPRs"). The SERTP Sponsors strive to (and are required by law) to meet all PPRs applicable to planning the transmission system. Although PPRs applicable to transmission planning vary by jurisdiction, some common examples of PPRs involving transmission planning include complying with applicable State Public Service Commission requirements, complying with Nuclear Regulatory Commission requirements related to offsite power, and planning consistent with applicable North American Electric Reliability Corporation ("NERC") Reliability Standards.

Although PPRs related to generating resource decisions are typically applicable to LSEs, these too can impact the development of the transmission plan. By offering physical transmission services, SERTP sponsors help facilitate applicable entities, such as LSEs, in meeting their PPR obligations

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related to resource decisions. As an example, let's assume a state-enacted PPR requires LSEs within the state to add additional renewable resources to their generation mixes. An LSE, through its IRP analyses and processes, may determine that its most appropriate resource selection is to import renewable generation from a neighboring area. Alternatively, the LSE may determine that its most appropriate option is to interconnect new renewable generation locally. In either case, the LSE can provide its resource selection decisions through long-term, delivery service commitments to the SERTP sponsors, so that the SERTP sponsors can incorporate these input assumptions into the transmission expansion planning process to accommodate the delivery of the resource selections.

SERTP Regional Planning Process Timeline

As discussed earlier, the SERTP planning process is an iterative process that continually re-evaluates the regional transmission plan based upon changes in actual and forecasted conditions. Often forecasted conditions can change, driven by inputs from native load and wholesale transmission customers such as their load-serving obligations and resource assumptions.

In light of these on-going changes, in a given planning cycle, transmission projects that may be included in the then-current regional plan are re-assessed by the SERTP Sponsors, each applying its respective planning criteria, to determine: 1) if a given project continues to be needed, 2) if the timing of the projects should be adjusted, and 3) if potential alternatives exist that may be more reliable and cost-effective to address the underlying transmission capacity requirements.

Diagrams II.2 and II.3 below illustrate the approximate timing and objectives of the SERTP process.

Diagram II.2: SERTP Process – Quarters 1 & 2

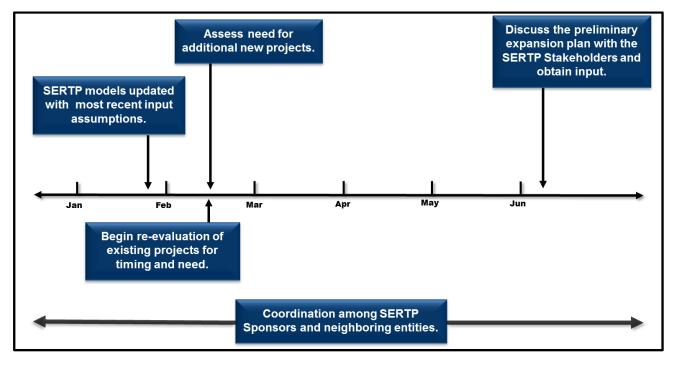
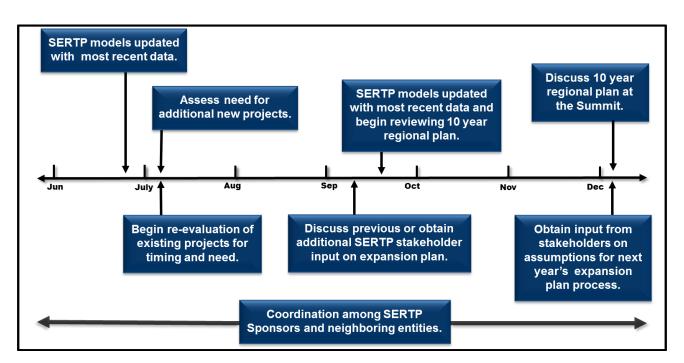


Diagram II.3: SERTP Process – Quarters 3 & 4



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The SERTP Region – A Robust, Reliable, Resilient Transmission System

The SERTP Sponsors' transmission planning approach has resulted in a robust transmission system intended to enable both native load and wholesale customers the right to use the underlying physical transmission capacity in the system associated with their long-term, firm transmission commitments without congestion or constraint. In fact, the SERTP region is the largest transmission planning region in the Eastern Interconnect in terms of transmission line miles with over 90,000 line miles.

The 2014 regional transmission plan includes forecasted transmission projects to continue to reliably and cost-effectively provide for the transmission needs of the SERTP region. The planned physical transmission capacity provides for a continued robust, reliable, and resilient transmission system which responds well under a wide range of operating uncertainties and supports routine maintenance and construction activities.

Tables II.1 and II.2 below depict a snapshot of the major transmission expansion project types included in the regional transmission plan throughout the ten year planning horizon.

SERTP	Total
Transmission lines – New (Circuit Mi.)	876
Transmission Lines – Uprates ¹ (Circuit Mi.)	1120
Transformers ² – New	28
Transformers ² – Replacements	15

Table II.1 2014 SERTP Regional Transmission Plan – Transmission Project Snapshot

 1 A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line. 2 The voltages shown represent the operating voltages on the high side terminals of the transformer

Tuble 11.2 2014 SENTE Regional Transmission Flan – Transmission Floject Shapshot by operating voltage						
SERTP	100-120	121-150	151-199	200-299	300-399	400-550
	kV	kV	kV	kV	kV	kV
Transmission lines – New	213	1	172	385		105
(Circuit Mi.)	215	Ŧ	172	505		105
Transmission Lines – Uprates ¹	701	16	228	176		
(Circuit Mi.)	/01	10	220	170		
Transformers ² – New	1		2	19		6
Transformers ² – Replacements			1	14		

Table II.2 2014 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage

¹A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line. ²The voltages shown represent the operating voltages on the high side terminals of the transformer

III. SERTP Regional Modeling

Regional Model Development

The SERTP annually develops regional powerflow models, which include the coordinated inputs and assumptions needed to support on-going regional transmission planning analyses. These models, which are available to SERTP stakeholders via the <u>secure area</u> of the SERTP website, are utilized by SERTP sponsors to perform regional transmission planning analyses and are also well suited to support SERTP stakeholders in conducting a wide range of scenarios and sensitivities that may be of interest. Table III.1 below provides a list of the 2014 series set of SERTP powerflow models. Additional models may be developed on an "ad hoc" basis based upon the requirements of the then-current planning cycle.

No.	Season	Year	MMWG Starting Point Case
1		2015	2015S
2		2017	2015S
3	Summer	2019	2019S
4	Summer	2020	2019S
5		2022	2019S
6		2024	2024S
7	Shoulder	2019	2019S
8		2022	20195
9		2024	2024S
10	Winter	2019	2019-20W
11		2024	2019-20W
12	Light Load	2015	2014LL

Table III.1: 2014 Series set of SERTP Powerflow Models

The SERTP regional powerflow models provide modeling representations of the existing transmission topology plus forecasted topology changes throughout the ten year planning horizon. In addition, these models incorporate the input assumptions provided by LSEs and other transmission customers for use in planning the transmission system.

The powerflow models provide a comprehensive representation of the actual and forecasted transmission system so that simulations of the transmission system's ability to reliably accommodate

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firm delivery service commitments can be performed. The SERTP conducts interactive stakeholder training on modeling and analysis techniques each year intended to help stakeholders better understand and utilize the abundance of information provided in these materials. More information on previous training presentations can be found on the SERTP website.

In the models, transmission lines, transformers, and substations are modeled as branches and nodes (buses). In general, radial transmission facilities only serving load with one source are typically not considered Bulk Electric System (BES) facilities and therefore, are not explicitly modeled. Diagram III.1 depicts a simple example of how an explicit substation representation might be reflected in the powerflow models.

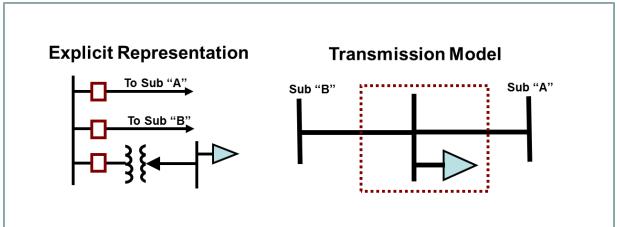


Diagram III.1: SERTP Powerflow Model Substation Representation – Simple Example

The regional powerflow models are considered and marked as Critical Energy Infrastructure Information (CEII). The Federal Energy Regulatory Commission defines CEII as being specific engineering, vulnerability, or detailed design information about proposed or existing critical infrastructure (physical or virtual) that:

- 1) Relates details about the production, generation, transmission, or distribution of energy;
- 2) Could be useful to a person planning an attack on the critical infrastructure;
- 3) Is exempt from mandatory disclosure under the Freedom of Information Act; and
- 4) Does not simply give the general location of the critical infrastructure.

The SERTP models and other CEII materials are available to SERTP stakeholders, but are kept in the <u>secure area</u> of the SERTP website for the reasons discussed above. The process by which a stakeholder can obtain access to CEII can be found on the <u>SERTP website</u>.

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Regional Modeling Input Assumptions

Vast amounts of data and information, such as the SERTP regional models, are available to all SERTP stakeholders, but are generally more geared towards an engineering audience. Therefore, the summaries below are intended to provide an overview of the modeling assumptions.

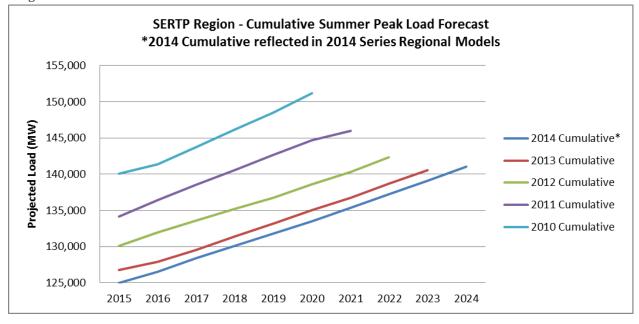
Section III and Appendices 1-9 include detailed information on the input assumptions reflected in the regional powerflow models and considered in the transmission planning process. The data shown is representative of the input assumptions provided by LSEs and other transmission customers for specific use in planning the transmission system during the 2014 planning cycle.

Load Forecasts

LSEs, who are responsible for identifying and securing the firm transmission delivery services necessary to meet their current and forecasted load serving requirements, annually supply the SERTP sponsors with revised load forecasts. The SERTP Sponsors incorporate the latest load forecasts from each LSE into the latest series of SERTP powerflow models. Diagram III.2 provides cumulative load forecast trends by year for the SERTP region for each of the last five years. As shown in the diagram, the 2014 series SERTP powerflow models reflect a reduced peak load forecast as compared to previous years' load forecasts.

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Diagram III.2: Cumulative SERTP Load Forecast



The SERTP powerflow models provide more detailed information on the forecasted load. The 2014 series SERTP powerflow models are made available through the <u>secure area</u> of the SERTP website.

Energy Efficiency and Demand Side Management

The load forecasts provided by LSEs often reflect reduced load serving requirements for particular loads based upon energy efficiency ("EE") and demand side management ("DSM") options. Such options are developed as part of LSEs' IRP processes on a state-by-state and program-by-program basis and therefore can vary in structure and operational characteristics.

The transmission planning process in the SERTP necessarily plans for each LSE's loads consistent with their desired treatment of such loads. While each LSE may treat their load forecasting process and assumptions differently, the following describes the typical treatment of energy efficiency and demand side resources.

LSEs proactively seek out DSM options that are economical and of interest to customers. In many cases, such DSM options are setup and implemented under the purview of state-approved programs, and therefore the LSE treats the DSM options in its load forecasting process consistent with the parameters of such programs. Energy efficiency and non-dispatchable (passive) demand



side resources are typically treated as load-modifying and are reflected in a reduced load forecast provided by the LSEs and incorporated in the SERTP transmission planning models. Dispatchable (active) demand side resources or real-time pricing resources are accounted for and considered as part of the resource decisions that are provided by each LSE. LSEs often do not treat these demand side resources as load-modifying when supplying load forecast assumptions into the SERTP process because of a multitude of factors, including:

- A significant number of exposure hours can greatly exceed the amount of hours a DSM resource may be available
- Relying upon active DSM to address transmission constraints can lead to response fatigue from customers and potential withdrawal from DSM programs
- The operational characteristics of active DSM resources may be insufficient to address transient transmission needs

Generating Resources

The 2014 series SERTP powerflow databases available on the secure area of the SERTP website contain information on each of the generating resources connected within the SERTP region as well as those that are planned to be connected within the ten year planning horizon. Detailed tabular reports on such information can be run on the powerflow databases utilizing PSS/E software.

LSEs and market participants routinely make changes in their generation resource assumptions and associated transmission delivery service commitments. These changes can have many different drivers, including the selection of new resources, the retirement of generation, and the expiration of purchase power agreements. The SERTP sponsors reflect the latest generation resource assumptions, as provided by LSEs, in the then-current modeling and transmission planning analyses. Appendices 1 through 9 depict changes in the generation resource assumptions that occur in the ten (10) year transmission planning cycle, including the year(s) in which they occur for each BAA in the SERTP region. Several of the changes in the generation resource assumptions represent capacity sourced from assumed generation expansion within the SERTP region. Diagram III.3 provides a breakdown, by resource type, of these generation expansion assumptions within the SERTP region.

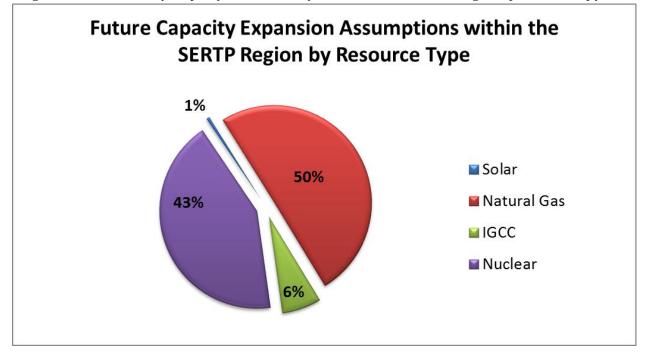


Diagram III.3: Future Capacity Expansion Assumptions within the SERTP Region by Resource Type

Generation assumptions within the SERTP region can also stem from long-term, firm point-to-point transmission service commitments. Additional information on long-term firm transmission service commitments considered in the 2014 SERTP process is available in Appendices 1 through 9 as well as on each SERTP Sponsor's respective OASIS site.

Interface Commitments

In addition to the firm transmission delivery service commitments made by LSEs that source and sink within their NERC BAA, firm transmission delivery service commitments may exist that source and/or sink across two NERC BAAs. These commitments are called interface commitments.

While interface commitments can stem from a number of drivers, many of these commitments are the result of LSEs opting to procure transmission capacity to receive deliveries from off-system resources to serve their loads. Other market participants may also utilize long-term, firm transmission delivery service to obtain delivery priority to access either committed or potential customers in other BAAs. The interfaces are also planned to maintain reliability margins to address uncertainties which may arise in real-time operations. Two types of reliability margins are 1)



Transmission Reliability Margin ("TRM"), which is capacity preserved to provide reasonable assurance that the interconnected transmission network will be secure under the inherent uncertainty in real-time system conditions and 2) Capacity Benefit Margin ("CBM"), which is capacity preserved to enable LSEs access to generation from other interconnected systems to meet generation reliability requirements should times of emergency generation deficiencies arise.

Each SERTP Sponsor plans the transmission system to accommodate all of its long-term firm interface commitments including reliability margins. This planning, along with planning for other long-term firm commitments, has resulted in a highly integrated and robust network of ties within the SERTP region.

Appendices 1 through 9 provide detail on the interface commitments modeled in the 2014 series SERTP regional powerflow models. Additional information on the long-term firm transmission service interface commitments considered in the 2014 SERTP process is available on each SERTP Sponsor's respective OASIS sites.

IV. SERTP Regional Transmission Plan Summary

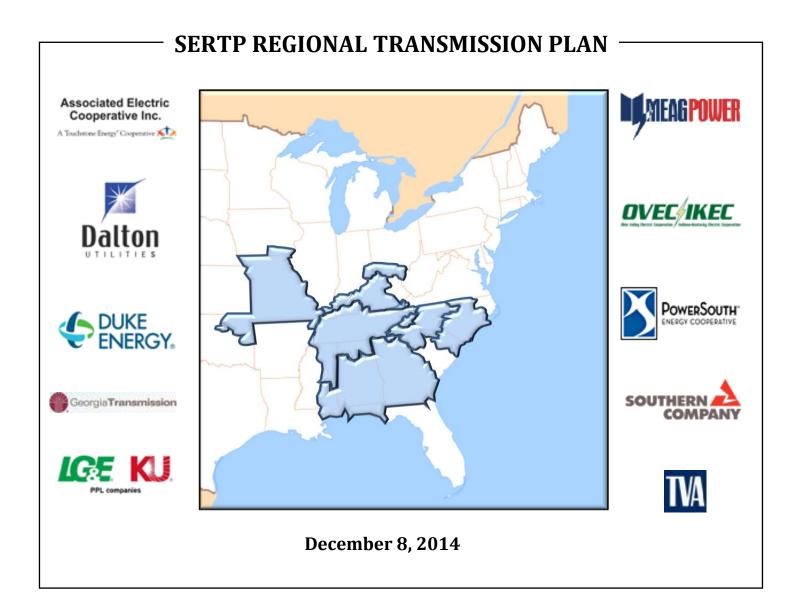
Regional Plan Summary

The regional transmission plan represents the culmination of each year's planning cycle assessment, providing a "snapshot" of the transmission capacity requirements to safely, reliably, and economically serve the load within the SERTP region based upon the current resource assumptions of LSEs and other transmission customers. As described in Sections II & III, the regional transmission plan is continually assessed and may be revised based upon changes to these input assumptions.

The 2014 SERTP regional transmission plan, found in its entirety in Section V, consists of over 240 transmission projects, totaling an estimated \$3 billion dollars, including: over 875 miles of new transmission lines, over 1,100 miles of transmission line uprates (including upgrades, reconductors, and rebuilds), and over 40 transformer additions and/or replacements. This planned physical transmission capacity provides for a continued robust, reliable, and resilient transmission system that responds well under a wide range of operating uncertainties and supports routine maintenance and construction activities. Tables II.1 and II.2 in Section II provide additional cumulative breakdowns on the regional transmission plan, while Appendices 1 through 9 depict tabular breakdowns for each BAA.



V. The SERTP Regional Transmission Plan





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AECI Balancing Authority Transmission Projects25
DUKE CAROLINAS Balancing Authority Transmission Projects
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DUKE PROGRESS WEST Balancing Authority Transmission Projects
LG&E/KU Balancing Authority Transmission Projects
POWERSOUTH Balancing Authority Transmission Projects
SOUTHERN Balancing Authority Transmission Projects
TVA Balancing Authority Transmission Projects

¹ The projects described in this document represent the current regional transmission plan. This plan, along with the transmission projects included within it, is periodically reviewed and may be revised due to changes in assumptions. This document does not represent a commitment to build for projects listed in the future.

SERTP TRANSMISSION PROJECTS AECI Balancing Authority

In-Service Year:	2015
Project Name:	AVENUE CITY 161 KV SUBSTATION
Description:	Construct a new Avenue City substation connecting to KCPL's St. Joe – Midway 161 kV transmission line.
Supporting Statement:	Serve new load on system.
In-Service Year:	2015
Project Name:	LOST VALLEY – TURKEY CREEK 161 KV T.L.
Description:	Construct approximately 7 miles of 161 kV transmission line from Lost Valley to Turkey Creek with 795 ACSR at 100°C and install an 84 MVA 161/69 kV transformer at Turkey Creek on the Warsaw – Knobby 69 kV transmission line.
Supporting Statement:	The Greenview – J-7 69 kV transmission line overloads under contingency. Also, 69 kV voltage support needed in the Iconium area under contingency.
In-Service Year:	2015
	2015 REMINGTON – RALSTON BEND 138 KV T.L.
Year:	
Year: Project Name:	REMINGTON – RALSTON BEND 138 KV T.L. Construct approximately 20 miles of 138 kV transmission line from Remington – Ralston
Year: Project Name: Description: Supporting	REMINGTON – RALSTON BEND 138 KV T.L. Construct approximately 20 miles of 138 kV transmission line from Remington – Ralston Bend with 795 ACSR at 100°C.
Year: Project Name: Description: Supporting Statement: In-Service	REMINGTON – RALSTON BEND 138 KV T.L. Construct approximately 20 miles of 138 kV transmission line from Remington – Ralston Bend with 795 ACSR at 100°C. Additional capacity required for Distribution Cooperative to accommodate load growth.
Year: Project Name: Description: Supporting Statement: In-Service Year:	REMINGTON – RALSTON BEND 138 KV T.L. Construct approximately 20 miles of 138 kV transmission line from Remington – Ralston Bend with 795 ACSR at 100°C. Additional capacity required for Distribution Cooperative to accommodate load growth. 2015

In-Service Year:	2015
Project Name:	MCGUIRE – RIVERBEND 230 KV T.L.
Description:	Reconductor approximately 6 miles of the McGuire – Riverbend 230 kV transmission line with 1533 ACSS at 200°C.
Supporting Statement:	The McGuire – Riverbend 230 kV transmission line overloads under contingency.
In-Service Year:	2016
Project Name:	CENTRAL 230/100 KV SUBSTATION
Description:	Replace transformer #1 with 448 MVA 230/100 kV transformer at Central substation.
Supporting Statement:	The Central 230/100 kV transformer overloads under contingency.
In-Service Year:	2016
Project Name:	ELIZABETH – NORTH CHARLOTTE 100 KV T.L.
Description:	Reconductor approximately 5 miles of the Elizabeth – North Charlotte 100 kV transmission line with 477 ACSS at 200°C.
Supporting Statement:	The Elizabeth – North Charlotte 100 kV transmission line overloads under contingency.
In-Service Year:	2016
Project Name:	NEWPORT – WYLIE 100 KV T.L.
Description:	Reconductor approximately 8 miles of the Newport – Wylie 100 kV transmission line with 1158 ACSS at 120°C.
Supporting Statement:	The Newport – Wylie 100 kV transmission line overloads under contingency.
In-Service Year:	2016
Project Name:	PARKWOOD 230/100 KV SUBSTATION
Description:	Add a third 448 MVA 230/100 kV transformer at Parkwood substation.
Supporting Statement:	The Parkwood 230/100 kV transformer overloads under contingency.

In-Service Year:	2017
Project Name:	ASHE STREET – PARKWOOD 100 KV T.L.
Description:	Reconductor approximately 2.6 miles of the Ashe Street – Parkwood 100 kV transmission line with 477 ACSR at 120°C.
Supporting Statement:	The Ashe Street – Parkwood 100 kV transmission line overloads under contingency.
In-Service Year:	2017
Project Name:	GREENBRIAR AREA IMPROVEMENTS
Description:	Bundle the Shady Grove – Moonville Retail 100 kV transmission line with 477 ACSR at 120°C. Add 100 kV terminals at Greenbriar Retail making it a 100 kV switching station. Reedy River Tie will also become a breaker swap over station as part of the Greenbriar project.
Supporting Statement:	Project required to support new Lee CC project and contingency overloading of 100 kV lines in Lee area.
In-Service Year:	2017
Project Name:	NORTH GREENVILLE – TIGER 100 KV T.L.
Description:	Rebuild approximately 11 miles of the North Greenville – Tiger 100 kV transmission line with 954 ACSR at 120°C.
Supporting Statement:	The North Greenville – Tiger 100 kV transmission line overloads under contingency.
In-Service Year:	2017
Project Name:	RIVERBEND STEAM STATION
Description:	Add two 230/100 kV 400 MVA transformers at Riverbend Steam Station.
Supporting Statement:	Retirement of Riverbend Steam Station generation causes multiple transmission lines to overload under contingency and causes the need for additional voltage support in the Riverbend area.

In-Service Year:	2017
Project Name:	TIGER – WEST SPARTANBURG 100 KV T.L.
Description:	Reconductor approximately 5 miles of the Tiger – West Spartanburg 100 kV transmission line with 556 ACSR at 120°C.
Supporting Statement:	The Tiger – West Spartanburg 100 kV transmission line overloads under contingency.
In-Service Year:	2017
Project Name:	WINECOFF 230/100 KV SUBSTATION
Description:	Replace transformer #1 with 448 MVA 230/100 kV transformer at Winecoff substation.
Supporting Statement:	The Winecoff 230/100 kV transformer overloads under contingency.
In-Service Year:	2018
Project Name:	CONCORD MAIN – HARRISBURG 100 KV T.L.
Description:	Reconductor approximately 1 mile of the Concord Main – Harrisburg 100 kV transmission line with bundled 556 ACSR at 120°C.
Supporting Statement:	The Concord Main – Harrisburg 100 kV transmission line overloads with a generation outage.
In-Service Year:	2018
Project Name:	LINCOLN CT – RIVERBEND 230 KV T.L.
Description:	Replace switches at Riverbend Steam Station with 2000 A equipment.
Supporting Statement:	The Lincoln CT – Riverbend 230 kV transmission line overloads with a generation outage.
In-Service Year:	2018
Project Name:	PEACH VALLEY – RIVERVIEW 230 KV T.L.
Description:	Install a 3% series reactor on the Peach Valley – Riverview 230 kV transmission line.
Supporting Statement:	The Peach Valley – Riverview 230 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	MONROE – LANCASTER 100 KV T.L.
Description:	Rebuild approximately 20 miles of the Monroe – Lancaster 100 kV transmission line with 954 ACSR at 120°C.
Supporting Statement:	The Monroe – Lancaster 200 kV transmission line overloads on generation outage.
In-Service Year:	2019
Project Name:	RURAL HALL SUBSTATION
Description:	Upgrade ancillary equipment and replace tie breaker at Rural Hall with a 2000 A breaker.
Supporting Statement:	The Rural Hall substation bus/breaker overloads under contingency.
In-Service Year:	2020
Project Name:	CLIFFSIDE STEAM STATION
Description:	Add a third 448 MVA 230/100 kV transformer at Cliffside Steam Station.
Supporting Statement:	Cliffside Steam Station 230/100 kV transformer overloads under contingency.
In-Service Year:	2021
Project Name:	PLEASANT GARDEN 500/230 KV SUBSTATION
Description:	Replace CTs and aluminum buswork on the Pleasant Garden 500/230 kV transformer.
Supporting Statement:	The Pleasant Garden 500/230 kV transformer overloads under contingency.
In-Service Year:	2021
Project Name:	WALNUT COVE – RURAL HALL 100 KV T.L.
Description:	Split approximately 10 miles of the bundled six wire Walnut Cove – Rural Hall 100 kV transmission line circuit into two circuits.
Supporting Statement:	The Walnut Cove – Rural Hall 100 kV transmission line overloads under contingency.

	In-Service Year:	2022
Pr	oject Name:	CENTRAL – SHADY GROVE 230 KV T.L.
	Description:	Reconductor approximately 18 miles of the Central – Shady Grove 230 kV transmission line with bundled 954 ACSR at 120°C.
	Supporting Statement:	The Central – Shady Grove 230 kV transmission line overloads under contingency.
	In-Service Year:	2022
Pi	oject Name:	STAMEY – STATESVILLE 100 KV T.L.
	Description:	Reconductor approximately 8 miles of the Stamey – Statesville 100 kV transmission line to 795 ACSR and 954 ACSR at 120°C.
	Supporting Statement:	The Stamey – Statesville 100 kV transmssion line overloads under contingency.
	In-Service Year:	2022
Pi	oject Name:	WOODLAWN – AMITY 100 KV T.L.
	Description:	Replace ancillary equipment on the Woodlawn – Amity 100 kV transmission line with 3000 A equipment.
	Supporting Statement:	The Woodlawn – Amity 100 kV transmission line overloads under contingency.

In-Service Year:		2015	
Project Name:		FAYETTEVILLE – FAYETTEVILLE EAST 230 KV T.L.	
Description:		Replace two 1600 A switches with two switches of at least 2000 A capability at the Fayetteville East 230 kV Switching Station, on the Fayetteville – Fayetteville East 230 kV transmission line. Replace the 1600 A line trap and breaker with equipment of at least 2000 A capability at Fayetteville.	
	pporting atement:	The Fayetteville – Fayetteville East 230 kV transmission line overloads under contingency.	
Ir	-Service Year:	2016	
Proje	ct Name:	ASHEBORO – ASHEBORO EAST (SOUTH) 115 KV T.L.	
Des	scription:	Reconductor approximately 3 miles of the Asheboro – Asheboro East (South) 115 kV transmission line using 3-1590 or equivalent conductor. Replace disconnect switches at Asheboro 230 kV and both the breaker and the disconnect switches at Asheboro East 115 kV with equipment of at least 2000 A capability.	
	pporting atement:	The Asheboro – Asheboro East (South) 115 kV transmission line overloads under contingency.	
Ir	-Service Year:	2016	
Proje	ct Name:	FALLS 230 KV SUBSTATION	
Des	scription:	Install a 200 (or 300) MVA 230/115 kV transformer at Falls 230 kV substation. This project requires the creation of a 2nd 230 kV bus, the installation of a 230 kV bus tie breaker, and the relocation of the Roxboro Plant 230 kV breaker. This project also requires the creation of a new 115 kV bus, the installation of a new 115 kV bus tie breaker, and the retermination of the Chestnut Hills and Franklinton East 115 kV transmission lines to the new 115 kV bus.	
	pporting atement:	The Falls 230/115 kV transformer overloads under contingency.	

In-Service Year:	2016
Project Name:	FT. BRAGG WOODRUFF STREET 230 KV SUBSTATION
Description:	Replace the existing 150 MVA, 230/115 kV transformer at the Ft. Bragg Woodruff Street 230 kV substation with two 300 MVA, 230/115 kV transformers. Reconductor approximately 4.42 miles along the Ft. Bragg Woodruff Street – Manchester 115 kV transmission line with 3-1590 ACSR.
Supporting Statement:	The Manchester 115 kV transmission line and Ft. Bragg Woodruff Street 230/115 kV transformer overloads under contingency.
In-Service Year:	2016
Project Name:	JACKSONVILLE 230 KV SUBSTATION
Description:	Install one 72 MVAR capacitor bank at Jacksonville 230 kV substation.
Supporting Statement:	Voltage support is needed in the Jacksonville area under contingency.
In-Service Year:	2016
Project Name:	SELMA 230 KV SUBSTATION
Description:	Replace the existing 200 MVA, 230/115 kV transformer at the Selma 230 kV substation with a 300 MVA, 230/115 kV transformer.
Supporting Statement:	The Selma 230/115 kV transformer overloads under contingency.
In-Service Year:	2018
Project Name:	RAEFORD 230 KV SUBSTATION
Description:	Loop in the Richmond – Ft. Bragg Woodruff St. 230 kV transmission line at Raeford 230/115 kV substation and add a 300 MVA transformer.
Supporting Statement:	The Raeford 230/115 kV transformers and Weatherspoon – Raeford 115 kV transformers and Weatherspoon – Raeford 115 kV transmission line overload under contingency.

In-Service Year:	2019	
Project Name:	ASHEBORO – ASHEBORO EAST (NORTH) 115 KV T.L.	
Description:	Rebuild approximately 6.45 miles of the Asheboro – Asheboro East (North) 115 kV transmission line using 3-1590 or equivalent conductor. Replace disconnect switches at Asheboro 230 kV and both the breaker and the disconnect switches at Asheboro East 115 kV with equipment of at least 2000 A capability.	
Supporting Statement:	The Asheboro – Asheboro East (North) 115 kV transmission line overloads under contingency.	
In-Service Year:	2020	
Project Name:	JACKSONVILLE – HARMON AREA 230 KV T.L.	
Description:	Construct approximately 12 miles of new 230 kV transmission line from Jacksonville 230 kV to a new 230 kV substation in the Harmon area with bundled 6-1590 ACSR or equivalent. Build the new 230 kV Harmon substation with four 230 kV breakers and a new 200 (or 300) MVA 230/115 kV transformer.	
Supporting Statement:	The Havelock – Jacksonville 230 kV transmission line overloads under contingency and voltage support is needed in the Jacksonville area.	
In-Service Year:	2020	
Project Name:	NEWPORT AREA – HARLOWE 230 KV T.L.	
Description:	Construct a new 230 kV switching station in the Newport Area, construct a new 230 kV substation in the Harlowe Area, and construct approximately 10 miles of new 230 kV transmission line from the Newport Area – Harlowe Area with 3-1590 ACSR or equivalent.	
Supporting Statement:	Voltage support is needed in Havelock – Morehead area.	
In-Service Year:	2020	
Project Name:	PROSPECT 230 KV CAPACITOR STATION	
Project Name: Description:		

In-Service Year:	2020
Project Name:	SMITHFIELD 115 KV CAPACITOR STATION
Description:	Construct a new capacitor bank station near Smithfield 115 kV substation and install one 18 MVAR capacitor bank at Smithfield 115 kV Substation with expansion potential up to 33 MVAR.
Supporting Statement:	Voltage support is needed in Smithfield area.
In-Service Year:	2021
Project Name:	LOUISBURG AREA 115 KV CAPACITOR STATION
Description:	Construct a capacitor bank station near Louisburg 115 kV substation and install one 18 MVAR capacitor bank at Smithfield 115 kV substation with expansion potential up to 33 MVAR.
Supporting Statement:	Voltage support is needed in Louisburg area.
In-Service Year:	2023
Project Name:	DURHAM – RTP 230 KV T.L.
Description:	Reconductor approximately 10 miles of the Durham – RTP 230 kV transmission line with bundled 6-1590 ACSR.
Supporting Statement:	The Durham – RTP 230 kV transmission line overloads under contingency.

In-Service Year:	2016
Project Name:	CRAGGY – ENKA 115 KV T.L.
Description:	Upgrade the Craggy – Enka 115 kV transmission line between Enka 115 kV substation and Monte Vista 115 kV substation. Replace two 115 kV switches and limiting CT equipment at Enka 115 kV substation.
Supporting Statement:	The Craggy – Enka 115 KV transmission line overloads under contingency.
In-Service Year:	2018
Project Name:	ASHEVILLE PLANT SUBSTATION
Description:	Replace the 230 kV breakers at Asheville substation with 3000 A minimum breakers to accommodate the installation of combustion turbine units at Asheville S.E. Plant.
Supporting Statement:	Asheville Plant Switchyard modifications are required to accommodate generation.
In Convice	
In-Service Year:	2018
	2018 VANDERBILT – W. ASHEVILLE 115 KV T.L.
Year:	
Year: Project Name:	VANDERBILT – W. ASHEVILLE 115 KV T.L. Reconductor approximately 2.69 miles of the Vanderbilt – W. Asheville 115 kV transmission line with 3-795 or equivalent. Replace one 115 kV breaker, two 115 kV
Year: Project Name: Description: Supporting	VANDERBILT – W. ASHEVILLE 115 KV T.L. Reconductor approximately 2.69 miles of the Vanderbilt – W. Asheville 115 kV transmission line with 3-795 or equivalent. Replace one 115 kV breaker, two 115 kV disconnect switches, and one 115 kV switch at Vanderbilt.
Year: Project Name: Description: Supporting Statement: In-Service	VANDERBILT – W. ASHEVILLE 115 KV T.L. Reconductor approximately 2.69 miles of the Vanderbilt – W. Asheville 115 kV transmission line with 3-795 or equivalent. Replace one 115 kV breaker, two 115 kV disconnect switches, and one 115 kV switch at Vanderbilt. The Vanderbilt – W. Asheville 115 kV transmission line overloads under contingency.
Year: Project Name: Description: Supporting Statement: In-Service Year:	VANDERBILT – W. ASHEVILLE 115 KV T.L. Reconductor approximately 2.69 miles of the Vanderbilt – W. Asheville 115 kV transmission line with 3-795 or equivalent. Replace one 115 kV breaker, two 115 kV disconnect switches, and one 115 kV switch at Vanderbilt. The Vanderbilt – W. Asheville 115 kV transmission line overloads under contingency.

SERTP TRANSMISSION PROJECTS LG&E/KU Balancing Authority

In-Service Year:	2019
Project Name:	JEFFERSONTOWN TAP – WATTERSON 138 KV T.L.
Description:	Replace the 1200 A CTs, the 954 MCM 37X AA bus conductor, and 750 MCM 37X CU jumper conductors at Watterson with equipment and conductor capable of at least 1400A.
Supporting Statement:	The Jeffersontown Tap – Watterson 138 kV transmission line overloads under contingency.
In-Service Year:	2019
Project Name:	PLAINVIEW TAP – PLAINVIEW 138 KV T.L.
Description:	Upgrade 1.57 miles of 1272 AA conductor on the Plainview tap – Plainview section of the Middletown – Beargrass 138 kV transmission line to 100°C operation.
Supporting Statement:	The Plainview Tap – Plainview 138 kV transmission line overloads under contingency.
In-Service Year:	2019
Project Name:	WEST LEXINGTON – VILEY ROAD 138 KV T.L.
Description:	Reconductor approximately 5.19 miles of 795 MCM ACSR conductor in the West Lexington – Viley Road section of the West Lexington – Viley Road – Haefling 138 kV transmission line, using high temperature conductor capable of at least 1500 A.
Supporting Statement:	The West Lexington – Viley Road 138 kV transmission line overloads under contingency.
In-Service Year:	2021
Project Name:	ELIZABETHTOWN – HARDIN COUNTY 138 KV T.L.
Description:	Construct a second Elizabethtown – Hardin Co 138 kV transmission line by overbuilding the existing Elizabethtown – Hardin Co 69 kV transmission line and install a 138 kV breaker on the Elizabethtown 138/69 kV transformer.
Supporting Statement:	The Hardin County 138/69 kV transformer overloads under contingency.

SERTP TRANSMISSION PROJECTS LG&E/KU Balancing Authority

l	n-Service Year:	2021
Proje	ect Name:	HIGBY MILL – REYNOLDS 138 KV T.L.
De	escription:	Upgrade approximately 1.67 miles of 795 ACSR conductor on the Higby Mill – Reynolds 138 kV transmission line to 100°C operation.
	upporting tatement:	The Higby Mill – Reynolds 138 kV transmission line overloads under contingency.
h	n-Service Year:	2021
Proje	ect Name:	MIDDLETOWN – JEFFERSONTOWN TAP 138 KV T.L.
De	escription:	Replace the 1200 A switches at Middletown, associated with the Middletown – Watterson 138 kV transmission line, with 1600 A or higher equipment.
	upporting tatement:	The Middletown – Jeffersontown Tap 138 kV transmission line overloads under contingency.
lı	n-Service Year:	2021
Proje	ect Name:	WEST LEXINGTON – HAEFLING 138 KV T.L.
De	escription:	Reconductor 7.34 miles of 795 MCM 26X7 ACSR conductor on the West Lexington – Haefling 138 kV line, using high temperature conductor capable of at least 1500 A.
	upporting tatement:	The West Lexington to Haefling 138 kV transmission line overloads under contingency.

In-Service Year:	2015
Project Name:	BELLEVILLE – BREWTON 115 KV T.L.
Description:	Upgrade Belleville – Brewton 115 kV transmission line to 100°C operation.
Supporting Statement:	The Belleville – Brewton 115 kV transmission line overloads under contingency.
In-Service Year:	2016
Project Name:	GASKIN – SOUTHPORT 115 KV T.L.
Description:	Construct 9 miles of new 115 kV transmission line from Gaskin Switching Station – Southport substation with 795 ACSR at 100°C.
Supporting Statement:	Improve the reliability of Gulf Coast Electric's substations by providing a looped service feed.
In-Service Year:	2016
Project Name:	HAYES – BOTTOMS MILL 115 KV T.L.
Description:	Construct 16 miles of new 115 kV transmission line from Bottom's Mill to Hayes with 795 ACSR at 100°C.
Supporting Statement:	Additional voltage support needed in the Dublin, Kyzar, Brundidge, Clio, and Victoria areas under contingency.
In-Service Year:	2016
Project Name:	LUVERNE – FULLER 115 KV T.L.
Description:	Reconductor 8.5 miles of transmission line from Luverne to Fullers substation with 795
	ACSR at 100°C.

In-Service Year:	2016
Project Name:	MCWILLIAMS – LUVERNE 115 KV T.L.
Description:	Upgrade 28 miles of the existing McWilliams – Luverne 46 kV transmission line to 115 kV with 795 ACSR at 100°C.
Supporting Statement:	Additional voltage support needed in the Dublin, Kyzar, Brundidge, Clio, and Victoria areas under contingency.
In-Service Year:	2017
Project Name:	BONIFAY – CHIPLEY 115 KV T.L.
Description:	Construct 14 miles of new 115 kV transmission line from Bonifay substation to a new Chipley switching station with 795 ACSR at 100°C.
Supporting Statement:	Additional voltage support is needed at Graceville and Fountain under contingency.
In-Service Year:	2017
Project Name:	MCWILLIAMS – OPP SW 115 KV T.L.
Description:	Reconductor 15 miles of the McWilliams – Opp Switching 115 kV transmission line with 795 ACSR at 110°C.
Supporting Statement:	The McWilliams – Opp Switching 115 kV transmission line overloads under contingency.

In-Service Year:	2015
Project Name:	ALBERTA CITY SWITCHING STATION
Description:	Construct a new 115 kV switching station adjacent to Alberta City DS and construct approximately 3.5 miles of 795 ACSS at 200°C to the South Tuscaloosa substation.
Supporting Statement:	The 31st Avenue – Kaul Tap – South Tuscaloosa 115 kV transmission line overloads under contingency. The South Tuscaloosa – Holt 115 kV transmission line overloads under contingency.
In-Service Year:	2015
Project Name:	ALLIGATOR SWAMP AND BELLVIEW 230 KV SUBSTATIONS
Description:	Add 120 MVAR 230 kV filtered capacitor banks at Alligator Swamp and Bellview.
Supporting Statement:	Additional voltage support is needed in the Alligator Swamp and Bellview areas under contingency.
In-Service Year:	2015
Project Name:	ALLIGATOR SWAMP SUBSTATION
Description:	Add a +125/-100 MVAR 230 kV SVC at Alligator Swamp.
Supporting Statement:	Additional voltage support is needed in the Alligator Swamp area.
In-Service Year:	2015
Project Name:	BESSEMER 230/115 KV SUBSTATION
Description:	Replace 2500 AAC leads with two (2) 1590 AAC leads per phase at Bessemer TS 230/115 kV transformer bank #4.
Supporting Statement:	The leads on the Bessemer 230/115 kV transformer overload under contingencies.

In-Service Year:	2015
Project Name:	BLAKELY PRIMARY – GEORGE DAM 115 KV T.L.
Description:	Install 8% series reactors at Blakely Primary on the Blakely Primary – George Dam 115 kV transmission line.
Supporting Statement:	The Blakely Primary – George Dam 115 kV transmission line overloads under contingency.
In-Service Year:	2015
Project Name:	BOULEVARD 230/115 KV PROJECT
Description:	Expand the Boulevard 115 kV substation to include a 230/115 kV 400 MVA transformer and increase the 115 kV capacitor bank to 60 MVAR. Rebuild the Dean Forest – Boulevard 115 kV transmission lines with 1351 ACSS at 170°C and convert one to 230 kV operation. Construct a new 230 kV substation, Crossgate, and loop in the Kraft – McIntosh White 230 kV transmission line. Construct approximately 5.5 miles of new 230 kV transmission line from Crossgate to Dean Forest with 1351 ACSS at 170°C. At Dean Forest substation, expand the 230 kV ring bus and terminate the Boulevard 230 kV transmission line as well as the Crossgate 230 kV transmission line.
Supporting Statement:	The Kraft 230/115 kV transformer overloads under contingency. The Deptford – Kraft 115 kV transmission line overloads under contingency. Project also provides additional voltage support in the Savannah area.
In-Service Year:	2015
Project Name:	CHICKASAW – BLAKELEY ISLAND 115 KV T.L.
Description:	Upgrade terminal equipment at Chickasaw, Kimberly Clark, and Blakeley Island substations along the Chickasaw – Blakely Island 115 kV transmission line to 2000 A.
Supporting Statement:	The terminal equipment at Kimberly Clark on the Blakely Island – Chickasaw 115 kV transmission line overloads under contingency.
In-Service Year:	2015
Project Name:	CHICKASAW – SOUTH MOBILE 115 KV T.L.
Description:	Loop the Chickasaw – South Mobile 115 kV transmission line into North Crichton Switching Station.
Supporting Statement:	Network reliability improvement needed in the Mobile area under contingency.

In-Service Year:	2015
Project Name:	CRIST – SHOAL RIVER 230 KV T.L.
Description:	Loop the Crist – Shoal River 230 kV transmission line into Alligator Swamp.
Supporting Statement:	Additional voltage support is needed in the Pensacola area under contingency.
In-Service Year:	2015
Project Name:	CUTHBERT PRIMARY 115 KV SUBSTATION
Description:	Install a 115 kV, 15 MVAR capacitor bank at Cuthbert Primary substation.
Supporting Statement:	Additional voltage support is needed in the Cuthbert area.
In-Service Year:	2015
Project Name:	ENTERPRISE AREA PROJECT
Description:	Install a new 230/115 kV substation, called South Enterprise TS, that taps the Pinckard – Opp 230 kV transmission line. Construct approximately 5.0 miles 115 kV transmission line from South Enterprise TS to Enterprise TS with 795 ACSS at 160°C.
Supporting Statement:	Sections of the Pinckard – Enterprise #2 115 kV transmission line overload under contingency.
In-Service Year:	2015
Project Name:	FARLEY SUBSTATION
Description:	Upgrade low side equipment on the Farley 500/230 kV Transformer #1 and #2.
Supporting Statement:	The low side equipment on the Farley 500/230 kV transformer overloads under contingency.
In-Service Year:	2015
Project Name:	FORTSON – TALBOT COUNTY #1 230 KV T.L.
Description:	Reconductor approximately 13.0 miles along the Fortson – Talbot County #1 230 kV transmission line with 1351 ACSS at 160°C.
Supporting Statement:	The Fortson – Talbot County #1 230 kV transmission line overloads under contingency.

In-Service Year:	2015
Project Name:	GASTON – EAST PELHAM 230 KV T.L.
Description:	Upgrade 11.97 miles of 1033 ACSR along the Gaston – East Pelham 230 kV transmission line from 75°C to 110°C operation.
Supporting Statement:	The Gaston – East Pelham 230 kV line overloads under contingency.
In-Service Year:	2015
Project Name:	GREENE COUNTY – BASSETT CREEK 230 KV T.L.
Description:	Construct approximately 58.0 miles of new 230 kV transmission line from Greene County to Bassett Creek with 1351 ACSS at 200°C. Convert Bassett Creek 115 kV switching station to a 230/115 kV substation.
Supporting Statement:	The Octagon SS – Thomasville 115 kV transmission line overloads under contingency.
In-Service Year:	2015
Project Name:	HATTIESBURG SW – HATTIESBURG NORTH 115 KV T.L.
Description:	Reconductor the existing 4.5 mile, 266 ACSR Hattiesburg SW – Hattiesburg 28th Ave Tap – West Hattiesburg Tap segments along the Hattiesburg SW – Hattiesburg North transmission line with 1033 ACSR at 100° C. Replace 600 A line switches at Hattiesburg SW and 28th Ave taps.
Supporting Statement:	The Hattiesburg SW – Hattiesburg North transmission line overloads under contingency.
In-Service Year:	2015
Project Name:	HATTIESBURG SW – HIGHWAY 11 115 KV T.L.
Description:	Reconductor the 1.7 mile transmission line segment from Hattiesburg SW to Highway 11 with 795 ACSR at 100° C.
Supporting Statement:	The Hattiesburg SW – Highway 11 115 kV transmission line overloads under contingency.

In-Service Year:	2015
Project Name:	HENRY DAM – RAINBOW CITY 115 KV T.L.
Description:	Upgrade 12.1 miles of the Henry Dam – Cedar Bend – North Cedar Bend Tap – Rainbow City 115 kV transmission line to 125°C operation.
Supporting Statement:	The Henry Dam – Rainbow City 115 kV transmission line overloads under contingency.
In-Service Year:	2015
Project Name:	HIGHLAND CITY SUBSTATION
Description:	Add + /- 100 MVAR SVC at Highland City substation.
Supporting Statement:	Additional voltage is needed in the Highland City area.
In-Service Year:	2015
Project Name:	JASPER – PINE GROVE PRIMARY 115 KV T.L.
Description:	Rebuild, at 230 kV specifications, the Jasper – Pine Grove Primary 115 kV transmission line, approximately 21.7 miles, with 1351 ACSR at 100°C and network the transmission line.
Supporting Statement:	The Jasper – West Homerville – Kettle Creek and Pine Grove Primary – Twin Lakes 115 kV transmission lines overload under contingency.
In-Service Year:	2015
Year:	2015

In-Service Year:	2015
Project Name:	MCINTOSH – PURRYSBURG #2 230 KV T.L.
Description:	Connect the second Purrysburg (SCPSA) 230 kV tie line to the McIntosh 230/115 kV substation and re-terminate the McIntosh CC #11 line from West McIntosh to McIntosh.
Supporting Statement:	The Mcintosh 230/115 kV transformer and the McIntosh – Yemassee (SCE&G) 115 kV transmission lines overload under contingency.
In-Service Year:	2015
Project Name:	MERIDIAN – SWEATT #1 115 KV T.L.
Description:	Rebuild 2.2 miles of the Meridian – Plant Sweatt #1 115 kV transmission line between Delco Remy and Plant Sweatt with 795 ACSR.
Supporting Statement:	The Meridian – Sweatt 115 kV transmission line overloads under contingency.
In-Service Year:	2015
	2015 MICHAEL BLVD D.S. – MICHAEL BLVD TAP 115 KV T.L.
Year:	
Year: Project Name:	MICHAEL BLVD D.S. – MICHAEL BLVD TAP 115 KV T.L. Upgrade approximately 1.0 miles of 397 ACSR 115 kV transmission line from Michael
Year: Project Name: Description: Supporting	MICHAEL BLVD D.S. – MICHAEL BLVD TAP 115 KV T.L. Upgrade approximately 1.0 miles of 397 ACSR 115 kV transmission line from Michael Boulevard D.S. – Michael Boulevard Tap to 100°C operation.
Year: Project Name: Description: Supporting Statement: In-Service	MICHAEL BLVD D.S. – MICHAEL BLVD TAP 115 KV T.L. Upgrade approximately 1.0 miles of 397 ACSR 115 kV transmission line from Michael Boulevard D.S. – Michael Boulevard Tap to 100°C operation. Network reliability improvement needed in the Mobile area under contingency.
Year: Project Name: Description: Supporting Statement: In-Service Year:	MICHAEL BLVD D.S. – MICHAEL BLVD TAP 115 KV T.L. Upgrade approximately 1.0 miles of 397 ACSR 115 kV transmission line from Michael Boulevard D.S. – Michael Boulevard Tap to 100°C operation. Network reliability improvement needed in the Mobile area under contingency. 2015

In-Service Year:	2015
Project Name:	NORTH BREWTON – ALLIGATOR SWAMP 230 KV T.L.
Description:	Construct a new 54.7 mile 230 kV transmission line from North Brewton to Alligator Swamp with 1351 ACSS at 200°C.
Supporting Statement:	The Chickasaw – Silverhill #1 230 kV and Barry – Crist 230 kV transmission lines overload under contingency.
In-Service Year:	2015
Project Name:	NORTH COTTONTON CAPACITOR STATION
Description:	Add a 15 MVAR 115 kV capacitor station on the Eufaula – Fort Mitchell 115 kV transmission line between Cottonton TS and Oswichee Tap.
Supporting Statement:	Additional voltage support is needed in the Eufaula area.
In-Service Year:	2015
Project Name:	NORTH CRICHTON SWITCHING STATION
Description:	Construct a six terminal 2000 A 115 kV ring bus at the new North Crichton switching station.
Supporting Statement:	Network reliability improvement needed in the Mobile area under contingency.
In-Service Year:	2015
Project Name:	NORTH MOBILE – CRICHTON #1 115 KV T.L.
Description:	Reconductor approximately 2.81 miles along the existing North Mobile – Crichton #1 115 kV transmission line with 795 ACSS. Loop the North Mobile – Crichton #1 115 kV transmission line into the North Crichton Switching Station. Reconnect Wolf Ridge Tap to the Crichton 115 kV transmission line between North Mobile and new North Crichton Switching Station.
Supporting Statement:	Network reliability improvement needed in the Mobile area under contingency.

In-Service Year:	2015
Project Name:	NORTH MOBILE – SOUTH MOBILE 115 KV T.L.
Description:	Loop the North Mobile – South Mobile 115 kV transmission line into the North Crichton Switching Station.
Supporting Statement:	Network reliability improvement needed in the Mobile area under contingency.
In-Service Year:	2015
Project Name:	NORTH MOBILE – SPRINGHILL 115 KV T.L.
Description:	Reconductor approximately 1.83 miles with 795 ACSR at 100°C from Wolf Ridge Tap – Springhill D.S. along the North Mobile – Springhill 115 kV transmission line.
Supporting Statement:	Network reliability improvement needed in the Mobile area under contingency.
In-Service Year:	2015
Project Name:	NORTH TIFTON SUBSTATION
Description:	Replace existing 1600A, 230 kV bus tie breaker with a new 3000 A breaker and install a second 3000A bus tie breaker in series with the existing bus tie breaker.
Supporting Statement:	The existing 230 kV bus tie breaker at North Tifton overloads under contingency.
In-Service Year:	2015
Project Name:	NORTHWEST 230/115 KV SUBSTATION
Description:	Replace the 115 kV, 1590 AAC low side jumpers on transformer Bank A at Northwest substation with jumpers rated for at least 2000 A.
Supporting Statement:	The lowside jumpers on transformer Bank A at Northwest substation overload under contingency.

In-Service Year:	2015
Project Name:	PINCKARD – HOLMES CREEK – HIGHLAND CITY 230 KV T.L.
Description:	Convert the Pinckard TS – Holmes Creek 115 kV transmission line to 230 kV operation. Construct approximately 70 miles of new 230 kV transmission line from Holmes Creek to Highland City with 1351 ACSS at 200°C.
Supporting Statement:	The Callaway – Gaskin 115 kV transmission line and multiple other facilities in the Panama City area overload under contingency. Additional voltage support also needed in the Panama City area under contingency.
In-Service Year:	2015
Project Name:	PLANT KRAFT 115/46 KV SUBSTATION
Description:	Install a second 115/46 kV transformer at the Plant Kraft substation.
Supporting Statement:	Additional voltage support is needed in the Kraft area under contingency.
In-Service Year:	2015
Project Name:	
riojeet Nume.	RACETRACK – LOTT ROAD 115 KV T.L.
Description:	Construct 3.7 miles of 795 ACSS 115 kV transmission line at 160°C from Racetrack D.S. to Lott Road D.S.
-	Construct 3.7 miles of 795 ACSS 115 kV transmission line at 160°C from Racetrack D.S.
Description: Supporting	Construct 3.7 miles of 795 ACSS 115 kV transmission line at 160°C from Racetrack D.S. to Lott Road D.S.
Description: Supporting Statement: In-Service	Construct 3.7 miles of 795 ACSS 115 kV transmission line at 160°C from Racetrack D.S. to Lott Road D.S. Network reliability improvement needed in the Mobile area under contingency.
Description: Supporting Statement: In-Service Year:	Construct 3.7 miles of 795 ACSS 115 kV transmission line at 160°C from Racetrack D.S. to Lott Road D.S. Network reliability improvement needed in the Mobile area under contingency.
Description: Supporting Statement: In-Service Year: Project Name:	Construct 3.7 miles of 795 ACSS 115 kV transmission line at 160°C from Racetrack D.S. to Lott Road D.S. Network reliability improvement needed in the Mobile area under contingency. 2015 RED RIDGE SUBSTATION
Description: Supporting Statement: In-Service Year: Project Name: Description: Supporting	Construct 3.7 miles of 795 ACSS 115 kV transmission line at 160°C from Racetrack D.S. to Lott Road D.S. Network reliability improvement needed in the Mobile area under contingency. 2015 RED RIDGE SUBSTATION Add 15 MVAR 115 kV capacitor bank at Red Ridge Substation.
Description: Supporting Statement: In-Service Year: Project Name: Description: Supporting Statement: In-Service	Construct 3.7 miles of 795 ACSS 115 kV transmission line at 160°C from Racetrack D.S. to Lott Road D.S. Network reliability improvement needed in the Mobile area under contingency. 2015 RED RIDGE SUBSTATION Add 15 MVAR 115 kV capacitor bank at Red Ridge Substation. Additional voltage support is needed in the Red Ridge area under contingency.
Description: Supporting Statement: In-Service Year: Project Name: Description: Supporting Statement: In-Service Year:	Construct 3.7 miles of 795 ACSS 115 kV transmission line at 160°C from Racetrack D.S. to Lott Road D.S. Network reliability improvement needed in the Mobile area under contingency. 2015 RED RIDGE SUBSTATION Add 15 MVAR 115 kV capacitor bank at Red Ridge Substation. Additional voltage support is needed in the Red Ridge area under contingency.

In-Service Year:	2015
Project Name:	SANTA ROSA – LAGUNA BEACH 230 KV T.L.
Description:	Construct a new Santa Rosa 230 kV substation with one (1) 400 MVA 230/115 kV transformer. Replace Laguna Beach – Santa Rosa #1 115 kV transmission line with a new 1351 ACSR 230 kV transmission line.
Supporting Statement:	The Bluewater – Crystal Beach submarine cable overloads under contingency. In addition, the Freeport – Villa Tasso 115 kV transmission line overloads under contingency.
In-Service Year:	2015
Project Name:	SHILLINGER ROAD – LOTT ROAD 115 KV T.L.
Description:	Construct 2.1 miles of 795 ACSS 115 kV transmission line at 160°C from Schillinger Road to Lott Road Tap.
Supporting Statement:	Network reliability improvement needed in the Mobile area under contingency.
In-Service	
Year:	2015
	2015 STATESBORO PRIMARY SUBSTATION
Year:	
Year: Project Name:	STATESBORO PRIMARY SUBSTATION Install a second 115 kV bus tie breaker in series with the existing 115 kV bus tie breaker
Year: Project Name: Description: Supporting	STATESBORO PRIMARY SUBSTATION Install a second 115 kV bus tie breaker in series with the existing 115 kV bus tie breaker at the Statesboro Primary substation.
Year: Project Name: Description: Supporting Statement: In-Service	STATESBORO PRIMARY SUBSTATION Install a second 115 kV bus tie breaker in series with the existing 115 kV bus tie breaker at the Statesboro Primary substation. Network reliability improvement.
Year: Project Name: Description: Supporting Statement: In-Service Year:	STATESBORO PRIMARY SUBSTATION Install a second 115 kV bus tie breaker in series with the existing 115 kV bus tie breaker at the Statesboro Primary substation. Network reliability improvement.

In-Service Year:	2015
Project Name:	TUSCALOOSA AREA PROJECT
Description:	Convert Moundville (to be called North Moundville) and Akron 44 kV substations to 115 kV substations. Install a 230/115 kV transformer at a new Moundville TS and construct approximately 8.5 miles of new 1033 ACSS, 115 kV transmission line at 200°C from Moundville TS to Big Sandy/Englewood tap.
Supporting Statement:	The section of 115 kV transmission line from Eutaw to Big Sandy Tap overloads under contingency. Additional voltage support is also needed in the Tuscaloosa area.
In-Service Year:	2015
Project Name:	WESTBURY – LEEDS 115 KV T.L.
Description:	Upgrade approximately 7.86 miles of bundled (2) 397 ACSR along the Westbury – Leeds 115 kV transmission line from 50°C to 100°C operation.
Supporting Statement:	The Westbury – Leeds 115 kV transmission line overloads under contingency.
In-Service Year:	2015
Project Name:	YATES SUBSTATION
Description:	Replace the existing 115 kV substation at Yates with a new substation adjacent to the existing Yates switchyard. Relocate and re-terminate the Yates – Possum Branch 115 kV, Yates – Dyer Road White 115 kV, Yates – Dyer Road Black 115 kV, Yates – Wansley Pumping Station 115 kV and Yates – Morrow 115 kV transmission lines.
Supporting Statement:	The Yates 115 kV buswork overloads under contingency.
In-Service Year:	2016
Project Name:	BARNWELL – POINT CLEAR TAP 115 KV T.L.
Description:	Reconductor approximately 6.0 miles along the Barnwell to Point Clear Tap 115 kV transmission line with 795 ACSR at 100° C.
Supporting Statement:	The Barnwell – Point Clear 115 kV Tap overloads under contingency.

In-Service Year:	2016
Project Name:	CRISP COUNTY AREA IMPROVEMENTS
Description:	Construct approximately 12 miles of new 636 ACSR, 115 kV transmission line from Crisp #2 (Warwick) – Crisp #8. Add three 115 kV breakers at Warwick to create the North Americus – Crisp #2 and North Tifton – Crisp #2 115 kV circuits. Also, construct a 2.1 mile, 636 ACSR 115 kV transmission line section from Crisp County #8 – Crisp County #6 to create the Crisp #2 – Pitts 115 kV circuit.
Supporting Statement:	Additional voltage support needed in the Crisp County area under contingency.
In-Service Year:	2016
Project Name:	CROOKED CREEK – MARTIN DAM #2 (EAST) 115 KV T.L.
Description:	Upgrade approximately 46.5 miles of the Crooked Creek – Martin Dam #2 (East) 115 kV transmission line to 100°C operation.
Supporting Statement:	The Crooked Creek – Martin Dam #2 115 kV transmission line overloads under contingency.
In-Service Year:	2016
Project Name:	DEAN FOREST – MILLHAVEN ANNEX 115 KV T.L.
Description:	Construct approximately 5.3 miles of 795 ACSR 115 kV transmission line from Dean Forest to Millhaven Annex.
Supporting Statement:	Additional voltage support is needed in the Millhaven area under contingency.
In-Service Year:	2016
Project Name:	ENGLEWOOD – SOUTH TUSCALOOSA 115 KV T.L.
Description:	Construct approximately 9.0 miles of 1033.5 ACSS 115 kV transmission line at 200°C from Englewood to South Tuscaloosa.
Supporting Statement:	The Eutaw – Moundville Tap 115 kV transmission line overloads under contingency.

In-Service Year:	2016
Project Name:	GOSHEN – MCINTOSH 115 KV T.L.
Description:	Reconductor approximately 8.3 miles along the Goshen – McIntosh 115 kV transmission line with 1351 ACSR at 100°C.
Supporting Statement:	The Goshen – McIntosh 115 kV transmission line overloads under contingency.
In-Service Year:	2016
Project Name:	RICE HOPE SUBSTATION
Description:	Construct a three element 115 kV ring bus called Rice Hope. Terminate the Goshen and Kraft 115 kV transmission lines into the new ring bus. Install a new 115 kV, 45 MVAR capacitor bank.
Supporting Statement:	Additional voltage support is needed in the Rice Hope area under contingency.
In-Service Year:	2016
Project Name:	SOUTH HALL SUBSTATION
Description:	Install 230 kV series bus tie breakers at the South Hall substation.
Supporting Statement:	The Gainesville #2 Bank C overloads under contingency.
In-Service Year:	2016
Project Name:	SPRINGDALE – SPRINGHILL 115 KV T.L.
Description:	Reconductor approximately 2.5 miles along the Springdale – Springhill 115 kV transmission line with 795 ACSR at 100°C .
Supporting Statement:	Network reliability improvement needed in the Mobile area under contingency.

In-Service Year:	2016
Project Name:	TUSCALOOSA – BANKHEAD 115 KV T.L.
Description:	Install two (2) 115 kV switches on the Tuscaloosa – Bankhead 115 kV transmission line. Shift Lakeland D.S., Caroll's Creek D.S., and Sokol Park D.S. from the Tuscaloosa – Gorgas 115 kV transmission line to the Tuscaloosa – Bankhead 115 kV transmission line.
Supporting Statement:	The Tuscaloosa – Sokol Park – Carroll's Creek 115 kV sections of the Tuscaloosa – Gorgas 115 kV transmission line overload under contingency.
In-Service Year:	2016
Project Name:	WEST MONTGOMERY – GREENVILLE 115 KV T.L.
Description:	Reconductor approximately 1.3 miles from Lamar Road Tap – Hope Hull 115 kV transmission line with 795 ACSR at 100°C.
Supporting Statement:	The West Montgomery – Greenville 115 kV transmission line overloads under contingency.
In-Service Year:	2016
Project Name:	YACHT CLUB SUBSTATION
Description:	Install one new 15 MVAR capacitor bank at Yacht Club Distribution Substation.
Supporting Statement:	Additional voltage support is needed in the Yacht Club area.
In-Service Year:	2017
Project Name:	DUBLIN AREA IMPROVEMENTS
Description:	Construct approximately 13 miles of 115 kV transmission line from Danville to North Dudley with 795 ACSR at 100°C. Reconductor approximately 8.5 miles along the Jeffersonville to Danville tap 115 kV transmission line with 336 ACSS at 200°C. Construct a three-breaker 115 kV switching station at the Jeffersonville tap point and upgrade approximately 15.2 miles of 115 kV transmission line from the switching station to Bonaire Primary to 100°C operation. Install three breakers at the Beckham Road substation for Vidalia, SE Paper, and Dublin 115 kV transmission lines. Upgrade the 115 kV bus at Soperton Primary.
Supporting Statement:	Additional voltage support needed in the Dublin area under contingency.

In-Service Year:	2017
Project Name:	AULTMAN ROAD – BONAIRE PRIMARY 115 KV T.L.
Description:	Reconductor approximately 3.7 miles of 336 ACSR, 115 kV transmission line along the Bonaire Primary – Peach Blossom section of the Bonaire Primary – Aultman Road 115 kV transmission line with 795 ACSR at 100°C.
Supporting Statement:	The Bonaire Primary – Peach Blossom 115 kV transmission line overloads under contingency.
In-Service Year:	2017
Project Name:	BARRY – CRIST 230 KV T.L.
Description:	Upgrade approximately 31.6 miles along the Barry – Crist 230 kV transmission line to 125°C operation.
Supporting Statement:	The Barry – Crist 230 kV transmission line overloads under contingency.
In-Service Year:	2017
Project Name:	BAXLEY – SOUTH HAZLEHURST 115 KV T.L.
Project Name: Description:	BAXLEY – SOUTH HAZLEHURST 115 KV T.L. At the Pine Grove distribution substation, replace the 115 kV bus as well as the line switch and jumpers on the Baxley – South Hazlehurst 115 kV transmission line.
	At the Pine Grove distribution substation, replace the 115 kV bus as well as the line
Description: Supporting	At the Pine Grove distribution substation, replace the 115 kV bus as well as the line switch and jumpers on the Baxley – South Hazlehurst 115 kV transmission line.
Description: Supporting Statement: In-Service	At the Pine Grove distribution substation, replace the 115 kV bus as well as the line switch and jumpers on the Baxley – South Hazlehurst 115 kV transmission line. The bus and terminal equipment at Pine Grove overloads under contingency.
Description: Supporting Statement: In-Service Year:	At the Pine Grove distribution substation, replace the 115 kV bus as well as the line switch and jumpers on the Baxley – South Hazlehurst 115 kV transmission line. The bus and terminal equipment at Pine Grove overloads under contingency. 2017

In-Service Year:	2017
Project Name:	CORN CRIB 230/115 KV SUBSTATION
Description:	Construct a new 230/115 kV substation with a 400 MVA transformer. Loop in the Dyer Road – Thomaston 230 kV, Dyer Road – Thomaston 115 kV, and the Dyer Road – Lagrange 115 kV transmission lines. Terminate the Dyer Road – Newnan #3 Junction 115 kV transmission line.
Supporting Statement:	The Lagrange Primary – Yates 115 kV transmission line overloads under contingency. This project also provides voltage support along the Dyer Road – Thomaston 115 kV transmission line.
In-Service Year:	2017
Project Name:	DALTON – EAST DALTON B/W 115 KV T.L.S
Description:	Replace the 500 Cu main bus and jumpers at Dalton and East Dalton 115 kV substations along the Dalton – East Dalton 115 kV Black and White transmission lines.
Supporting Statement:	The Dalton – East Dalton 115 kV Black and White transmission lines overload under contingency.
In-Service Year:	2017
Project Name:	FISH RIVER TAP – FAIRHOPE 115 KV T.L.
Description:	Reconductor approximately 4.5 miles of 115 kV transmission line from Fish River Tap to Fairhope with 795 ACSR at 100°C.
Supporting Statement:	The Fish River Tap – Fairhope 115 kV transmission line overloads under contingency.
In-Service Year:	2017
Project Name:	GORGAS – JASPER TAP 161 KV T.L.
Description:	Reconductor approximately 15 miles along the Gorgas – Taft Coal – Jasper Tap 161 kV transmission line with 795 ACSR at 100°C.
Supporting Statement:	The Gorgas – Taft Coal – Jasper Tap 161 kV transmission line overloads under contingency.

In-Service Year:	2017
Project Name:	HAMPTON – MCDONOUGH 115 KV T.L.
Description:	Rebuild approximately 2.1 miles from McDonough to Dailey Mill Tap along the McDonough – Hampton 115 kV transmission line with double circuit 1351 ACSR constructed at 230 kV specifications. Construct approximately 4.6 miles of 115 kV transmission line from Dailey Mill to Flippen with 1351 ACSR, creating a network line from McDonough to Stockbridge (through Greenwood Park, Dailey Mill, and Flippen).
Supporting Statement:	The Hampton – McDonough tap 115 kV transmission line overloads under contingency.
In-Service Year:	2017
Project Name:	LAGRANGE PRIMARY – GLASSBRIDGE 115 KV T.L.
Description:	Reconductor approximately 1 mile of the Lagrange 5 to Milliken (Lagrange) segment of the Lagrange Primary – Glassbridge 115 kV transmission line with 795 ACSR.
Supporting Statement:	Network reliability improvement needed in the Lagrange area under contingency.
In-Service Year:	2017
Project Name:	POINT CLEAR TAP – FAIRHOPE 115 KV T.L.
Description:	Reconductor approximately 1.0 mile of 115 kV transmission line from Point Clear Tap – Fairhope with 795 ACSR at 100°C.
Supporting Statement:	The Point Clear Tap – Fairhope 115 kV transmission line overloads under contingency.
In-Service Year:	2017
Project Name:	SILVERHILL – FISH RIVER TAP 115 KV T.L.
Description:	Reconductor approximately 6.0 miles with 795 ACSR at 100°C along the Silverhill – Fish River Tap 115 kV transmission line.
Supporting Statement:	The Silverhill – Fish River 115 kV Tap overloads under contingency.

In-Service Year:	2017
Project Name:	SOUTH BIRMINGHAM 115 KV PROJECT
Description:	Construct a 115 kV switching station near Bessemer TS that loops in the existing Bessemer to Magella 115 kV transmission line. Construct another 115 kV switching station by expanding Massey Road DS and looping in the South Jefferson to North Helena 115 kV transmission line.
Supporting Statement:	Network reliability improvement needed in the South Birmingham area.
In-Service Year:	2017
Project Name:	SOUTH HAZLEHURST SUBSTATION
Description:	Replace 230/115 kV Banks B & C at South Hazlehurst.
Supporting Statement:	The 230/115 kV Bank B at South Hazlehurst overloads under contingency.
In-Service Year:	2017
Project Name:	THOMSON PRIMARY – VOGTLE 500 KV T.L.
Description:	Construct approximately 55.0 miles of new 500 kV transmission line from Plant Vogtle to the Thomson Primary 500/230 kV substation.
Supporting Statement:	Needed to support the expansion of Plant Vogtle.
In-Service Year:	2017
Project Name:	WADLEY PRIMARY 500/230 KV SUBSTATION
Description:	Construct a new 500 kV substation on the Vogtle – Warthen 500 kV transmission line. Install a 2016 MVA, 500/230 kV transformer that ties to the Wadley Primary 230 kV bus. Upgrade the 230 kV bus at Wadley Primary with 2–1590 AAC.
Supporting Statement:	Project to enhance reliability in the Augusta area and to support the expansion of Plant Vogtle.

In-Service Year:	2018
Project Name:	AUBURN – OPELIKA AREA 115 KV T.L. NETWORKING
Description:	Add a new 115 kV switching station at East Loop, a new 115 kV switching station at West North Auburn and construct approximately 4.0 miles of 115 kV transmission line from West North Auburn to Wire Road. Construct a new 115 kV switching station west of Marvyn and a new switching station near Chewacla Tap. Reconductor approximately 1.8 miles of 115 kV transmission line between Opelika #1 and Opelika #3 with 795 ACSR at 100°C. Reconductor approximately 14.5 miles of 115 kV transmission line between Sanford SS – Sonat Tap – Pin Oaks – Beehive Tap – Chewacla with 397.5 ACSS at 200°C.
Supporting Statement:	The Opelika #5 – Opelika #8 115 kV transmission line overloads under contingency.
In-Service Year:	2018
Project Name:	BARNEYVILLE – DOUGLAS 115 KV T.L.
Description:	Upgrade approximately 2.5 miles along the Nashville #1 – Nashville #2 section of the Barneyville – Douglas 115 kV transmission line to 100°C operation.
Supporting Statement:	The Barneyville – Douglas 115 kV transmission line overloads under contingency.
In-Service Year:	2018
Project Name:	BARNWELL TAP – TURKEY HILL 115 KV T.L.
Description:	Construct approximately 2.75 miles of 795 ACSR 115 kV transmission line at 100°C from Barnwell Tap to Turkey Hill to create a new Silverhill – Fairhope – Turkey Hill "C" 115 kV transmission line.
Supporting Statement:	The Silverhill – Magnolia 115 kV transmission line overloads under contingency.
In-Service Year:	2018
Project Name:	BILOXI OAK STREET SUBSTATION
Description:	Construct a new 115/23 kV substation at Biloxi Oak street and loop in the Percy Street – Keesler 115 kV transmission line.
Supporting Statement:	This project is needed to support area load growth.

In-Service Year:	2018
Project Name:	BLAKELY PRIMARY – MITCHELL 115 KV T.L.
Description:	Upgrade approximately 28.4 miles of 115 kV transmission line from Plant Mitchell to Morgan substation to 100°C operation.
Supporting Statement:	The Mitchell – Morgan 115 kV transmission line segment overloads under load restoration.
In-Service Year:	2018
Project Name:	BONAIRE PRIMARY – KATHLEEN 115 KV T.L.
Description:	Reconductor approximately 5.9 miles of existing 336 ACSR 115 kV transmission line from Bonaire Primary to Kathleen with 795 ACSR at 100° C.
Supporting Statement:	The Bonaire Primary – Kathleen 115 kV transmission line overloads under contingency.
In-Service Year:	2018
Project Name:	CLAXTON – STATESBORO PRIMARY 115 KV T.L.
Project Name: Description:	CLAXTON – STATESBORO PRIMARY 115 KV T.L. Reconductor approximately 17.8 miles along the Claxton – Statesboro Primary 115 kV transmission line with 795 ACSR at 100°C. Replace 600 A switches at Langston and Statesboro with 2000 A switches.
-	Reconductor approximately 17.8 miles along the Claxton – Statesboro Primary 115 kV transmission line with 795 ACSR at 100°C. Replace 600 A switches at Langston and
Description: Supporting	Reconductor approximately 17.8 miles along the Claxton – Statesboro Primary 115 kV transmission line with 795 ACSR at 100°C. Replace 600 A switches at Langston and Statesboro with 2000 A switches.
Description: Supporting Statement: In-Service	Reconductor approximately 17.8 miles along the Claxton – Statesboro Primary 115 kV transmission line with 795 ACSR at 100°C. Replace 600 A switches at Langston and Statesboro with 2000 A switches. The Claxton – Statesboro 115 kV transmission line overloads under contingency.
Description: Supporting Statement: In-Service Year:	Reconductor approximately 17.8 miles along the Claxton – Statesboro Primary 115 kV transmission line with 795 ACSR at 100°C. Replace 600 A switches at Langston and Statesboro with 2000 A switches. The Claxton – Statesboro 115 kV transmission line overloads under contingency. 2018

In-Service Year:	2018
Project Name:	GORDON – SANDERSVILLE #1 115 KV T.L.
Description:	Upgrade the 30 mile section from Gordon to Robins Spring along the Gordon – Sandersville #1 115 kV transmission line from 50°C to 100°C operation.
Supporting Statement:	The Gordon – Robins Spring section of the Gordon – Sandersville #1 115 kV transmission line overloads under contingency.
In-Service Year:	2018
Project Name:	HURRICANE CREEK – WIGGINS SS 115 KV T.L.
Description:	Reconductor the 8.76 mile Hurricane Creek – Wiggins SS 115 kV transmission line with 795 ACSR at 100°C.
Supporting Statement:	The Hurricane Creek – Wiggins SS 115 kV transmission line overloads under contingency.
In-Service Year:	2018
Project Name:	MADISON PARK – AUBURN UNIVERSITY (MONTGOMERY) TAP 115 KV T.L.
Description:	Reconductor approximately 1.55 miles of 795 ACSR at 100°C from Madison Park – Auburn University (Montgomery) Tap 115 kV transmission line with 1351 ACSR at 100°C.
Supporting Statement:	The Madison Park – Auburn University (Montgomery) Tap 115 kV transmission line overloads under contingency.
In-Service Year:	2018
Project Name:	MERIDIAN INDUSTRIAL SUBSTATION
Description:	Construct a new 115/12 kV substation by tapping the Meridian NE – Vimville 115 kV transmission line.
Supporting Statement:	Needed to support area load growth.

In-Service Year:	2018
Project Name:	MITCHELL DAM – CLANTON LOOP TAP 115 KV T.L.
Description:	Construct approximately 10.3 miles of 115 kV transmission line from Mitchell Dam – Clanton Loop Tap with 795 ACSS at 200°C.
Supporting Statement:	The Mitchell Dam – CRH Tap – Clanton Tap 115 kV transmission line overloads under contingency.
In-Service Year:	2018
Project Name:	MOSS POINT ELDER FERRY SUBSTATION
Description:	Retire the Moss Point Elder Ferry 230/23 kV transformers and replace with 115 kV service by tapping the Wade – Moss Point East 115 kV transmission line.
Supporting Statement:	Needed to support area load growth.
In-Service Year:	2018
Project Name:	PRATTVILLE AREA PROJECT
Description:	Construct approximately 6.5 miles of 795 ACSR 115 kV transmission line at 100°C from County Line Road – Prattville DS. Install new 115 kV terminal at Hunter SS. Construct approximately 2.7 miles of 795 ACSR 115 kV transmission line at 100°C from Hunter SS to GE Burkeville Tap.
Supporting Statement:	The West Montgomery – Hunter 115 kV transmission line overloads under contingency.
In-Service Year:	2018
Project Name:	SOUTH CRESTVIEW – GLENDALE TAP 115 KV T.L.
Description:	Construct approximately 11.5 miles of 795 ACSR 115 kV transmission line at 100°C from South Crestview to Glendale Tap.
Supporting Statement:	The Holmes Creek – Pittman – Geneva Tap 115 kV transmission line overloads under contingency.

In-Service Year:	2018
Project Name:	STATESBORO PRIMARY – WADLEY PRIMARY 115 KV T.L.
Description:	Upgrade approximately 17.0 miles along the Nunez tap – Stillmore – Metter section of the Statesboro – Wadley Primary 115 kV transmission line from 50°C to 100°C operation. Replace the 600 A line switches at the Nunez Tap with 2000 A switches. Replace 600 A switches at Wadley Primary with 2000 A switches.
Supporting Statement:	The Nunez tap – Stillmore – Metter section of the Statesboro – Wadley Primary 115 kV transmission line overloads under contingency.
In-Service Year:	2018
Project Name:	THEODORE AREA PROJECT
Description:	Construct approximately 5.3 miles of new 115 kV transmission line to the Praxair Tap from North Theodore and add a switching station near Tronox LLC. Reconductor approximately 1 mile of the Hollinger's Island – Holcim 115 kV transmission line to 795 ACSR.
Supporting Statement:	The North Theodore – Deer River 115 kV transmission line overloads under contingency.
In-Service Year:	2019
Project Name:	AMERICUS – NORTH AMERICUS (BLACK) 115 KV T.L.
Description:	Reconductor approximately 3.2 miles along the Americus – North Americus (Black) 115 kV transmission line to 100°C 795 ACSR.
Supporting Statement:	The Americus – North Americus (Black) 115 kV transmission line overloads under contingency.
In-Service Year:	2019
Project Name:	BIO SUBSTATION
Description:	Replace the 1200 A 115 kV breaker on the Avalon Junction – Bio 115 kV transmission line at Bio with a 2000 A breaker.
Supporting Statement:	The breaker at Bio on the Avalon Junction 115 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	DOUGLASVILLE – POST ROAD 115 KV T.L.
Description:	Reconductor approximately 6.0 miles along the Douglasville – Anneewakee Junction section of the Douglasville – Post Road 115 kV transmission line with 1033 ACSR at 100°C.
Supporting Statement:	The Douglasville 115 kV line overloads under contingency.
In-Service Year:	2019
Project Name:	EAST VIDALIA SUBSTATION
Description:	Replace 600 A switch at East Vidalia with a 1200 A switch.
Supporting Statement:	The switch at East Vidalia overloads under contingency.
In-Service Year:	2019
Project Name:	EASTERN AREA 115 KV SOLUTION
Description:	Reconductor approximately 5.3 miles of 397 ACSR at 75°C 115 kV transmission line between Gulf States Steel and Rainbow City SS with 795 ACSS at 200°C. Install new 115 kV switching station around Rainbow City. Install new 115 kV terminal at Clay TS. Upgrade the existing 230/115 kV transformer at Clay TS to 477 MVA. Construct approximately 34 miles of 795 ACSS at 200°C between Clay TS and the new Rainbow City SS.
Supporting Statement:	Addresses high loadings and provides maintenance flexibility for several 115 kV transmission lines in the Gadsden area.
In-Service Year:	2019
Project Name:	HOLT – SOUTH BESSEMER 230 KV T.L.
Description:	Construct approximately 25 miles of 1351 ACSS 230 kV transmission line at 200°C from Holt to South Bessemer. Install a 230/115 kV 400 MVA transformer along the new Holt – South Bessemer 230 kV transmission line and construct approximately 1.0 mile of new 115 kV transmission line to the existing Daimler DS with 795 ACSR at 100°C.
Supporting Statement:	The South Tuscaloosa – 31st Avenue 115 kV transmission line overloads under contingency. This project also provides increased reliability, operational, and maintenance flexibility for the Tuscaloosa Area.

In-Service Year:	2019
Project Name:	MCINTOSH – MCINTOSH CC#10 230 KV T.L.
Description:	Reterminate McIntosh CC #10 from West McIntosh to the McIntosh 230/115 kV substation.
Supporting Statement:	The McIntosh – West McIntosh 230 kV (Black) transmission line overloads under contingency.
In-Service Year:	2019
Project Name:	NORTH DUBLIN SUBSTATION
Description:	Replace 230/115 kV 140 MVA Bank A transformer with a new 300 MVA transformer.
Supporting Statement:	The existing North Dublin autobank overloads under contingency.
In-Service Year:	2019
Project Name:	THOMASTON SUBSTATION
Description:	Replace 300 MVA, 230/115 kV transformer "C" at Thomaston with a new 400 MVA, 230/115 kV transformer.
Supporting Statement:	The 230/115 kV transformer "C" at Thomaston overloads under contingency.
In-Service Year:	2019
Project Name:	WAYNESBORO 230/115 KV SUBSTATION
Description:	Install a second 230/115 kV 300 MVA transformer, 230 kV series bus tie breakers, and a 115 kV bus tie breaker at Waynesboro Primary substation.
Supporting Statement:	The Waynesboro 230/115 kV transformer overloads under contingency. The Wadley Primary – Waynesboro Primary 115 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	WIGGINS – WIGGINS 5TH AVENUE 115 KV T.L.
Description:	Reconductor the 3.75 mile, 266 ACSR, Wiggins SS – Wiggins 5th Ave 115 kV transmission line segment with 795 ACSR at 100°C.
Supporting Statement:	The Wiggins – Wiggins 5th Avenue 115 kV transmission line overloads under contingency.
In-Service Year:	2020
Project Name:	BELLEVILLE – NORTH BREWTON 230 KV T.L.
Description:	Construct approximately 15 miles of 230 kV transmission line from Belleville to North Brewton TS with 1351 ACSS at 200°C.
Supporting Statement:	The Barry – McIntosh 115 kV transmission line overloads under contingency.
In-Service Year:	2020
Project Name:	BRUNSWICK – ST SIMONS 115 KV T.L.
Description:	Reconductor approximately 2.3 miles along the Brunswick – Stonewall Street section of the Brunswick – St. Simons 115 kV transmission line using 795 ACSR at 100°C. Replace three 600 A switches at Brunswick with 1200 A switches.
Supporting Statement:	The Brunswick – St. Simons 115 kV transmission line overloads under contingency.
In-Service Year:	2020
Project Name:	DANIEL SIDING – LITTLE OGEECHEE 115 KV T.L.
Description:	Reconductor approximately 9.6 miles of the Daniel Siding – Little Ogeechee section of the Hinesville Primary – Little Ogeechee 115 kV transmission line with bundled (2) 397 ACSS at 160°C.
Supporting Statement:	The Daniel Siding – Little Ogeechee 115 kV transmission line overloads under contingency.

In-Service Year:	2020
Project Name:	EAST POINT – CAMP CREEK 115 KV T.L.
Description:	Rebuild the 397 ACSR portion of the East Point to Ben Hill tap section of the East Point – Camp Creek 115 kV transmission line with 1351 ASCR at 100°C at 230 kV specifications. Replace the existing 600 A switches at East Point with 2000 A switches.
Supporting Statement:	The East Point to Ben Hill tap section of the East Point – Camp Creek 115 kV transmission line overloads under contingency.
In-Service Year:	2020
Project Name:	EAST POINT – WILLINGHAM DRIVE 115 KV T.L.
Description:	Reconductor approximately 2.7 miles of existing 636 ACSR 115 kV transmission line along the East Point – Willingham Drive 115 kV circuit with 1033 ACSR at 100°C.
Supporting Statement:	The East Point – East Point #4 section of the East Point – Willingham Drive 115 kV transmission line overloads under contingency.
In-Service Year:	2020
Project Name:	FIFE 115 KV SUBSTATION
Description:	Install a 115 kV, 35 MVAR capacitor bank at the Fife substation.
Supporting Statement:	Additional voltage support is needed in the Fife area under contingency.
In-Service Year:	2020
Project Name:	HOLMES CREEK SUBSTATION
Description:	Install a 90 MVAR 230 kV filtered capacitor bank at Holmes Creek.
Supporting Statement:	Additional voltage support is needed in the Holmes Creek area.

In-Service Year:	2020
Project Name:	JACK MCDONOUGH – WEST MARIETTA (WHITE) 115 KV T.L.
Description:	Reconductor approximately 4.0 miles of 115 kV transmission line from the Plant McDonough to King Springs Road with 1033 ACSR at 100°C. Replace the 750 AAC jumpers at King Springs Road with 1590 AAC.
Supporting Statement:	The Jack McDonough – King Springs Road transmission line overloads under contingency.
In-Service Year:	2020
Project Name:	MCINTOSH SUBSTATION
Description:	Replace the existing 280 MVA, 230 / 115 kV transformer at McIntosh with a 400 MVA, 230 / 115 kV transformer.
Supporting Statement:	The McIntosh 230 / 115 kV transformer overloads under contingency.
In-Service Year:	2020
Project Name:	NORTH BREWTON T.S. – NORTH BREWTON D.S. 115 KV T.L.
Description:	Construct approximately 6.0 miles of 115 kV transmission line from North Brewton T.S. – North Brewton D.S. with 795 ACSS at 100°C.
Supporting Statement:	The North Brewton TS – Brewton Tap 115 kV transmission line overloads under contingency.
In-Service Year:	2020
Project Name:	SHARON SPRINGS 230/115 KV PROJECT
Description:	Construct a new 6.6 mile, 230 kV transmission line from Cumming to Sharon Springs with 1351 ACSR at 100°C. Install a 230/115 kV, 300 MVA transformer with two 115 kV breakers at Sharon Springs distribution substation. Terminate 115 kV lines from Hopewell and Suwanee. Install a 230 kV breaker in the Cumming Substation and terminate 230 kV transmission line to Sharon Springs.
Supporting Statement:	The Suwanee – Old Atlanta Road section of the transmission line overloads under contingency. The Hopewell – Brandywine section of the transmission line also overloads under contingency.

In-Service Year:	2020
Project Name:	TIGER CREEK – BRANCH (B/W) 230 KV T.L.
Description:	Install 230 kV 2% series reactors, removed from East Social Circle, at Tiger Creek on the Branch Black and White 230 kV transmission lines.
Supporting Statement:	The Branch – Tiger Creek 230 kV transmission lines overload under contingency.
In-Service Year:	2021
Project Name:	ANTHONY SHOALS – WASHINGTON 115 KV T.L.
Description:	Rebuild approximately 15.1 miles along the Anthony Shoals – Buckhead Point – Double Branches Tap 115 kV transmission line sections with 795 ACSR at 100°C. Replace the line switch at Delhi Tap with a 2000 A switch.
Supporting Statement:	The Anthony Shoals – Buckhead Point – Double Branches Tap 115 kV transmission line overloads under contingency.
In-Service Year:	2021
Project Name:	DANIEL – MOSS POINT EAST 230 KV T.L.
-	
Description:	Install a 2% series line reactor on the Moss Point East – North Theodore 230 kV transmission line.
-	
Description: Supporting	transmission line. The Daniel – Moss Point East 230 kV and the Moss Point East – North Theodore 230 kV
Description: Supporting Statement: In-Service	transmission line. The Daniel – Moss Point East 230 kV and the Moss Point East – North Theodore 230 kV transmission lines overload under contingency.
Description: Supporting Statement: In-Service Year:	transmission line. The Daniel – Moss Point East 230 kV and the Moss Point East – North Theodore 230 kV transmission lines overload under contingency. 2021

In-Service Year:	2021
Project Name:	POSSUM BRANCH – YATES 115 KV T.L.
Description:	Reconductor approximatley 11 miles along the Possum Branch – Yates 115 kV transmission line with 1351 ACSR at 100°C.
Supporting Statement:	The Possum Branch – Yates 115 kV transmission line overloads under contingency.
In-Service Year:	2022
Project Name:	BARRY – CHICKASAW 230 KV T.L.
Description:	Reconductor the 18.6 mile Barry – Chickasaw 230 kV transmission line with bundled (2) 795 ACSS at 200°C.
Supporting Statement:	The Barry – Chickasaw 230 kV transmission line overloads under contingency.
In-Service Year:	2022
Project Name:	BRENTWOOD – SCENIC HILLS #2 115 KV T.L.
Description:	Reconductor 4.8 miles of existing 1033 ACSR 115 kV transmission line with 1033 ACSS at 200°C from Brentwood to Scenic Hills 115 kV #2 transmission line.
Supporting Statement:	The Brentwood – Scenic Hills #2 115 kV transmission line overloads under contingency.
In-Service Year:	2022
Project Name:	MILLER – BOYLES 230 KV T.L.
Description:	Upgrade approximately 17.9 miles along the Miller – Boyles 230 kV transmission line to 125°C operation.
Supporting Statement:	The Miller – Boyles 230 kV transmission line overloads under contingency.
In-Service Year:	2022
Project Name:	SHOAL RIVER SUBSTATION
Description:	Install a 2nd +/- 100 MVAR SVC at Shoal River substation.
Supporting Statement:	Additional voltage support is needed in the Shoal River area.

In-Service Year:	2023
Project Name:	ARNOLD MILL – HOPEWELL 230 KV T.L.
Description:	Construct approximately 14.7 miles of 230 kV transmission line from Arnold Mill to Hopewell. Convert Batesville Road and Birmingham substations from 115 kV highside to 230 kV highside. Install one new 230 kV breaker at Hopewell and three new 230 kV breakers at Arnold Mill.
Supporting Statement:	The Holly Springs – Hopewell 115 kV transmission line overloads under contingency. Also, additional voltage support is needed at Windward under contingency.
In-Service Year:	2023
Project Name:	AULTMAN ROAD – BONAIRE 115 KV T.L.
Description:	Reconductor approximately 2.0 miles along the Sleepy Hollow – Peach Blossom 115 kV transmission line section of the Aultman Road – Bonaire 115 kV transmission line with 795 ACSR at 100°C.
Supporting Statement:	The Bonaire – Peach Blossom 115 kV transmission line section overloads under contingency.
In-Service Year:	2023
Project Name:	AULTMAN ROAD – DORSETT 115 KV T.L.
Description:	Upgrade approximately 2.2 miles along the Aultman Road – Northrop Junction section of the Aultman Road – Dorsett 115 kV transmission line to 100°C operation.
Supporting Statement:	The Aultman Road – Dorsett 115 kV transmission line overloads under contingency.
In-Service Year:	2023
Project Name:	AUSTIN DRIVE – MORROW 115 KV T.L.
Description:	Reconductor approximately 2.0 miles of existing 795 ACSR with 795 ACSS at 200°C along the Morrow – Ellenwood section of the Austin Drive – Morrow 115 kV transmission line. Replace switches and jumpers at Ellenwood and Morrow.
Supporting Statement:	The Morrow – Ellenwood section of the Austin Drive – Morrow 115 kV transmission line also overloads under contingency.

In-Service Year:	2023
Project Name:	BRUNSWICK – EAST BEACH 115 KV T.L.
Description:	Reconductor approximatley 1.7 miles along the Brunswick – East Beach 115 kV transmission line with 795 ACSR at 100°C.
Supporting Statement:	The Brunswick – East Beach transmission line overloads under contingency.
In-Service Year:	2023
Project Name:	CLAY – LEEDS 230 KV T.L.
Description:	Upgrade approximately 17.3 miles along the Clay – Leeds 230 kV transmission line to 125°C operation.
Supporting Statement:	The Clay – Leeds 230 kV transmission line overloads under contingency.
In-Service Year:	2023
	2023 DOTHAN – WEBB 115 KV T.L.
Year:	
Year: Project Name:	DOTHAN – WEBB 115 KV T.L. Reconductor approximately 6.7 miles of 115 kV transmission line from Webb – ECI
Year: Project Name: Description: Supporting	DOTHAN – WEBB 115 KV T.L. Reconductor approximately 6.7 miles of 115 kV transmission line from Webb – ECI Webb – Dothan with 1351 ACSS at 160°C.
Year: Project Name: Description: Supporting Statement: In-Service	DOTHAN – WEBB 115 KV T.L. Reconductor approximately 6.7 miles of 115 kV transmission line from Webb – ECI Webb – Dothan with 1351 ACSS at 160°C. The Dothan – Webb 115 kV transmission line overloads under contingency.
Year: Project Name: Description: Supporting Statement: In-Service Year:	DOTHAN – WEBB 115 KV T.L. Reconductor approximately 6.7 miles of 115 kV transmission line from Webb – ECI Webb – Dothan with 1351 ACSS at 160°C. The Dothan – Webb 115 kV transmission line overloads under contingency.

In-Service Year:	2023
Project Name:	EVANS PRIMARY – THOMSON PRIMARY 115 KV T.L.
Description:	Reconductor approximately 4.2 miles of 115 kV transmission line along the Evans – Patriots Park section of the Evans Primary – Thomson Primary 115 kV transmission line with 100°C 795 ACSR. Replace the 100°C 336 ACSR jumper with 100°C 795 ACSR at Evans Primary.
Supporting Statement:	The Evans Primary – Thomson Primary 115 kV transmission line overloads under contingency.
In-Service Year:	2023
Project Name:	HARRIS – NORTH SELMA 230 KV T.L.
Description:	Upgrade approximately 26 miles of the Autaugaville (Harris SS) – North Selma 230 kV transmission line from 75°C to 100°C Operation.
Supporting Statement:	The Harris – North Selma 230 kV transmission line overloads under contingency.
In-Service Year:	2023
Project Name:	HOPEWELL 230 KV SUBSTATION
Description:	Install a motor-operated switch to provide a means of bypassing the 230 kV series reactors on the Hopewell – McGrau Ford 230 kV transmission line.
Supporting Statement:	The Norcross – Ocee 230 kV transmission line overloads under contingency.
In-Service Year:	2023
Project Name:	MCCONNELL ROAD – SOUTH ACWORTH 115 KV T.L.
Description:	Reconductor approximately 4.7 miles of 115 kV transmission line from Mcconnell Road – South Acworth with 1351 ACSR at 100°C.
Supporting Statement:	The Mcconnell Road – South Acworth 115 kV transmission line overloads under contingency.

In-Service Year:	2023
Project Name:	MCMANUS – WEST BRUNSWICK 115 KV (BLACK) T.L.
Description:	Construct approximately 8.0 miles of new 795 ACSR 115 kV transmission line from West Brunswick to a new point that taps the McManus – Darien 115 kV transmission line.
Supporting Statement:	Additional voltage support is needed in the Riceboro area under contingency.
In-Service Year:	2023
Project Name:	NORCROSS – OCEE 230 KV T.L
Description:	Reconductor approximately 3.7 miles along the Norcross – Ocee 230 kV line with 1033 ACSS 160°C.
Supporting Statement:	The Norcross – Ocee 230 kV transmission line overloads under contingency.
In-Service Year:	2023
Project Name:	SINCLAIR DAM – WARRENTON 115 KV T.L.
Description:	Reconductor approximately 17.4 miles of 115 kV transmission line along the Sinclair Dam – Warrenton 115 kV transmission line with 795 ACSR at 100°C.
Supporting Statement:	The Sinclair Dam – Warreton 115 kV transmission line overloads under contingency.
In-Service Year:	2023
Project Name:	SOUTH COWETA – SOUTH GRIFFIN 115 KV T.L.
Description:	Reconductor approximately 5.0 miles of 115 kV transmission line along the South Coweta – Brooks section of the South Coweta – South Griffin 115 kV transmission line with 1033 ACSR.
Supporting Statement:	The South Coweta – Brooks section of the South Coweta – South Griffin 115 kV transmission line overloads under contingency.

In-Service Year:	2024
Project Name:	BRUNSWICK – EAST BEACH (SEA ISLAND) 115 KV T.L.
Description:	Upgrade approximately 1.6 miles along the Frederica tap – Sea Island section of the Brunswick – East Beach 115 kV transmission line to 75°C operation.
Supporting Statement:	The Brunswick – East Beach 115 kV transmission line overloads under contingency.
In-Service Year:	2024
Project Name:	BULL CREEK – FIRST AVENUE 115 KV T.L.
Description:	Reconductor approximately 4.7 miles along the Bull Creek – First Avenue 115 kV transmission line with ACSS at 160°C.
Supporting Statement:	The Bull Creek – First Avenue 115 kV transmission line overloads under contingency.
In-Service Year:	2024
Project Name:	BULL CREEK – VICTORY DRIVE 115 KV T.L.
Description:	Reconductor approximately 2.5 miles along the Bull Creek – Victory Drive 115 kV transmission line with 795 ACSR at 100°C.
Supporting Statement:	The Bull Creek – Victory Drive 115 kV transmission line overloads under contingency.
In-Service Year:	2024
Project Name:	CHICKASAW – BLAKELY ISLAND 115 KV T.L.
Description:	Reconductor approximately 0.6 miles of 115 kV transmission line from Kimberly Clark – Blakely Island with 1033 ACSS at 160°C.
Supporting Statement:	The Chickasaw – Blakely Island 115 kV transmission line overloads under contingency.
In-Service Year:	2024
Project Name:	CONYERS – CORNISH MOUNTAIN 115 KV T.L.
Description:	Reconductor approximately 4.8 miles along the Conyer – Cornish Mounain 115 kV transmission line with 795 ACSS at 160°C.
Supporting Statement:	The Conyers – Cornish Mountain 115 kV transmission line overloads under contingency.

In-Service Year:	2024
Project Name:	FAYETTE – GORGAS 161 KV T.L.
Description:	Rebuild approximately 36.7 miles along the Fayette – Gorgas 161 kV transmission line with 795 ACSS at 160°C.
Supporting Statement:	The Fayette – Gorgas 161 kV transmission line overloads under contingency.
In-Service Year:	2024
Project Name:	FIRST AVENUE – NORTH COLUMBUS 115 KV T.L.
Description:	Reconductor approximately 0.9 miles along the First Avenue – North Columbus 115 kV transmission line with 795 ACSR at 100°C.
Supporting Statement:	The North Columbus – First Avenue 115 kV transmission line overloads under contingency.
In-Service Year:	2024
	2024 FIRST AVENUE SUBSTATION
Year:	
Year: Project Name:	FIRST AVENUE SUBSTATION Replace the First Avenue 300 MVA, 230/115 kV transformer #6 with a 400 MVA
Year: Project Name: Description: Supporting	FIRST AVENUE SUBSTATION Replace the First Avenue 300 MVA, 230/115 kV transformer #6 with a 400 MVA transformer.
Year: Project Name: Description: Supporting Statement: In-Service	FIRST AVENUE SUBSTATION Replace the First Avenue 300 MVA, 230/115 kV transformer #6 with a 400 MVA transformer. The First Avenue 230/115 kV transformer #6 overloads under contingency.
Year: Project Name: Description: Supporting Statement: In-Service Year:	FIRST AVENUE SUBSTATION Replace the First Avenue 300 MVA, 230/115 kV transformer #6 with a 400 MVA transformer. The First Avenue 230/115 kV transformer #6 overloads under contingency.

	In-Service Year:	2024
Pr	oject Name:	RUSSELL – ATHENA – BETHABARA 230 KV T.L.S
	Description:	Construct approximately 65 miles of 230 kV transmission line from Russel Dam to Athena with bundled (2) 1351 ACSR at 100°C and from Athena to Bethabara with 1351 ACSR at 100°C.
	Supporting Statement:	The Russell – East Watkinsville 230 KV transmission line overloads under contingency.
	In-Service	
	Year:	2024
Pr		2024 UNION CITY – YATES 230 KV WHITE T.L.
Pr	Year:	

In-Service Year:	2015
Project Name:	JACKSBORO, TN 161 KV SUBSTATION
Description:	Install capacitor bank of 5, 9.0 MVAR capacitors at new switching station between the Jacksboro, TN and Caryville, TN delivery points.
Supporting Statement:	Additional voltage support needed in the Caryville, TN area under contingency.
In-Service Year:	2015
Project Name:	WILSON – OAKLAND 161 KV T.L.
Description:	Reconductor approximately 12.3 miles along the Wilson – Oakland 161 kV transmission line with 795 ACSR at 100°C.
Supporting Statement:	The Wilson – Oakland 161 kV transmission line overloads under contingency.
In-Service Year:	2015
Project Name:	SHOALS – WOODMONT 161 KV T.L.
Description:	Reconductor approximately 3.7 miles along the Shoals – Woodmont 161 kV transmission line with 636 ACSS at 121°C.
Supporting Statement:	The Shoals – Woodmont 161 kV transmission line section overloads under contingency.
In-Service Year:	2015
Project Name:	WIDOWS CREEK FP – REESE FERRY 161 KV
Description:	Reconductor approximately 5 miles of transmission line between the Widows Creek Fossil Plant and Reese Ferry 161 kV substations with 795 ACSS at 135°C.
Supporting Statement:	During generation sensitivities, the Widows Creek – Reese Ferry section of the Widows Creek – Raccoon Mountain 161 kV transmission line overloads under contingency.
In-Service Year:	2015
Project Name:	HIWASSEE 500 KV SUBSTATION
Description:	Install a 500/161 kV transformer at Hiwassee substation.
Supporting Statement:	Nuclear Offsite power can be affected at the Sequoyah Nuclear Plant under contingency.

In-Service Year:	2015
Project Name:	SPRING CREEK – NANCE 161 KV T.L.
Description:	Reconductor approximately 2.0 miles of transmission line between the Spring Creek and Nance 161 kV substations using 636 ACSS at 155°C.
Supporting Statement:	The Spring Creek – Nance 161 kV transmission line overloads under contingency.
In-Service Year:	2015
Project Name:	TRINITY – CADDO 161 KV T.L.
Description:	Reconductor approximately 3.5 miles of transmission line between the Trinity and Caddo 161 kV substations using 954 ACSR at 100°C.
Supporting Statement:	The Trinity – Caddo 161 kV transmission line overloads under contingency.
In-Service Year:	2015
Project Name:	WIDOWS CREEK FP – NICKAJACK 161 KV T.L.
Description:	Upgrade approximately 13 miles of the Widows Creek Fossil Plant – Nickajack Hydro Plant 161 kV transmission line.
Supporting Statement:	The Widows Creek – Nickajack 161 kV transmission line overloads under contingency.
In-Service Year:	2015
Project Name:	VOLUNTEER – E. KNOX 161 KV T.L.
Description:	Construct approximately 13.5 miles of 161 kV transmission line from Volunteer to E. Knox with 954 ACSS at 150°C.
Supporting Statement:	The Volunteer – Knox #2 161 kV transmission line becomes overloaded under contingency and additional voltage support is needed in the E. Knox area under contingency.

In-Service Year:	2015
Project Name:	VOLUNTEER – N. KNOX #1 161 KV T.L.
Description:	Reconductor approximately 12.5 miles of 161 kV transmission line between the Volunteer and N. Knox 161 kV substations with 795 ACSS at 123°C.
Supporting Statement:	The Volunteer – N. Knox 161 kV transmission line overloads under contingency.
In-Service Year:	2016
Project Name:	DAVIDSON 500 KV SUBSTATION
Description:	Install a +300/-150 MVAR SVC at the Davidson, TN 500 kV substation.
Supporting Statement:	Retirement of Johnsonville FP Units 1-10 results in the need of dynamic reactive support in the area.
In-Service Year:	2016
Project Name:	CROSS PLAINS 161 KV SUBSTATION
Description:	Install a capacitor bank of 4, 9.0 MVAR capacitors at the Cross Plains, TN 161 kV substation.
Supporting Statement:	Additional voltage support needed in the Cross Plains, TN area under contingency.
In-Service Year:	2016
Project Name:	EAST BOWLING GREEN 161 KV SUBSTATION
Description:	Install a capacitor bank of 4, 45.0 MVAR capacitors at the E. Bowling Green 161 kV substation.
Supporting Statement:	Additional voltage support needed in the Bowling Green, KY area under contingency.
In-Service Year:	2016
Project Name:	PARADISE FP SUBSTATION
Description:	Install a 161 kV capacitor bank of 4, 63.0 MVAR capacitors at Paradise FP Substation.
Supporting Statement:	Additional voltage support needed in the Paradise, KY area under contingency.

In-Service Year:	2016
Project Name:	HOPKINSVILLE 161 KV SUBSTATION
Description:	Install a capacitor bank of 5, 54.0 MVAR capacitors at Hopkinsville 161 kV substation.
Supporting Statement:	Additional voltage support needed in the Hopkinsville, KY area under contingency.
In-Service Year:	2017
Project Name:	MAYFIELD – MURRAY 161 KV T.L.
Description:	Upgrade approximately 21.2 miles of the Mayfield – Murray 161 kV transmission line to 100°C operation.
Supporting Statement:	The Mayfield – Murray 161 kV transmission line overloads under contingency.
In-Service Year:	2017
Project Name:	ALCOA NORTH – NIXON ROAD 161 KV T.L.
Description:	Rebuild approximately 10.5 miles of the Alcoa North – Nixon Road 161 kV transmission line with 1590 ACSR at 100°C.
Supporting Statement:	The Alcoa Switching Station – Nixon Road 161 kV transmission line overloads under contingency.
In-Service Year:	2017
Project Name:	KINGSTON FP – EATON CROSSROADS 161 KV T.L.
Description:	Upgrade approximately 20.6 miles of the Kingston Fossil Plant – Eaton Crossroads 161 kV transmission line to 100°C operation.
Supporting Statement:	The Kingston – Eaton Cross Roads 161 kV transmission line overloads under contingency.
In-Service Year:	2017
Project Name:	KINGSTON FP – OAK RIDGE 161 KV T.L.
Description:	Reconductor approximately 19.9 miles of the Kingston Fossil Plant – Oak Ridge 161 kV transmission line with 1272 ACSR at 100°C.
Supporting Statement:	The Kingston – Oak Ridge 161 kV transmission line overloads under contingency.

In-Service Year:	2017
Project Name:	RACCOON MOUNTAIN – MOCCASIN #2 161 KV T.L.
Description:	Reconductor approximately 3.3 miles of the Raccoon Mountain – Moccasin Bend #2 161 kV transmission line for 3000 A operation.
Supporting Statement:	The Raccoon Mountain – Mocassin Bend #2 161 kV transmission line overloads under contingency.
In-Service Year:	2017
Project Name:	SELMER – W. ADAMSVILLE 161 KV T.L.
Description:	Construct approximately 15 miles of 161 kV transmission line from Selmer to W. Adamsville with 954 ACSR at 100°C.
Supporting Statement:	Additional voltage support needed in the Bolivar, TN area under contingency.
In-Service Year:	2017
Project Name:	SHAWNEE – PADUCAH 161 KV T.L.
Description:	Reconductor approximately 13.2 miles of the Shawnee – Paducah 161 kV transmission line with 1272 ACSR at 100°C.
Description: Supporting Statement:	
Supporting	line with 1272 ACSR at 100°C.
Supporting Statement: In-Service	line with 1272 ACSR at 100°C. The Shawnee – Paducah 161 kV transmission line overloads under contingency.
Supporting Statement: In-Service Year:	line with 1272 ACSR at 100°C. The Shawnee – Paducah 161 kV transmission line overloads under contingency. 2017

In-Service Year:	2017
Project Name:	JOHNSONVILLE FP SUBSTATION
Description:	Install a capacitor bank of 5, 36.0 MVAR capacitors at the Johnsonville Fossil Plant substation.
Supporting Statement:	Retirement of Johnsonville FP Units 1-10 will result in the need for additional voltage support in the Johnsonville area.
In-Service Year:	2017
Project Name:	JOHNSONVILLE FP SUBSTATION
Description:	Reconfigure the Johnsonville Fossil Plant substation. Project includes the retermination of a transmission line and transformer, along with various breaker and terminal equipment modifications.
Supporting Statement:	Thermal overloads occur in the Columbia, TN and Bowling Green, KY areas under contingency.
In-Service Year:	2017
Project Name:	JOHNSONVILLE FP SUBSTATION
Description:	Install a 500/161 kV inter-tie transformer bank at the Johnsonville Fossil Plant substation.
Supporting Statement:	The retirement of Johnsonville units 1-10 requires the replacement of the 500/161 kV inter-tie transformer bank at Johnsonville.
In-Service Year:	2018
Project Name:	BLUFF CITY – ELIZABETHTON 161 KV T.L.
Description:	Construct approximately 12 miles of 161 kV transmission line from Bluff City to
	Elizabethton with 954 ACSR at 100°C.

In-Service Year:	2018
Project Name:	PLATEAU 500 KV SUBSTATION
Description:	Construct the Plateau 500 kV substation by looping in the Wilson – Roane 500 kV and West Cookeville – Rockwood 161 kV transmission lines.
Supporting Statement:	Thermal overload and need for additional voltage support in the Murfreesboro, TN and Knoxville, TN areas under contingency.
In-Service Year:	2018
Project Name:	SCOTTSBORO – HENAGAR 161 KV T.L.
Description:	Construct approximately 17.1 miles of new 161 kV transmission line to create the Scottsboro – Henagar 161 kV transmission line with 954 ACSR at 100°C.
Supporting Statement:	Multiple 161 kV transmission lines in the Ft. Payne, AL area overload under contingency and additional voltage support needed in the Ft. Payne area under contingency.
In-Service Year:	2018
Project Name:	NORTH DAVIDSON, TN 500 KV SUBSTATION
Description:	Construct a 500 kV substation in the North Davidson County, TN area connected to the Montgomery – Davidson 500 kV transmission line and multiple area 161 kV transmission lines.
Supporting Statement:	Thermal overloads and additional voltage support needed in the Nashville area under contingency.
In-Service Year:	2018
Project Name:	RED HILLS – LEAKE 161 KV T.L.
Description:	Construct approximately 60 miles of the new Red Hills – Leake 161 kV transmission line with 954 ACSR at 100°C.
Supporting Statement:	Multiple 161 kV transmission lines in the lower MS area overload under contingency and additional voltage support needed in the lower MS area under contingency.

In-Service Year:	2019
Project Name:	WIDOWS CREEK FP SUBSTATION
Description:	Install a 2nd Widows Creek 500/161 kV transformer.
Supporting Statement:	Multiple transmission lines overload and additional voltage support needed in the Huntsville, AL area under contingency.
In-Service Year:	2020
Project Name:	GALLATIN FP – GALLATIN PRIMARY #2 161 KV T.L.
Description:	Construct a 2nd 161 kV transmission line of approximately 5 miles between Gallatin Fossil Plant and the Gallatin Primary with 1590 ACSR at 100°C.
Supporting Statement:	The Gallatin – Cairo Bend 161 kV transmission line section overloads under contingency.
In-Service Year:	2020
Project Name:	GREAT FALLS HP 161 KV SUBSTATION
Description:	Install a capacitor bank of 5, 9.0 MVAR 161 kV capacitors at the Great Falls, TN hydro plant substation.
Supporting Statement:	Additional voltage support needed at the Murfreesboro Industrial Park under contingency.
In-Service Year:	2020
Project Name:	HOLLY SPRINGS, MS 161 KV SUBSTATION
Description:	Install a capacitor bank of 3, 27 MVAR capacitors at the Holly Springs, MS 161 kV switching station.
Supporting Statement:	Additional voltage support needed in the N. Haven, MS area under contingency.
In-Service Year:	2020
Project Name:	MILLER – OLIVE BRANCH #2 161 KV T.L.
Description:	Loop the Olive Branch – Payne Lane 161 kV transmission line into the Miller, MS 161 kV substation to create the Miller – Olive Branch #2 161 kV transmission line.
Supporting Statement:	Additional voltage support needed in the Olive Branch, MS area under contingency.

In-Service Year:	2020
Project Name:	OAKWOOD – CUMBERLAND 161 KV T.L.
Description:	Construct approximately 16 miles of 161 kV transmission line from Oakwood to Cumberland with 795 ACSR at 100°C.
Supporting Statement:	Additional voltage support needed in the Oakwood, TN area under contingency.
In-Service Year:	2022
Project Name:	UNION – CLAY 500 KV T.L.
Description:	Construct approximately 50 miles of the Union – Clay 500 kV transmission line using 3- bundled 954 ACSR at 100°C.
Supporting Statement:	Multiple transmission lines overload and additional voltage support needed in the MS area under contingency.
In-Service Year:	2023
Project Name:	PARADISE – BOWLING GREEN 161 KV T.L.
Description:	Upgrade the Paradise – Lost City section of the Paradise – Bowling Green 161 kV transmission line to 100°C. Reconductor the Lost City – Bowlilng green section of the Paradise – Bowling Green 161 kV transmission line with 954 ACSR at 100°C.
Supporting Statement:	The Paradise – Bowling Green 161 kV transmission line overloads under contingency.

Appendix 1: AECI BAA

The following information provides a more granular overview of the AECI BAA input assumptions and transmission expansion plan that are incorporated in the development of the SERTP regional transmission plan.

Table A1.1: 2014 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage (AECI BAA)

ΑΕСΙ ΒΑΑ	100-120	121-150	151-199	200-299	300-399	400-550
	kV	kV	kV	kV	kV	kV
Transmission lines – New			1.4			
(Circuit Mi.)			14			
Transmission Lines – Uprates ¹						
(Circuit Mi.)						
Transformers ² – New			2			
Transformers ² – Replacements			1			

¹A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line. ²The voltages shown represent the operating voltages on the high side terminals of the transformer

Table A1.2: Interface commitments¹ modeled in the SERTP Summer Peak models – AECI BAA

То	2015	2017	2019	2020	2022	2024
SPP	-796	-760	-759	-758	-757	-757
MISO	30	14	15	15	15	14
Total	-766	-746	-744	-743	-742	-743

¹A positive number represents a net export from the AECI BAA

2014

A detailed listing of the changes in generation assumptions within the AECI BAA throughout the ten (10) year planning horizon, including the year(s) in which they occur, is provided in Table A1.3 below. Table A1.4 provides a listing of generation assumptions based upon long-term, firm point-to-point commitments. The capacity (MW) values shown for each year reflect summer peak conditions. Table A1.5 provides a listing of all generators modeled in the 2015 Summer Peak powerflow model.

Table A1.3:	Table A1.3: Changes in Generation Assumptions Based Upon LSEs – AECI BAA											
Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024		
	No changes in generation assumptions throughout the planning horizon											

Table A1.4: Generation Assumptions Based Upon Expected Long-term, Firm Point-to-Point Commitments – AECI BAA

Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
				None						

Table A1.5: Generating Units Modeled in the 2015 Summer Peak Powerflow Model – AECI BAA

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Albany City	1	300269	2ALBNCTY	4.7
Atchison	1	300009	1ACHSNG1	50.4
Bethany City	1	300219	2BETHCT	7.6
Butler East	1	300690	2BUTLERE	11.6
Chillicothe City	1	300214	2CHILCTY	40.0
Chillicothe City	2	300214	2CHILCTY	40.0
Chillicothe City B	3	301364	2CHILCTYB	11.0
Chouteau	1	300020	1CHOTCT4	149.1
Chouteau	1	300021	1CHOTCT5	149.1
Chouteau	1	300024	1CHOTST6	154.9

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Chouteau	1	300031	1CHOTST3	154.9
Chouteau	1	300032	1CHOTCT1	149.1
Chouteau	1	300033	1CHOTCT2	149.1
City of Mt Pleasant Park	1	300443	2MTPLCT	24.0
Clyde	1	300273	1CLYDEG1	50.4
Dell	1	300015	1SGPDEL	239.1
Dell	1	300016	1G1GPDEL	169.9
Dell	1	300017	1G2GPDEL	169.9
El Dorado City	1	300807	2ELDRCTY	5.5
Essex	1	300029	1ESSEXG	107.4
Gallatin	1	300198	2GALLTN	7.0
Gentry Generation	1	300008	1GNTRYG1	56.7
Holden	1	300012	1HOLDNG1	107.0
Holden	1	300013	1HOLDNG2	108.0
Holden	1	300014	1HOLDNG3	108.5
Lamar	1	301363	1LAMRLNDFL	1.6
Lamar	2	301363	1LAMRLNDFL	1.6
Lamar City South	1	300652	2LAMRCTS	6.1
Macon	1	300405	2MCNPLT	13.8
Macon East #3	1	300399	2MACN3E	7.2
Memphis City	1	300423	2MEMCTY	9.2
Monroe City	1	300343	2MONRCT	11.9
New Madrid	1	300006	1NM G1	572.0
New Madrid	1	300007	1NM G2	574.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Nodaway	1	300025	1NDWYG1	96.0
Nodaway	1	300026	1NDWYG2	97.0
Osage	1	301382	10SAGEWINDG1	150.0
Palmyra City	1	300353	2PALMCTY	12.5
Rockport	1	300319	1ROCKPTG1	4.8
Rockport	2	300319	1ROCKPTG1	5.0
Shelbina	1	300407	2SHELBN	14.7
St Francis	1	300010	1STFRG1	230.7
St Francis	1	300011	1STFRG2	239.3
Stanberry	1	300267	2STANBR	3.6
Ten Mile	1	300456	2TENMILE	8.5
Thomas Hill	1	300001	1THLG1	166.0
Thomas Hill	1	300002	1THLG2	270.0
Thomas Hill	1	300003	1THLG3	715.0
Trenton City	1	300238	2TRENCT	30.1
Unionville	1	300022	1UNION1	22.0
Unionville	1	300023	1UNION2	22.0
Unionville (MOPEP) 1	1	300288	1UNONVL	7.9
Vandalia City	1	300582	2VANCTY	6.3
West Plains City	1	300027	1WPLCTG1	22.0
West Plains City	1	300028	1WPLCTG2	22.0
Winslow	1	301358	1WINSLOWG1	30.0
Winslow	2	301358	1WINSLOWG1	120.0

Appendix 2: Duke Energy Carolinas BAA

The following information provides a more granular overview of the Duke Energy Carolinas BAA input assumptions and transmission expansion plan that are incorporated in the development of the SERTP regional transmission plan.

Table A2.1: 2014 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage (Duke Energy Carolinas BAA)

6			<i>y</i> 1	5 1 0	0 (05
Duke Energy Carolinas BAA	100-120	121-150	151-199	200-299	300-399	400-550
	kV	kV	kV	kV	kV	kV
Transmission lines – New						
(Circuit Mi.)						
Transmission Lines – Uprates ¹	79			24		
(Circuit Mi.)	79			24		
Transformers ² – New				4		
Transformers ² – Replacements				2		

¹A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line. ²The voltages shown represent the operating voltages on the high side terminals of the transformer

Table A2.2: Interface commitments¹ modeled in the SERTP Summer Peak models – Duke Energy Carolinas BAA

-				0,		
То	2015	2017	2019	2020	2022	2024
Duke Progress East	1018	1003	1074	1058	1114	1069
SCE&G	-2	-2	-2	-2	-2	-2
SCPSA	-577	-333	-190	-198	-214	-229
Southern	-246	-246	-246	-246	-246	-246
PJM	48	48	48	48	48	48
SEPA	-268	-268	-268	-268	-268	-268
Total	-27	202	416	392	432	372

¹A positive number represents a net export from the Duke Energy Carolinas BAA

Southeastern Regional

2014

A detailed listing of the changes in generation assumptions within the Duke Energy Carolinas BAA throughout the ten (10) year planning horizon, including the year(s) in which they occur, is provided in Table A2.3 below. Furthermore, supplemental information regarding noteworthy generation expansion and retirements/decertifications included in the 2014 series set of SERTP powerflow models is provided below, while Table A2.4 provides a listing of generation assumptions based upon long-term, firm point-to-point commitments. The capacity (MW) values shown for each year reflect summer peak conditions. Table A2.5 provides a listing of all generators modeled in the 2015 Summer Peak powerflow model.

Table A2.3: Changes in Generation Assumptions Based Upon LSEs – Duke Energy Carolinas BAA

Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Lee 1	0	0	0	0	0	0	0	0	0	0
Lee 2	0	0	0	0	0	0	0	0	0	0
Lee CC	0	0	0	776	776	776	776	776	776	776

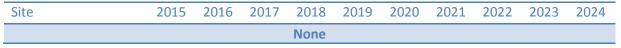
Noteworthy Generation Expansion

• Duke Energy Carolinas is constructing a new 776 MW combined cycle unit at Lee with scheduled commercial operation in 2018.

Noteworthy Generation Retirements/Decertifications

• None

Table A2.4: Generation Assumptions Based Upon Expected Long-term, Firm Point-to-Point Commitments – Duke Energy Carolinas BAA



2014

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Allen	5	307853	1ALLEN 5	159.2
Allen	L	307853	1ALLEN 5	130.8
Allen	1	307854	1ALLEN 1	174.0
Allen	3	307855	1ALLEN 3	149.0
Allen	L	307855	1ALLEN 3	122.0
Allen	2	307863	1ALLEN 2	172.0
Allen	4	307864	1ALLEN 4	146.1
Allen	L	307864	1ALLEN 4	127.9
Apple	1	308424	APPLEINV	20.0
Bad Creek	1	306207	1BADCRK12	350.0
Bad Creek	2	306207	1BADCRK12	350.0
Bad Creek	3	306208	1BADCRK34	350.0
Bad Creek	4	306208	1BADCRK34	350.0
Bear Creek	1	308517	1BEARCRK	9.0
Belews Creek	1	308377	1BELEWS1	637.0
Belews Creek	L	308377	1BELEWS1	500.0
Belews Creek	2	308378	1BELEWS2	637.0
Belews Creek	L	308378	1BELEWS2	500.0
Bridgewater	1	308079	1BRIDGEW	15.5
Bridgewater	2	308920	1BRIDGEW2	15.5
Broad River Energy	4	306222	1BRECG4	175.0
Broad River Energy	5	306224	1BRECG5	175.0
Broad River Energy	1	306314	1BRECG1	175.0

Table A2.5: Generating Units Modeled in the 2015 Summer Peak Powerflow Model – Duke Energy Carolinas BAA

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Broad River Energy	2	306315	1BRECG2	175.0
Broad River Energy	3	306316	1BRECG3	175.0
Buck	11	308090	1BUCKG11	163.5
Buck	12	308091	1BUCKG12	163.5
Buck	10	308092	1BUCKS10	323.0
Buzzard Roost	1	307037	1BUZZHYD	4.3
Buzzard Roost	2	307037	1BUZZHYD	4.3
Buzzard Roost	3	307037	1BUZZHYD	4.3
Catawba	1	307856	1CATAWBA1	1180.0
Catawba	2	307857	1CATAWBA2	1160.0
Cedar Cliff	1	308516	1CEDARCL	6.4
Cedar Creek	1	307858	1CEDAR CK	13.0
Cedar Creek	2	307858	1CEDAR CK	15.0
Cedar Creek	3	307858	1CEDAR CK	15.0
Cherokee	1	306326	1CHEROKES	29.0
Cherokee	1	306325	1CHEROKEG	57.0
Cleveland County	1	308607	1CLEVELAND1	178.0
Cleveland County	2	308608	1CLEVELAND2	178.0
Cleveland County	3	308609	1CLEVELAND3	178.0
Cleveland County	4	308610	1CLEVELAND4	178.0
Cliffside	5	307610	1CLIFSID5	566.0
Cliffside	6	308789	1CLFSDGEN	850.0
Cowans Ford	1	308227	1COWANS1	81.0
Cowans Ford	2	308237	1COWANS2	81.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Cowans Ford	3	308238	1COWANS3	81.0
Cowans Ford	4	308239	1COWANS4	81.0
Dan River	8	308603	1DNRVRG8	163.5
Dan River	9	308604	1DNRVRG9	163.5
Dan River	7	308605	1DNRVRS7	323.0
Dearborn	1	307859	1DEARBN1	14.0
Dearborn	2	307860	1DEARBN23	14.0
Dearborn	3	307860	1DEARBN23	14.0
Fishing Creek	1	307861	1FISHNG C	11.0
Fishing Creek	2	307861	1FISHNG C	9.5
Fishing Creek	3	308912	1FISHNG C2	9.5
Fishing Creek	4	308912	1FISHNG C2	11.0
Fishing Creek	5	308912	1FISHNG C2	8.0
Gaston Shoals	1	307466	1GAST HY	4.7
Great Falls	1	307702	1GTFALLS	3.0
Great Falls	2	307702	1GTFALLS	3.0
Great Falls	3	307702	1GTFALLS	3.0
Great Falls	4	307702	1GTFALLS	3.0
Great Falls	5	307702	1GTFALLS	3.0
Great Falls	6	307702	1GTFALLS	3.0
Great Falls	7	307702	1GTFALLS	3.0
Great Falls	8	307702	1GTFALLS	3.0
Jocassee	1	307370	1JOCASSE1	170.0
Jocassee	2	307371	1JOCASSE2	170.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Jocassee	3	307372	1JOCASSE3	195.0
Jocassee	4	307373	1JOCASSE4	195.0
Keowee	1	307195	1KEOWEE	80.0
Keowee	2	308880	1KEOWEE2	80.0
Lee	3	307197	1LEE 3	168.0
Lee	7	307198	1LEE CT7	43.0
Lee	8	307882	1LEE CT8	43.0
Lincoln	1	306509	1LINCLN1	79.0
Lincoln	2	306510	1LINCLN2	79.0
Lincoln	3	306511	1LINCLN3	79.0
Lincoln	4	306512	1LINCLN4	79.0
Lincoln	5	306513	1LINCLN5	79.0
Lincoln	6	306514	1LINCLN6	79.0
Lincoln	7	306515	1LINCLN7	79.0
Lincoln	8	306516	1LINCLN8	79.0
Lincoln	9	306517	1LINCLN9	79.0
Lincoln	А	306518	1LINCLN10	79.0
Lincoln	В	306519	1LINCLN11	79.0
Lincoln	С	306520	1LINCLN12	79.0
Lincoln	D	306521	1LINCLN13	79.0
Lincoln	Е	306522	1LINCLN14	79.0
Lincoln	F	306523	1LINCLN15	79.0
Lincoln	G	306524	1LINCLN16	79.0
Lookout Tie	1	308080	1LOOKOUT	9.3

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Lookout Tie	2	308080	1LOOKOUT	9.3
Lookout Tie	3	308080	1LOOKOUT	9.3
Marshall	1	308081	1MARSHAL1	181.0
Marshall	L	308081	1MARSHAL1	181.0
Marshall	3	308082	1MARSHAL3	660.0
Marshall	2	308087	1MARSHAL2	182.0
Marshall	L	308087	1MARSHAL2	182.0
Marshall	4	308088	1MARSHAL4	660.0
McGuire	1	308228	1MCGUIRE1	1185.0
McGuire	2	308229	1MCGUIRE2	1185.0
Mill Creek	1	306082	1MILLCKG1	76.0
Mill Creek	2	306083	1MILLCKG2	76.0
Mill Creek	3	306084	1MILLCKG3	76.0
Mill Creek	4	306086	1MILLCKG4	76.0
Mill Creek	5	306087	1MILLCKG5	76.0
Mill Creek	6	306088	1MILLCKG6	76.0
Mill Creek	7	306090	1MILLCKG7	76.0
Mill Creek	8	306091	1MILLCKG8	76.0
Mountain Island	4	308179	1MT ISLE	17.0
Mountain Island	1	308179	1MT ISLE	14.0
Mountain Island	2	308179	1MT ISLE	14.0
Mountain Island	3	308179	1MT ISLE	17.0
Nantahala	1	308558	1NANTAHA	51.0
Ninety-Nine Islands	1	307749	1NINETY9	15.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Oconee	1	307199	10CONEE1	863.0
Oconee	3	307200	10CONEE3	863.0
Oconee	2	307210	10CONEE2	863.0
Oxford	1	308083	10XFORD	20.0
Oxford	2	308083	10XFORD	20.0
Rhodhiss	1	308084	1RHODHIS	9.0
Rhodhiss	2	308084	1RHODHIS	11.0
Rhodhiss	3	308084	1RHODHIS	9.0
Rockingham County	4	306828	1ROCKHMG04	165.0
Rockingham County	5	306829	1ROCKHMG05	165.0
Rockingham County	1	306831	1ROCKHMG01	165.0
Rockingham County	2	306832	1ROCKHMG02	165.0
Rockingham County	3	306833	1ROCKHMG03	165.0
Rocky Creek	1	307846	1ROCKYCR	2.9
Rocky Creek	2	307846	1ROCKYCR	2.9
Rocky Creek	3	307846	1ROCKYCR	2.9
Rocky Creek	4	307846	1ROCKYCR	2.9
Rocky Creek	5	307846	1ROCKYCR	4.8
Rocky Creek	6	307846	1ROCKYCR	4.8
Rocky Creek	7	307846	1ROCKYCR	2.9
Rocky Creek	8	307846	1ROCKYCR	2.9
Rowan	1	306991	1ROWANC1	154.3
Rowan	2	306992	1ROWANC2	154.3
Rowan	3	306993	1ROWANC3	154.3

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Rowan	4	306994	1ROWANC4	150.4
Rowan	5	306995	1ROWANC5	150.4
Rowan	6	306996	1ROWANS1	169.0
Sun Edison	1	308785	1SUNED24	15.5
Tennessee Creek	1	308518	1TENNCRK	10.8
Thorpe	1	308600	1THORPE	21.6
Thorpe	2	308600	1THORPE	3.0
Turner	1	307599	1TURN HY	1.5
Turner	2	307599	1TURN HY	1.5
Tuxedo	1	307601	1TUX HYD	3.2
Tuxedo	2	307601	1TUX HYD	3.2
Wateree	1	307862	1WATEREE	17.0
Wateree	2	307862	1WATEREE	17.0
Wateree	3	307862	1WATEREE	17.0
Wateree	4	307862	1WATEREE	17.0
Wateree	5	307862	1WATEREE	17.0
Wylie	1	307840	1WYLIE H	18.0
Wylie	2	307840	1WYLIE H	18.0
Wylie	3	307840	1WYLIE H	18.0
Wylie	4	307840	1WYLIE H	18.0

Appendix 3: Duke Progress East BAA

The following information provides a more granular overview of the Duke Progress East BAA input assumptions and transmission expansion plan that are incorporated in the development of the SERTP regional transmission plan.

Table A3.1: 2014 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage (Duke Progress East BAA)

			, 1	5 1 0	0 (0	
Duke Progress East BAA	100-120	121-150	151-199	200-299	300-399	400-550
	kV	kV	kV	kV	kV	kV
Transmission lines – New				28		
(Circuit Mi.)				20		
Transmission Lines – Uprates ¹	22			10		
(Circuit Mi.)	22			10		
Transformers ² – New				3		
Transformers ² – Replacements				4		

¹A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line. ²The voltages shown represent the operating voltages on the high side terminals of the transformer

Table A3.2: Interface commitments¹ modeled in the SERTP Summer Peak models – Duke Progress East BAA

То	2015	2017	2019	2020	2022	2024
Duke Carolinas	-1018	-1003	-1074	-1058	-1114	-1069
Duke Progress West	150	150	150	150	150	150
PJM	-30	-30	-30	-30	-30	-30
Total	-898	-883	-954	-938	-994	-949

¹A positive number represents a net export from the Duke Progress East BAA

Southeastern Regional

2014

A detailed listing of the changes in generation assumptions within the Duke Progress East BAA throughout the ten (10) year planning horizon, including the year(s) in which they occur, is provided in Table A3.3 below. Table A3.4 provides a listing of generation assumptions based upon long-term, firm point-to-point commitments. The capacity (MW) values shown for each year reflect summer peak conditions. Table A3.5 provides a listing of all generators modeled in the 2015 Summer Peak powerflow model.

Table A3.3: Changes in Generation Assumptions Based Upon LSEs – Duke Progress East BAA

 Site
 2015
 2016
 2017
 2018
 2019
 2020
 2021
 2022
 2023
 2024

 No changes in generation assumptions throughout the planning horizon

Table A3.4: Generation Assumptions Based Upon Expected Long-term, Firm Point-to-Point Commitments – Duke Progress East BAA

Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Hamlet #1	55	55	55	55	55	55	55	55	55	55
Hamlet #2	55	55	55	55	55	55	55	55	55	55
Hamlet #3	55	55	55	55	55	55	55	55	55	55

Table A3.5: Generating Units Modeled in the 2015 Summer Peak Powerflow Model – Duke Progress East BAA

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Aurora	С	304454	6AURORA SS T	42.0
Blewett	1	304892	1BLEW1-3	3.0
Blewett	2	304892	1BLEW1-3	3.0
Blewett	3	304892	1BLEW1-3	4.0
Blewett	1	304893	1BLEW4-6	4.0
Blewett	2	304893	1BLEW4-6	4.0
Blewett	3	304893	1BLEW4-6	4.0
Blewett	А	304933	1BLWIC1&2	13.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Blewett	В	304933	1BLWIC1&2	13.0
Blewett	А	304934	1BLWIC3&4	13.0
Blewett	В	304934	1BLWIC3&4	13.0
Brunswick	1	304862	1BRUN #1	938.0
Brunswick	1	304863	1BRUN #2	932.0
Cape Fear	А	304930	1CFIC1&2	14.0
Cape Fear	В	304930	1CFIC1&2	14.0
Cape Fear	А	304931	1CFIC3	14.0
Craven County Wood Energy	1	304472	6CC WD EN SU	45.0
Darlington	А	304897	1DCP #1	52.0
Darlington	А	304898	1DCP #2	52.0
Darlington	А	304899	1DCP #3	52.0
Darlington	А	304900	1DCP #4	52.0
Darlington	А	304901	1DCP #5	52.0
Darlington	А	304902	1DCP #6	52.0
Darlington	А	304903	1DCP #7	51.0
Darlington	А	304904	1DCP #8	52.0
Darlington	А	304905	1DCP #9	52.0
Darlington	А	304906	1DCP #10	52.0
Darlington	А	304907	1DCP #11	52.0
Darlington	А	304954	1DCP#12	118.0
Darlington	А	304955	1DCP#13	116.0
Elizabethtown	1	304578	3COG E-TOWN	32.0
Fayetteville PWC	А	304940	1FAYPWC1	20.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Fayetteville PWC	А	304941	1FAYPWC2	20.0
Fayetteville PWC	А	304942	1FAYPWC3	20.0
Fayetteville PWC	А	304943	1FAYPWC4	20.0
Fayetteville PWC	А	304944	1FAYPWC5	20.0
Fayetteville PWC	А	304945	1FAYPWC6	20.0
Fayetteville PWC	А	304946	1FAYPWC7	20.0
Fayetteville PWC	А	304947	1FAYPWC8	20.0
Fayetteville PWC	А	304948	1FAYPWC ST	65.0
Harris	1	304865	1HARRIS#1	928.0
Industrial '#79	1	304641	3IND079	68.0
Kornegay	1	304605	3COG KORN SU	25.0
Lilesville EMC	1	304986	1NCEMC ANSON	336.0
Lumberton	1	304603	3COG LUMB SU	32.0
Mayo	1	304873	1MAYO #1	727.0
Richmond County	А	304971	1RICH CT1	162.0
Richmond County	А	304972	1RICH CT2	167.0
Richmond County	А	304973	1RICH CT3	169.0
Richmond County	А	304974	1RICH CT4	163.0
Richmond County	А	304975	1RICH CT6	159.0
Richmond County	А	304977	1RICH CC1	560.0
Richmond County	А	304978	1RICH CC2	614.0
Richmond EMC	А	304976	1RICH EMC	338.0
Robinson	А	304920	1ROB IC	14.0
Robinson	1	304864	1ROB #2	741.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Roxboro	1	304097	6COG ROXBORO	56.0
Roxboro	1	304872	1ROX #4	698.0
Roxboro	1	304869	1ROX #1	379.0
Roxboro	1	304870	1ROX #2	659.0
Roxboro	1	304871	1ROX #3	696.0
Southport	1	304601	6COG SPRT SU	103.0
Sutton	А	304922	1SUTIC2A	26.0
Sutton	А	304923	1SUTIC2B	26.0
Sutton	1	305911	1SUT_CC1-A	180.0
Sutton	1	305912	1SUT_CC1-B	180.0
Sutton	1	305913	1SUT_CC1-C	265.0
Sutton	А	304921	1SUTIC#1	13.0
Tillery	1	304888	1TILL #1	21.0
Tillery	1	304889	1TILL #2	18.0
Tillery	1	304890	1TILL #3	21.0
Tillery	1	304891	1TILL #4	27.0
Wayne County	А	304956	1WYNCO#1	177.0
Wayne County	А	304957	1WYNCO#2	174.0
Wayne County	А	304958	1WYNCO#3	173.0
Wayne County	А	304959	1WYNCO#4	170.0
Wayne County	А	304960	1WYNCO#5	169.0
Wayne County	А	304961	1WYNCO CC#1	360.0
Wayne County	А	304962	1WYNCO CC#2	560.0
Weatherspoon	А	304925	1WSPIC#2	35.0

Diant	Linit	D	Due Neme	Pmax
Plant	Unit	Bus #	Bus Name	(MW)
Weatherspoon	А	304924	1WSPIC#1	35.0
Weatherspoon	А	304927	1WSPIC#3	33.0
Weatherspoon	А	304928	1WSPIC#4	34.0

2014

Appendix 4: Duke Progress West BAA

The following information provides a more granular overview of the Duke Progress West BAA input assumptions and transmission expansion plan that are incorporated in the development of the SERTP regional transmission plan.

Table A4.1: 2014 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage (Duke Progress West BAA)

5			y 1	0	0 (0	,
Duke Progress West BAA	100-120	121-150	151-199	200-299	300-399	400-550
	kV	kV	kV	kV	kV	kV
Transmission lines – New						
(Circuit Mi.)						
Transmission Lines – Uprates ¹	3					
(Circuit Mi.)	5					
Transformers ² – New						
Transformers ² – Replacements						

¹A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line. ²The voltages shown represent the operating voltages on the high side terminals of the transformer

Table A4.2: Interface commitments ¹ mod	led in the SERTP Summer Peal	k models – Duke Progress West BAA

То	2015	2017	2019	2020	2022	2024
Duke Progress East	-150	-150	-150	-150	-150	-150
TVA	-1	-1	-1	-1	-1	-1
Total	-151	-151	-151	-151	-151	-151

¹A positive number represents a net export from the Duke Progress West BAA

Southeastern Regional

2014

A detailed listing of the changes in generation assumptions within the Duke Progress West BAA throughout the ten (10) year planning horizon, including the year(s) in which they occur, is provided in Table A4.3 below. Table A4.4 provides a listing of generation assumptions based upon long-term, firm point-to-point commitments. The capacity (MW) values shown for each year reflect summer peak conditions. Table A4.5 provides a listing of all generators modeled in the 2015 Summer Peak powerflow model.

Table A4.3: Changes in Generation Assumptions Based Upon LSEs – Duke Progress West BAA

Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Asheville	0	0	130	130	130	130	130	130	130	130

Table A4.4: Generation Assumptions Based Upon Expected Long-term, Firm Point-to-Point Commitments – Duke Progress West BAA

Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
None										

Table A4.5: Generating Units Modeled in the 2015 Summer Peak Powerflow Model – Duke Progress West BAA

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Asheville	1	304851	1ASHVL #1	191.0
Asheville	1	304852	1ASHVL #2	185.0
Asheville	А	304858	1ASH CT#1	164.0
Asheville	А	304859	1ASH CT#2	160.0
Marshall	1	304856	1MARSH1&2	2.0
Marshall	2	304856	1MARSH1&2	2.0
Walters	1	304853	1WALT #1	36.0
Walters	1	304854	1WALT #2	40.0
Walters	1	304855	1WALT #3	36.0

Appendix 5: LG&E/KU BAA

The following information provides a more granular overview of the LG&E/KU BAA input assumptions and transmission expansion plan that are incorporated in the development of the SERTP regional transmission plan.

 Table A5.1: 2014 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage (LG&E/KU BAA)

8					<u> </u>	,
LG&E/KU BAA	100-120	121-150	151-199	200-299	300-399	400-550
	kV	kV	kV	kV	kV	kV
Transmission lines – New		1.2				
(Circuit Mi.)		1.3				
Transmission Lines – Uprates ¹		15.8				
(Circuit Mi.)		15.0				
Transformers ² – New						
Transformers ² – Replacements						

¹A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line. ²The voltages shown represent the operating voltages on the high side terminals of the transformer

Table A5.2: Interface commitments ¹ modeled in the SERTP Summer Peak mode	els – LG&E/KU BAA
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То	2015	2017	2019	2020	2022	2024
PJM	94	94	94	94	94	94
OVEC	-158	-158	-158	-158	-158	-158
MISO	81	81	81	81	81	81
Owensboro Municipal	-9	-9	-9	-9	-9	-9
TVA	-3	-3	-3	-3	-3	-3
Total	5	5	5	5	5	5

¹A positive number represents a net export from the LG&E/KU BAA

Southeastern Regional

2014

A detailed listing of the changes in generation assumptions within the LG&E/KU BAA throughout the ten (10) year planning horizon, including the year(s) in which they occur, is provided in Table A5.3 below. Furthermore, supplemental information regarding noteworthy generation expansion and retirements/decertifications included in the 2014 series set of SERTP powerflow models is provided below while Table A5.4 provides a listing of generation assumptions based upon long-term, firm point-to-point commitments. The capacity (MW) values shown for each year reflect summer peak conditions. Table A5.5 provides a listing of all generators modeled in the 2015 Summer Peak powerflow model.

Table A5.3: Changes in Generation Assumptions Based Upon LSEs - LG&E/KU BAA

_	0			L		1		/			
	Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
	Green River	0									
	Cane Run 4-6	0									
	Cane Run 7	660	660	660	660	660	660	660	660	660	660
	Ohio Falls	64	64	64	64	64	64	64	64	64	64

Noteworthy Generation Expansion

• LG&E/KU is constructing a new 660 MW unit at Cane Run with scheduled commercial operation in 2015.

Noteworthy Generation Retirements/Decertifications

- Green River Units 3 & 4 in 2015
- Cane Run Units 4, 5, & 6 in 2015

Table A5.4: Generation Assumptions Based Upon Expected Long-term, Firm Point-to-Point Commitments – LG&E/KU BAA

Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Trimble County	324	324	324	324	324	324	324	324	324	324

Plant	Unit	Bus #	Bus Name	Pmax (MW)	
Brown	1	324000	1BROWN 1	113.0	
Brown	2	324001	1BROWN 2	177.0	
Brown	3	324002	1BROWN 3	450.0	
Brown	5	324003	1BROWN 5	131.0	
Brown	6	324004	1BROWN 6	147.0	
Brown	7	324005	1BROWN 7	147.0	
Brown	8	324006	1BROWN 8	123.0	
Brown	9	324007	1BROWN 9	123.0	
Brown	10	324008	1BROWN10	123.0	
Brown	11	324009	1BROWN11	123.0	
Buckner (Bluegrass)	1	324044	1BUCK 1	165.0	
Buckner (Bluegrass)	2	324045	1BUCK 2	165.0	
Buckner (Bluegrass)	3	324046	1BUCK 3	165.0	
Cane Run	11	324013	1CR 11	14.0	
Cane Run	7C	325095	1CANE RUN 7C	230.0	
Cane Run 7	7A	325093	1CANE RUN 7A	215.0	
Cane Run 7	7B	325094	1CANE RUN 7B	215.0	
Dix Dam	1	324014	1DIXD 1	8.0	
Dix Dam	2	324015	1DIXD 2	8.0	
Dix Dam	3	324016	1DIXD 3	8.0	
Ghent	1	324017	1GHNT 1	516.0	
Ghent	2	324018	1GHNT 2	528.0	
Ghent	3	324019	1GHNT 3	534.0	

Plant	t Unit Bus #		Bus Name	Pmax (MW)
Ghent	4	324020	1GHNT 4	512.0
Haefling	1	324023	1HAEFLN	12.0
Haefling	2	324023	1HAEFLN	12.0
Haefling	3	324023	1HAEFLN	12.0
KMPAPAD	2	324697	1KMPAPAD2	58.0
KMPAPAD	1	324933	1KMPAPAD1	58.0
LOCK 7	1	324052	1LOCK 7	2.0
Mill Creek	1	324024	1MILC 1	330.0
Mill Creek	2	324025	1MILC 2	330.0
Mill Creek	3	324026	1MILC 3	422.0
Mill Creek	4	324027	1MILC 4	517.0
Ohio Falls	1	324028	10H FAL	8.0
Ohio Falls	2	324028	10H FAL	8.0
Ohio Falls	3	324028	10H FAL	8.0
Ohio Falls	4	324028	10H FAL	8.0
Ohio Falls	5	324028	10H FAL	8.0
Ohio Falls	6	324028	10H FAL	8.0
Ohio Falls	7	324028	10H FAL	8.0
Ohio Falls	8	324028	10H FAL	8.0
Paddys Run	13	324031	1PADR 13	148.0
Paddys Run	11	326514	1PADR 11	12.0
Paddys Run	12	326515	1PADR 12	23.0
Trimble County	1	324034	1TRIM 1	547.0
Trimble County	2	324035	1TRIM 2	781.0

Plant	Plant Unit Bus #		Bus Name	Pmax (MW)
Trimble County	5	324036	1TRIM 5	160.0
Trimble County	6	324037	1TRIM 6	160.0
Trimble County	7	324038	1TRIM 7	160.0
Trimble County	8	324039	1TRIM 8	160.0
Trimble County	9	324040	1TRIM 9	160.0
Trimble County	10	324041	1TRIM10	160.0
Zorn	1	324043	2ZORN	14.0

Appendix 6: OVEC BAA

The following information provides a more granular overview of the OVEC BAA input assumptions and transmission expansion plan that are incorporated in the development of the SERTP regional transmission plan.

Table A6.1: 2014 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage (OVEC BAA)

0					0 (
OVEC BAA	100-120	121-150	151-199	200-299	300-399	400-550
	kV	kV	kV	kV	kV	kV
Transmission lines – New						
(Circuit Mi.)						
Transmission Lines – Uprates ¹ (Circuit Mi.)						
Transformers ² – New						
Transformers ² – Replacements						

¹A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line. ²The voltages shown represent the operating voltages on the high side terminals of the transformer

Table A6.2: Interface commitments	⁵¹ modeled in the SERTP Summer Peak models – OVEC BAA
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То	2015	2017	2019	2020	2022	2024
PJM	1807	1807	1807	1807	1807	1807
MISO	30	30	30	30	30	30
LG&E/KU	158	158	158	158	158	158
Total	1995	1995	1995	1995	1995	1995

¹A positive number represents a net export from the OVEC BAA

2014

A detailed listing of the changes in generation assumptions within the OVEC BAA throughout the ten (10) year planning horizon, including the year(s) in which they occur, is provided in Table A6.3 below. Table A6.4 provides a listing of generation assumptions based upon long-term, firm point-to-point commitments. The capacity (MW) values shown for each year reflect summer peak conditions. Table A6.5 provides a listing of all generators modeled in the 2015 Summer Peak powerflow model.

Table A6.3: Changes in Generation Assumptions Based Upon LSEs – OVEC BAASite2015201620172018201920202021202220232024No changes in generation assumptions throughout the planning horizon

Table A6.4: Generation Assumptions Based Upon Expected Long-term, Firm Point-to-Point Commitments – OVEC BAA

Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
None										

Table A6.5: Generating Units Modeled in the 2015 Summer Peak Powerflow Model – OVEC BAA

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Clifty Creek	1	248000	06CLIFTY	198.0
Clifty Creek	2	248000	06CLIFTY	198.0
Clifty Creek	3	248000	06CLIFTY	198.0
Clifty Creek	4	248000	06CLIFTY	198.0
Clifty Creek	5	248000	06CLIFTY	198.0
Clifty Creek	6	248000	06CLIFTY	198.0
Kyger Creek	1	248005	06KYGER	197.0
Kyger Creek	2	248005	06KYGER	196.0
Kyger Creek	3	248005	06KYGER	196.0
Kyger Creek	4	248005	06KYGER	196.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Kyger Creek	5	248005	06KYGER	196.0

Appendix 7: PowerSouth BAA

The following information provides a more granular overview of the PowerSouth BAA input assumptions and transmission expansion plan that are incorporated in the development of the SERTP regional transmission plan.

Table A7.1: 2014 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage (PowerSouth BAA)

-						
PowerSouth BAA	100-120	121-150	151-199	200-299	300-399	400-550
	kV	kV	kV	kV	kV	kV
Transmission lines – New	20					
(Circuit Mi.)	39					
Transmission Lines — Uprates ¹ (Circuit Mi.)	80					
Transformers ² – New						
Transformers ² – Replacements						

¹A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line. ²The voltages shown represent the operating voltages on the high side terminals of the transformer

Table A7.2: Interface commitments ¹ modeled in the SERTP Summer Peak models – PowerSout	th BAA
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То	2015	2017	2019	2020	2022	2024
Southern	558	618	517	529	555	586
SMEPA	68	68	68	68	68	68
Total	626	686	585	597	623	654

¹A positive number represents a net export from the PowerSouth BAA

2014

A detailed listing of the changes in generation assumptions within the PowerSouth BAA throughout the ten (10) year planning horizon, including the year(s) in which they occur, is provided in Table A7.3 below. Table A7.4 provides a listing of generation assumptions based upon long-term, firm point-to-point commitments. The capacity (MW) values shown for each year reflect summer peak conditions. Table A7.5 provides a listing of all generators modeled in the 2015 Summer Peak powerflow model.

Table A7.3: Changes in Generation Assumptions Based Upon LSEs – PowerSouth BAA

Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
McIntosh	688	688	688	688	688	688	688	882	882	882

Table A7.4: Generation Assumptions Based Upon Expected Long-term, Firm Point-to-Point Commitments – PowerSouth BAA

Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
				None						

Table A7.5: Generating Units Modeled in the 2015 Summer Peak Powerflow Model – PowerSouth BAA

Plant	nt Unit I		Bus Name	Pmax (MW)		
1	4	247744				
Lowman	1	317711	1LOWMAN1G	80.0		
Lowman	2	317712	1LOWMAN2G	238.0		
Lowman	3	317713	1LOWMAN3G	238.0		
McIntosh	1	317721	1MCNTSH1G	110.0		
McIntosh	2	317722	1MCNTSH2G	114.0		
McIntosh	3	317723	1MCNTSH3G	114.0		
McIntosh	4	317754	1MCNTSH4G	175.0		
McIntosh	5	317755	1MCNTSH5G	175.0		
McWilliams	1	317731	1MCWLMS1G	9.0		
McWilliams	2	317732	1MCWLMS2G	9.0		

Plant	Unit	Bus #	Bus Name	Pmax (MW)
McWilliams	3	317733	1MCWLMS3G	22.0
McWilliams	4	317734	1MCWLMS4G	108.0
Point A	Н	317071	1POINTA_HYD	8.0
Vann	1	317701	1VANN 1G	171.0
Vann	2	317702	1VANN 2G	168.0
Vann	3	317703	1VANN 3G	176.0

Appendix 8: Southern BAA

The following information provides a more granular overview of the Southern BAA input assumptions and transmission expansion plan that are

incorporated in the development of the SERTP regional transmission plan.

Tuble 0.1. 2011 SERTI Regional Transi		unsiniission i roj	cet shapshot by	operating volta	ge (Southern Di	<i>u</i> 1 <i>j</i>
Southern BAA	100-120	121-150	151-199	200-299	300-399	400-550
	kV	kV	kV	kV	kV	kV
Transmission lines – New (Circuit Mi.)	174			357		55
Transmission Lines – Uprates ¹ (Circuit Mi.)	518		52	142		
Transformers ² – New	1			12		1
Transformers ² – Replacements				8		

 Table 8.1: 2014 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage (Southern BAA)

¹A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line. ²The voltages shown represent the operating voltages on the high side terminals of the transformer

Table 8.2: Interface commitments¹ modeled in the SERTP Summer Peak models – Southern BAA

То	2015	2017	2019	2020	2022	2024
Duke Carolinas	246	246	246	246	246	246
SCE&G	100	0	0	0	0	0
SCPSA	150	-50	-50	-50	-50	-50
TVA	-59	-59	-58	-59	-57	-61
SEPA	-681	-681	-681	-681	-681	-681
MISO	-97	-99	-150	-150	-153	-156
PowerSouth	-558	-618	-517	-529	-555	-586
Florida	2216	1558	1763	1763	1762	1762
Total	1317	297	553	540	512	474

¹A positive number represents a net export from the Southern BAA

2014

A detailed listing of the changes in generation assumptions within the Southern BAA throughout the ten (10) year planning horizon, including the year(s) in which they occur, is provided in Tables A8.3 through A8.6 below. Furthermore, supplemental information regarding noteworthy generation expansion and retirements/decertifications included in the 2014 series set of SERTP powerflow models is provided below, while Table A8.7 provides a listing of generation assumptions based upon long-term, firm point-to-point commitments. The capacity (MW) values shown for each year reflect summer peak conditions. Table A8.8 provides a listing of all generators modeled in the 2015 Summer Peak powerflow model.

Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Dahlberg	367	367	367	367	367	367	367	367	367	367
Branch 1	0	0	0	0	0	0	0	0	0	0
Branch 3-4	0	0	0	0	0	0	0	0	0	0
Gorgas 6-7	0	0	0	0	0	0	0	0	0	0
McManus 1-2	0	0	0	0	0	0	0	0	0	0
Scholz 1-2	0	0	0	0	0	0	0	0	0	0
Yates 1-5	0	0	0	0	0	0	0	0	0	0
Vogtle 2	540	540	540	540	540	540	540	540	540	540
Simon	27	27	27	27	27	27	27	27	27	27
Franklin 2	625	0	0	0	0	0	0	0	0	0
West Georgia	298	298	298	298	298	298	298	298	298	298
Kraft	316	0	0	0	0	0	0	0	0	0
Harris 1	0	625	625	625	625	625	625	625	625	625
Wansley 6	561	561	0	0	0	0	0	0	0	0
Vogtle 3	0	0	0	504	504	504	504	504	504	504
Vogtle 4	0	0	0	0	504	504	504	504	504	504
Harris 2	628	628	628	628	0	0	0	0	0	0
Central Alabama	885	885	885	885	885	885	885	885	0	0
Calhoun 1-4	632	632	632	632	632	632	632	632	0	0

Table A8.3: Changes in Generation Assumptions Based Upon LSEs - Southern Company

2014

Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Yates ¹	0	0	0	0	0	0	0	0	940	940
Tiger Creek	313	313	313	313	313	313	313	313	313	0
Monroe	310	310	310	310	310	310	310	310	310	0
Walton County	465	465	465	465	465	465	465	465	465	0
Crist ¹	0	0	0	0	0	0	0	0	0	300
Branch ¹	0	0	0	0	0	0	0	0	0	940

¹This assumption may be modified as resource decisions are made by the corresponding LSEs pursuant to applicable regulatory processes.

Table A8.4: Changes in Generation Assumptions Based Upon LSEs – GTC

Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Effingham	500	0	0	0	0	0	0	0	0	0
Lindsay Hill	273	0	0	0	0	0	150	150	150	150
Franklin 2	0	625	625	625	625	625	375	375	375	375
Santa Rosa	0	0	0	0	0	0	0	0	0	0
Dahlberg	262	375	375	375	375	375	375	375	375	375
Hillabee	0	149	149	149	149	149	149	149	149	149
T.A. Smith I	0	619	619	619	619	619	619	619	619	619
T.A. Smith II	0	617	617	617	617	617	617	617	617	617
Wansley 6	0	0	561	561	561	561	561	561	561	561
Vogtle 3	0	0	0	330	330	330	330	330	330	330
Vogtle 4	0	0	0	0	330	330	330	330	330	330

Table A8.5: Changes in Generation Assumptions Based Upon LSEs – MEAG

 0			1		1					
Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Vogtle 2	248	248	248	248	248	248	248	248	248	248
Vogtle 3	0	0	0	250	250	250	250	250	250	250
Vogtle 4	0	0	0	0	250	250	250	250	250	250

2014

Table A8.6: Changes in Generation Assumptions Based Upon LSEs - Dalton

Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Vogtle 3	0	0	0	16	16	16	16	16	16	16
Vogtle 4	0	0	0	0	16	16	16	16	16	16

Noteworthy Generation Expansion

- Georgia Power, jointly with Dalton Utilities, Municipal Electric Authority of Georgia, and Oglethorpe Power, are building 2200 MWs of nuclear generation at Plant Vogtle near Augusta, Georgia, about 150 miles from Atlanta. The Vogtle units are scheduled to be in commercial operation in late 2017 and 2018 respectively.
- Mississippi Power is constructing an approximately 600 MW Integrated Gasification Combined Cycle ("IGCC") power plant at Kemper County, MS scheduled for commercial operation in 2016.

Noteworthy Generation Retirements/Decertifications

- Alabama Power has announced plans to retire Gorgas Units 6 and 7 in 2015.
- Georgia Power has announced plans to decertify the following generating units:
 - Branch Units 1, 3, and 4 in 2015
 - McManus Units 1-2 in 2015
 - o Mitchell Unit 3 in 2015
 - Yates Units 1-5 in 2015
 - Kraft Units 1-4 in 2016
- Gulf power has announced plans to close its Plant Scholz Units 1 and 2, in 2015.

2014

Table A8.7: Generation Assumptions Based Upon Expected Long-term, Firm Point-to-Point Commitments – Southern BAA

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Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Vogtle	103	206	206	206	206	206	206	206	206	206
Lindsay Hill	573	365	300	300	300	300	300	300	300	300
Hammond	10	10	10	10	10	10	10	10	10	10
Miller	100	100	0	0	0	0	0	0	0	0
Harris	584	0	0	0	0	0	0	0	0	0
Hillabee	350	350	350	350	350	350	350	350	350	350
Franklin	535	609	609	609	609	609	609	609	609	609
Bowen	27	27	27	27	27	27	27	27	27	27
Scherer	1146	998	998	998	998	998	998	998	998	998
Dahlberg	176	176	176	176	176	176	176	176	176	176

Table 8.8: Generating Units Modeled in the 2015 Summer Peak Powerflow Model – Southern BAA

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Addison	1	383901	1ADDISON 1	151.7
Addison	2	383902	1ADDISON 2	154.2
Addison	3	383903	1ADDISON 3	150.0
Addison	4	383904	1ADDISON 4	146.0
Allatoona Dam	1	383506	1ALLA DAM	72.0
AMEA Sylacauga	1	386036	1AMEA CT1	47.5
AMEA Sylacauga	2	386037	1AMEA CT2	47.5
Baconton	1	383791	1SOWEGA 1	49.3
Baconton	4	383803	1SOWEGA 4	49.0
Baconton	5	383804	1SOWEGA 5	49.0
Baconton	6	383805	1SOWEGA 6	48.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Bankhead Dam	1	384357	1BANK GEN	52.0
Barry	1	386471	1BARRY 1	138.0
Barry	2	3864 72	1BARRY 2	137.0
Barry	3	386473	1BARRY 3	125.0
Barry	3L	386473	1BARRY 3	124.0
Barry	4	386474	1BARRY 4	362.0
Barry	5	386475	1BARRY 5	773.0
Barry	6	386476	1BARRY 6ST	190.0
Barry	6A	386477	1BARRY 6A	171.0
Barry	6B	386478	1BARRY 6B	171.0
Barry	7	386479	1BARRY 7ST	181.0
Barry	7A	386480	1BARRY 7A	175.5
Barry	7B	386481	1BARRY 7B	175.5
Bartletts Ferry Dam	1	383514	1BARTLFY1	15.4
Bartletts Ferry Dam	2	383515	1BARTLFY2	15.4
Bartletts Ferry Dam	3	383516	1BARTLFY3	15.4
Bartletts Ferry Dam	4	383517	1BARTLFY4	20.6
Bartletts Ferry Dam	5	383518	1BARTLFY6	55.5
Bartletts Ferry Dam	6	383518	1BARTLFY6	55.5
Bay County	А	385413	1BAY CNTY 13	12.0
Bouldin Dam	1	386581	1BOULD1GN	78.0
Bouldin Dam	2	386582	1BOULD2GN	73.0
Bouldin Dam	3	386583	1BOULD3GN	73.0
Boulevard	1	389017	1BLVD1	14.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Bowen	1	383841	1BOWEN 1	740.5
Bowen	2	383842	1BOWEN 2	740.5
Bowen	3	383843	1BOWEN 3	912.5
Bowen	4	383844	1BOWEN 4	912.5
Buford Dam	1	383509	1BUF DAM 1+3	60.1
Buford Dam	3	383509	1BUF DAM 1+3	6.8
Buford Dam	2	383510	1BUF DAM 2	60.1
Calhoun	4	383680	1CALHOUN GEN	20.0
Calhoun	1	386061	1CALHOUNCT1	158.0
Calhoun	2	386062	1CALHOUNCT2	158.0
Calhoun	3	386063	1CALHOUNCT3	158.0
Calhoun	4	386064	1CALHOUNCT4	158.0
Carl	1	383779	1CARLBIOGN	28.5
Carters Dam	1	383502	1CARTERSDAM1	148.0
Carters Dam	2	383503	1CARTERSDAM2	148.0
Carters Dam	3	383504	1CARTERSDAM3	148.0
Carters Dam	4	383505	1CARTERSDAM4	148.0
Central Alabama	2	386427	1CENTAL 2ST	393.0
Central Alabama	2A	386428	1CENTAL 2A	164.0
Central Alabama	2B	386429	1CENTAL 2B	164.0
Central Alabama	2C	386430	1CENTAL 2C	164.0
Champion	А	385410	1CHAMPION13	25.0
Chattahoochee Energy	1	383632	1CHAT EN 1ST	167.0
Chattahoochee Energy	1A	383633	1CHAT EN 1A	151.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Chattahoochee Energy	1B	383634	1CHAT EN 1B	151.0
Chevron	1	386831	1CHEVRON1	15.0
Chevron	2	386832	1CHEVRON2	15.0
Chevron	3	386833	1CHEVRON3	16.0
Chevron	4	386834	1CHEVRON4	16.0
Chevron	5	386835	1CHEVRON5	68.0
Cotton	1	380144	6COTTON	16.0
Crisp Co. Dam	1	383541	1CRISPCO1	23.0
Crist	4	386704	1CRIST 4	79.0
Crist	5	386705	1CRIST 5	79.0
Crist	6	386706	1CRIST 6	310.0
Crist	7	386707	1CRIST 7	504.0
Dahlberg	1	383661	1DAHLBERG 1	75.0
Dahlberg	2	383662	1DAHLBERG 2	75.0
Dahlberg	3	383663	1DAHLBERG 3	75.0
Dahlberg	4	383664	1DAHLBERG 4	75.0
Dahlberg	5	383665	1DAHLBERG 5	75.0
Dahlberg	6	383666	1DAHLBERG 6	75.0
Dahlberg	7	383667	1DAHLBERG 7	75.0
Dahlberg	8	383668	1DAHLBERG 8	75.0
Dahlberg	9	383669	1DAHLBERG 9	75.0
Dahlberg	10	383670	1DAHLBERG 10	75.0
Daniel	1	386871	1DANIEL 1	510.0
Daniel	2	386872	1DANIEL 2	510.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Daniel	3	386873	1DANIEL 3ST	180.0
Daniel	3A	386874	1DANIEL 3A	175.0
Daniel	3B	386875	1DANIEL 3B	175.0
Daniel	4	386876	1DANIEL 4ST	178.0
Daniel	4A	386877	1DANIEL 4A	175.0
Daniel	4B	386878	1DANIEL 4B	175.0
Doyle	1	383871	1DOYLE 1	58.7
Doyle	2	383872	1DOYLE 2	58.9
Doyle	3	383873	1DOYLE 3	58.6
Doyle	4	383874	1DOYLE 4	73.7
Doyle	5	383875	1DOYLE 5	74.7
Effingham	1	383867	1EFFHAM 1ST	182.0
Effingham	1A	383868	1EFFHAM 1A	159.0
Effingham	1B	383869	1EFFHAM 1B	159.0
Farley	1	386461	1FARLEY 1	896.0
Farley	2	386462	1FARLEY 2	905.0
Flint River Dam	1	383538	1FLINT HYDRO	6.5
Franklin	1	383671	1FRANKLIN1ST	209.0
Franklin	1A	383672	1FRANKLIN 1A	174.0
Franklin	1B	383673	1FRANKLIN 1B	174.0
Franklin	2	383674	1FRANKLIN2ST	275.0
Franklin	2A	383675	1FRANKLIN 2A	175.0
Franklin	2B	383676	1FRANKLIN 2B	175.0
Franklin	3	383677	1FRANKLIN3ST	276.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Franklin	3A	383678	1FRANKLIN 3A	172.0
Franklin	3B	383679	1FRANKLIN 3B	172.0
Gadsden	1	386421	1GADSDEN1	64.0
Gadsden	2	386422	1GADSDEN2	66.0
Gaston	1	386411	1GASTON 1	127.0
Gaston	1L	386411	1GASTON 1	127.0
Gaston	2	386412	1GASTON 2	129.5
Gaston	2L	386412	1GASTON 2	129.5
Gaston	3	386413	1GASTON 3	130.0
Gaston	3L	386413	1GASTON 3	130.0
Gaston	4	386414	1GASTON 4	128.0
Gaston	4L	386414	1GASTON 4	128.0
Gaston	5	386415	1GASTON 5	872.0
Gaston	А	386416	1GASTON A	16.0
GE Plastic	1	386083	1LOWDN CO1	13.0
GE Plastic	1A	386084	1LOWDN CO2	79.0
George Dam	1	383539	1GEORGE 1-2	84.6
George Dam	3	383540	1GEORGE 3-4	79.6
Goat Rock Dam	3	383520	1GOATROCK	5.0
Goat Rock Dam	4	383520	1GOATROCK	5.0
Goat Rock Dam	7	383520	1GOATROCK	9.3
Goat Rock Dam	8	383520	1GOATROCK	9.3
Goat Rock Dam	5	383521	1GOATRK 56	5.0
Goat Rock Dam	6	383521	1GOATRK 56	5.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Gorgas	6	386406	1GORGAS 6 13	110.0
Gorgas	7	386407	1GORGAS 7	111.0
Gorgas	8	386408	1GORGAS 8	165.8
Gorgas	9	386409	1GORGAS 9	175.2
Gorgas	10	386410	1GORGAS10	721.2
Greene County	1	386441	1GREENE CO 1	262.0
Greene County	2	386442	1GREENE CO 2	255.0
Greene County	А	386450	1GREENCOA	84.0
Greene County	В	386451	1GREENCOB	82.0
Greene County	С	386452	1GREENCOC	81.0
Greene County	D	386453	1GREENCOD	82.0
Greene County	E	386454	1GREENCOE	81.0
Greene County	F	386455	1GREENCOF	80.0
Greene County	G	386456	1GREENCOG	83.0
Greene County	Н	386457	1GREENCOH	82.0
Greene County	I.	386458	1GREENCOI	85.0
Greenway	1	383785	1GRNWAYBIO	55.8
Hammond	1	383651	1HAMMOND 1	111.9
Hammond	2	383652	1HAMMOND 2	111.9
Hammond	3	383653	1HAMMOND 3	111.9
Hammond	4	383654	1HAMMOND 4	532.3
Harris	1	386491	1HARRIS 1ST	277.0
Harris	1A	386492	1HARRIS 1A	175.0
Harris	1B	386493	1HARRIS 1B	175.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Harris	2	386494	1HARRIS 2ST	285.6
Harris	2A	386495	1HARRIS 2A	175.0
Harris	2B	386496	1HARRIS 2B	175.0
Harris Dam	1	386531	1HARISGEN	62.0
Harris Dam	2	386531	1HARISGEN	62.0
Hatch	1	383811	1HATCH 1	880.1
Hatch	2	383812	1HATCH 2	889.7
Hawk Road	1	383927	1HAWK RD 1	152.8
Hawk Road	2	383928	1HAWK RD 2	151.6
Hawk Road	3	383929	1HAWK RD 3	152.8
Henry Dam	1	386501	1HENRYGEN	62.0
Hillabee	1	386437	1HILL ST1	300.0
Hillabee	1A	386438	1HILLCT1A	250.0
Hillabee	1B	386439	1HILLCT1B	250.0
Hog Bayou	1	386089	1HOGBAYOU 1	75.0
Hog Bayou	1A	386090	1HOGBAYOU1A	150.0
Holt Dam	1	384355	1HOLT GEN	45.0
Jordan Dam	1	386561	1JORD1GEN	60.0
Jordan Dam	3	386563	1JORD3GEN	60.0
Kraft	3	389005	1KRAFT3	101.0
Kraft	4	389006	1KRAFT4	115.0
Kraft	1	389008	1KRAFT1	48.0
Kraft	2	389009	1KRAFT2	52.0
Kraft	1	389010	1KRAFTCT	17.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Lancaster	1	383780	1LANCSRT CT	17.0
Lansing Smith	А	386780	1LSMITH A	32.0
Lansing Smith	1	386781	1LSMITH 1	162.0
Lansing Smith	2	386782	1LSMITH 2	195.0
Lansing Smith	3	386783	1LSMITH 3ST	224.0
Lansing Smith	3A	386784	1LSMITH 3A	166.0
Lansing Smith	3B	386785	1LSMITH 3B	166.0
Lay Dam	1	386541	1LAY1-3GN	89.5
Lay Dam	4	386544	1LAY4-6GN	90.0
Lee Road	1	383905	1LEE RD 1	50.0
Lee Road	2	383906	1LEE RD 2	50.0
LG&E Monroe	1	383862	1LGEMONROE1	154.1
LG&E Monroe	2	383863	1LGEMONROE2	151.6
LG&E Monroe	3	383864	1LGEMONROE3	154.5
Lindsay Hill	1	386423	1LHILL 1ST	361.0
Lindsay Hill	1A	386424	1LHILL 1A	163.0
Lindsay Hill	1B	386425	1LHILL 1B	163.0
Lindsay Hill	1C	386426	1LHILL 1C	163.0
Live Oaks	1	386038	1LIVEOAKS1ST	250.0
Live Oaks	1A	386039	1LIVEOAKS 1A	171.0
Live Oaks	1B	386040	1LIVEOAKS 1B	171.0
Lloyd Shoals Dam	1	383501	1LLOYD SHL	18.4
Logan Martin Dam	1	386521	1LMARTGEN	120.0
Martin Dam	1	386551	1MART1GEN	45.2

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Martin Dam	2	386552	1MART2GEN	40.3
Martin Dam	3	386553	1MART3GEN	39.3
Martin Dam	4	386554	1MART4GEN	54.1
McDonough	3B	383600	1MCDON 3B	40.0
McDonough	4	383878	1MCDON 4ST	338.0
McDonough	4A	383879	1MCDON 4A	250.0
McDonough	4B	383880	1MCDON 4B	250.0
McDonough	6	383883	1MCDON 6ST	362.0
McDonough	6A	383884	1MCDON 6A	240.0
McDonough	6B	383885	1MCDON 6B	240.0
McDonough	3A	383886	1MCDON 3A	40.0
McDonough	5	383961	1MCDON 5ST	362.0
McDonough	5A	383962	1MCDON 5A	240.0
McDonough	5B	383963	1MCDON 5B	240.0
McIntosh	1	389002	1MCINTOSH	135.5
McIntosh	1	389122	1MCINCT-1	82.2
McIntosh	2	389123	1MCINCT-2	82.2
McIntosh	3	389124	1MCINCT-3	82.2
McIntosh	4	389125	1MCINCT-4	82.2
McIntosh	5	389126	1MCINCT-5	82.2
McIntosh	6	389127	1MCINCT-6	82.2
McIntosh	7	389128	1MCINCT-7	82.2
McIntosh	8	389129	1MCINCT-8	82.2
McIntosh	10	389131	1MCINT 10ST	278.5

Plant	Unit	Bus #	Bus Name	Pmax (MW)
McIntosh	1A	389132	1MCINT 10A	175.0
McIntosh	1B	389133	1MCINT 10B	175.0
McIntosh	11	389134	1MCINT 11ST	278.3
McIntosh	1A	389135	1MCINT 11A	175.0
McIntosh	1B	389136	1MCINT 11B	175.0
McManus	4A	383821	1MCMANUS 4A	46.0
McManus	4B	383822	1MCMANUS 4B	46.0
McManus	4C	383823	1MCMANUS 4C	46.0
McManus	4D	383824	1MCMANUS 4D	46.0
McManus	4E	383825	1MCMANUS 4E	46.0
McManus	4F	383826	1MCMANUS 4F	46.0
McManus	3A	383833	1MCMANUS 3A	46.0
McManus	3B	383834	1MCMANUS 3B	46.0
McManus	3C	383835	1MCMANUS 3C	46.0
Mid Georgia	1	383711	1MID GA 1ST	96.0
Mid Georgia	1A	383712	1MID GA 1A	102.0
Mid Georgia	1B	383713	1MID GA 1B	102.0
Miller	1	386401	1MILLER 1	688.4
Miller	2	386402	1MILLER 2	693.1
Miller	3	386403	1MILLER 3	686.0
Miller	4	386404	1MILLER 4	698.0
Millers Ferry Dam	1	385402	1MILERSFY1	28.0
Millers Ferry Dam	2	385403	1MILERSFY2	28.0
Millers Ferry Dam	3	385404	1MILERSFY3	28.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Mitchell	3	383773	1MITCHELL 3	155.0
Mitchell	А	383781	1MITCHELL 4A	31.0
Mitchell	В	383782	1MITCHELL 4B	31.0
Mitchell Dam	4	386574	1MITC4GEN	17.9
Mitchell Dam	5	386575	1MITC5GEN	44.7
Mitchell Dam	6	386575	1MITC5GEN	44.7
Mitchell Dam	7	386575	1MITC5GEN	44.7
Monroe Power	1	383860	1MONROEPWR 1	160.0
Monroe Power	2	383861	1MONROEPWR 2	160.0
Monsanto	А	385411	1MONSANTO13	86.0
Morgan Falls Dam	1	383500	1MORGAN F	10.6
MS Bainbridge	1	383890	1MSBAINBR	78.0
North Highlands Dam	1	383525	1N HIGHLAND	34.4
North Star	1	383784	1N STAR BIO	21.5
Oliver Dam	1	383522	10LIVER 1	17.7
Oliver Dam	2	383523	10LIVER 2	17.7
Oliver Dam	3	383524	10LIVER 3-4	17.7
Oliver Dam	4	383524	10LIVER 3-4	6.1
OPC Hartwell	1	383881	10PCHWE 1	150.0
OPC Hartwell	2	383882	10PCHWE 2	149.0
Pea Ridge	1	387126	1PEA RIDG	12.0
Piedmont	1	383777	1PIEDMNT BIO	53.6
Rabun Gap	1	383775	1RABUN BIO	18.0
Ratcliffe	1	386881	1RATCLIF 1ST	377.1

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Ratcliffe	1A	386882	1RATCLIF 1A	235.7
Ratcliffe	1B	386883	1RATCLIF 1B	235.7
RF Henry Dam	1	385401	1RF HENRY 13	80.0
Robins Air Force Base	А	383741	1RAFB CT A	80.0
Robins Air Force Base	В	383742	1RAFB CT B	80.0
Rocky Mountain	1	383511	1ROCKY MTN 1	350.0
Rocky Mountain	2	383512	1ROCKY MTN 2	350.0
Rocky Mountain	3	383513	1ROCKY MTN 3	350.0
Rumble Road	1	383721	1RMBL CT1	92.9
Rumble Road	2	383722	1RMBL CT2	95.3
Santa Rosa	1	386087	1ST ROSA A	75.0
Santa Rosa	1A	386088	1ST ROSA B	150.0
Scherer	1	383681	1SCHERER 1	861.0
Scherer	2	383682	1SCHERER 2	875.0
Scherer	3	383683	1SCHERER 3	897.0
Scherer	4	383684	1SCHERER 4	905.0
Sewell Creek	21	383851	1SEWCRK 21	122.5
Sewell Creek	22	383852	1SEWCRK 22	124.8
Sewell Creek	11	383853	1SEWCRK 11	91.4
Sewell Creek	12	383854	1SEWCRK 12	91.3
Simon	1	383798	1SSFGEN	27.0
Sinclair Dam	1	383548	1SINCLAIR 1	19.3
Sinclair Dam	2	383549	1SINCLAIR 2	19.3
Smith Dam	1	384142	1SMITH GN	82.5

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Smith Dam	2	384142	1SMITH GN	82.5
SOWEGA	2	383792	1SOWEGA 2	49.3
SOWEGA	3	383802	1SOWEGA 3	49.0
Stone Container	А	385412	1STONECTR 13	8.0
Sweatt	А	386800	1SWEATT A	32.0
Sweatt	1	386801	1SWEATT 1	47.0
Sweatt	2	386802	1SWEATT 2	47.0
T.A. Smith I	1	383604	1CONASAUG1ST	292.5
T.A. Smith I	1A	383605	1CONASAUGA1A	162.3
T.A. Smith I	1B	383606	1CONASAUGA1B	162.3
T.A. Smith II	2	383607	1LOOPERS 2ST	294.1
T.A. Smith II	2A	383608	1LOOPERS 2A	162.3
T.A. Smith II	2B	383609	1LOOPERS 2B	162.3
Talbot County	1	383911	1TALBOT 1	95.5
Talbot County	2	383912	1TALBOT 2	95.9
Talbot County	3	383913	1TALBOT 3	94.7
Talbot County	4	383914	1TALBOT 4	96.9
Talbot County	5	383915	1TALBOT 5	95.6
Talbot County	6	383916	1TALBOT 6	95.7
Tallulah Falls Dam	1	383542	1TALLULAH 1	11.4
Tallulah Falls Dam	2	383543	1TALLULAH 2	11.4
Tallulah Falls Dam	3	383544	1TALLULAH 3	11.4
Tallulah Falls Dam	4	383545	1TALLULAH 4	11.4
Tallulah Falls Dam	5	383546	1TALLULAH 5	11.4

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Tallulah Falls Dam	6	383547	1TALLULAH 6	11.4
Tenaska - Heard County	1	383921	1TENSKA GA 1	157.5
Tenaska - Heard County	2	383922	1TENSKA GA 2	157.5
Tenaska - Heard County	3	383923	1TENSKA GA 3	157.5
Tenaska - Heard County	4	383924	1TENSKA GA 4	157.5
Tenaska - Heard County	5	383925	1TENSKA GA 5	157.5
Tenaska - Heard County	6	383926	1TENSKA GA 6	157.5
Terrora Dam	1	383530	1TERRORA	14.5
Theodore	1	386085	1THEO 1	64.0
Theodore	1A	386086	1THEO A	167.0
Thurlow Dam	1	386591	1THURLGEN	69.4
Thurlow Dam	3	386591	1THURLGEN	8.6
Tiger Creek	1	383855	1TIGER CK1	157.9
Tiger Creek	2	383856	1TIGER CK2	154.7
Tiger Creek	3	383857	1TIGER CK3	154.7
Tiger Creek	4	383858	1TIGER CK4	156.6
Tugalo Dam	1	383532	1TUGALO 1-2	22.3
Tugalo Dam	3	383533	1TUGALO 3-4	22.3
Vogtle	1	383751	1VOGTLE1	1158.7
Vogtle	2	383752	1VOGTLE2	1160.5
Wallace Dam	1	383536	1WALLACE 1-3	50.7
Wallace Dam	2	383536	1WALLACE 1-3	50.7
Wallace Dam	3	383536	1WALLACE 1-3	54.6
Wallace Dam	4	383537	1WALLACE 4-6	54.6

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Wallace Dam	5	383537	1WALLACE 4-6	50.7
Wallace Dam	6	383537	1WALLACE 4-6	50.7
Wansley	5A	383620	1WANSLEY 5A	49.0
Wansley	1	383621	1WANSLEY 1	889.0
Wansley	2	383622	1WANSLEY 2	889.0
Wansley	6	383623	1WANSLEY 6ST	223.7
Wansley	6A	383624	1WANSLEY 6A	175.0
Wansley	6B	383625	1WANSLEY 6B	175.0
Wansley	7	383626	1WANSLEY 7ST	225.5
Wansley	7A	383627	1WANSLEY 7A	175.0
Wansley	7B	383628	1WANSLEY 7B	175.0
Wansley	1	383629	1WANSLEY 9ST	205.5
Wansley	1A	383630	1WANSLEY 9A	145.7
Wansley	1B	383631	1WANSLEY 9B	145.7
Warthen	1	383743	1WARTHEN 1	69.0
Warthen	2	383744	1WARTHEN 2	69.0
Warthen	3	383745	1WARTHEN 3	69.0
Warthen	4	383746	1WARTHEN 4	69.0
Warthen	5	383747	1WARTHEN 5	69.0
Warthen	6	383748	1WARTHEN 6	69.0
Warthen	7	383749	1WARTHEN 7	69.0
Warthen	8	383750	1WARTHEN 8	69.0
Washington County	1	386081	1WASH CO 1	32.0
Washington County	1A	386082	1WASH CO 2	68.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Watson	А	386850	1WATSON A	33.0
Watson	1	386851	1WATSON 1	80.0
Watson	2	386852	1WATSON 2	81.0
Watson	3	386853	1WATSON 3	113.0
Watson	4	386854	1WATSON 4	265.0
Watson	5	386855	1WATSON 5	510.0
Weiss Dam	1	386511	1WEISSGEN	71.0
West Point Dam	1	383508	1W PT DAM	82.0
Wilson	А	383761	1WILSON A	46.0
Wilson	В	383762	1WILSON B	46.0
Wilson	С	383763	1WILSON C	46.0
Wilson	D	383764	1WILSON D	46.0
Wilson	E	383765	1WILSON E	46.0
Wilson	F	383766	1WILSON F	46.0
Yates	6	383646	1YATES 6	352.0
Yates	7	383647	1YATES 7	355.0
Yates Dam	1	384448	1YATE GEN	46.0
Yellow Pine	1	383650	1YELOWPINECT	100.0
Yonah Dam	1	383534	1YONAH	25.5

Appendix 9: TVA BAA

The following information provides a more granular overview of the TVA BAA input assumptions and transmission expansion plan that are incorporated in the development of the SERTP regional transmission plan.

Table A9.1: 2014 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage (TVA BAA)

ΤVΑ ΒΑΑ	100-120	121-150	151-199	200-299	300-399	400-550
	kV	kV	kV	kV	kV	kV
Transmission lines – New			158.1			50.0
(Circuit Mi.)			130.1			50.0
Transmission Lines – Uprates ¹			175.8			
(Circuit Mi.)			1/5.0			
Transformers ² – New						5
Transformers ² – Replacements						

¹A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line. ²The voltages shown represent the operating voltages on the high side terminals of the transformer

Table A9.2: Interface commitments¹ modeled in the SERTP Summer Peak models – TVA BAA

То	2015	2017	2019	2020	2022	2024
PJM	-400	-400	-400	-400	-400	-400
MISO	487	201	726	727	727	728
Duke Progress West	1	1	1	1	1	1
Southern	59	59	58	59	57	61
LG&E/KU	3	3	3	3	3	3
Brookfield/Smoky Mountain	-320	-320	-320	-320	-320	-320
Total	-170	-456	68	70	68	73
¹ A positive number represents a pet export	from the TVA BAA					

¹A positive number represents a net export from the TVA BAA

Southeastern Regional

2014

A detailed listing of the changes in generation assumptions within the TVA BAA throughout the ten (10) year planning horizon, including the year(s) in which they occur, is provided in Table A9.3 below. Furthermore, supplemental information regarding noteworthy generation expansion and retirements/decertifications included in the 2014 series set of SERTP powerflow models is provided below, while Table A9.4 provides a listing of generation assumptions based upon long-term, firm point-to-point commitments. The capacity (MW) values shown for each year reflect summer peak conditions. Table A9.5 provides a listing of all generators modeled in the 2015 Summer Peak powerflow model.

Table A9.3: Changes in Generation Assumptions Based Upon LSEs – TVA BAA

U			1		L					
Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Browns Ferry Unit 1	1103	1103	1103	1103	1237	1237	1237	1237	1237	1237
Browns Ferry Unit 2	1108	1108	1108	1108	1242	1242	1242	1242	1242	1242
Browns Ferry Unit 3	1108	1108	1108	1242	1242	1242	1242	1242	1242	1242
Watts Bar Unit 2	0	1155	1155	1155	1155	1155	1155	1155	1155	1155
Colbert 1 - 4	712	0	0	0	0	0	0	0	0	0
Colbert 5	0	0	0	0	0	0	0	0	0	0
Johnsonville 1-4	428	0	0	0	0	0	0	0	0	0
Widows Creek 8	0	0	0	0	0	0	0	0	0	0
Gleason 1	120	173	173	173	173	173	173	173	173	173
Gleason 2	100	173	173	173	173	173	173	173	173	173
Gleason 3	140	174	174	174	174	174	174	174	174	174

Noteworthy Generation Expansion

• TVA is building an additional 1200 MWs of nuclear generation at the Watts Bar Nuclear Site near Spring City, TN. The second unit is scheduled to be in commercial operation by 2016.

Noteworthy Generation Retirements/Decertifications

- TVA has announced plans to decertify the following generating units:
 - o Colbert Unit 5 in 2015



- \circ Widows Creek 8 in 2015
- o Johnsonville Units 1-4 in 2016
- \circ Colbert Units 1-4 in 2016

Table A9.4: Generation Assumptions Based Upon Expected Long-term, Firm Point-to-Point Commitments – TVA BAA

Site	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Reliant	287	525	525	525	525	525	525	525	525	525

Table A9.5: Generating Units Modeled in the 2015 Summer Peak Powerflow Model – TVA BAA

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Allen Fossil	1	364101	1ALLEN F1	267.0
Allen Fossil	2	364102	1ALLEN F2	267.0
Allen Fossil	3	364103	1ALLEN F3	267.0
Allen CT	1	364201	1ALLEN T1-4	18.0
Allen CT	2	364201	1ALLEN T1-4	18.0
Allen CT	3	364201	1ALLEN T1-4	18.0
Allen CT	4	364201	1ALLEN T1-4	18.0
Allen CT	5	364202	1ALLEN T5-8	18.0
Allen CT	6	364202	1ALLEN T5-8	18.0
Allen CT	7	364202	1ALLEN T5-8	18.0
Allen CT	8	364202	1ALLEN T5-8	18.0
Allen CT	9	364203	1ALLEN T9-12	18.0
Allen CT	10	364203	1ALLEN T9-12	18.0
Allen CT	11	364203	1ALLEN T9-12	18.0
Allen CT	12	364203	1ALLEN T9-12	18.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Allen CT	13	364204	1ALLENT13-16	18.0
Allen CT	14	364204	1ALLENT13-16	18.0
Allen CT	15	364204	1ALLENT13-16	18.0
Allen CT	16	364204	1ALLENT13-16	18.0
Allen CT	17	364205	1ALLEN T17	50.0
Allen CT	18	364206	1ALLEN T18	50.0
Allen CT	19	364207	1ALLEN T19	50.0
Allen CT	20	364208	1ALLEN T20	50.0
Apalachia Hydro	1	364421	1APALACH H1	41.2
Apalachia Hydro	2	364422	1APALACH H2	41.2
Barkley Hydro	1	364601	1BARKLEY H1	35.0
Barkley Hydro	2	364602	1BARKLEY H2	35.0
Barkley Hydro	3	364603	1BARKLEY H3	35.0
Barkley Hydro	4	364604	1BARKLEY H4	35.0
Blue Ridge Hydro	1	364423	1BLUERIDG H1	16.0
Boone Hydro	1	364424	1BOONE H1	37.8
Boone Hydro	2	364425	1BOONE H2	37.8
Boone Hydro	3	364426	1BOONE H3	37.8
Browns Ferry Nuclear	1	364001	1BR FERRY N1	1137.6
Browns Ferry Nuclear	2	364002	1BR FERRY N2	1141.4
Browns Ferry Nuclear	3	364003	1BR FERRY N3	1143.5
Brownsville CT	1	364701	1BROWNSVL T1	118.0
Brownsville CT	2	364702	1BROWNSVL T2	118.0
Brownsville CT	3	364703	1BROWNSVL T3	119.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Brownsville CT	4	364704	1BROWNSVL T4	119.0
Bull Run Fossil	1A	364109	1BULLRUN F1H	463.6
Bull Run Fossil	1B	364110	1BULLRUN F1L	465.7
Caledonia CC	1	364801	1COGCALED T1	162.0
Caledonia CC	2	364802	1COGCALED S1	114.5
Caledonia CC	3	364803	1COGCALED T2	162.0
Caledonia CC	4	364804	1COGCALED S2	114.5
Caledonia CC	5	364805	1COGCALED T3	162.0
Caledonia CC	6	364806	1COGCALED S3	114.5
Center Hill Hydro	1	364605	1CENTHILL H1	45.0
Center Hill Hydro	2	364606	1CENTHILL H2	45.0
Center Hill Hydro	3	364607	1CENTHILL H3	45.0
Chatuge Hydro	1	364428	1CHATUGE H1	13.9
Cheatham Hydro	1	364608	1CHEATHAM H1	12.0
Cheatham Hydro	2	364609	1CHEATHAM H2	12.0
Cheatham Hydro	3	364610	1CHEATHAM H3	12.0
Cherokee Hydro	1	364511	1CHEROKEE H1	37.0
Cherokee Hydro	2	364512	1CHEROKEE H2	39.8
Cherokee Hydro	3	364513	1CHEROKEE H3	39.8
Cherokee Hydro	4	364514	1CHEROKEE H4	36.8
Chickamauga Hydro	1	364431	1CHICKAMG H1	35.4
Chickamauga Hydro	2	364432	1CHICKAMG H2	35.4
Chickamauga Hydro	3	364433	1CHICKAMG H3	35.4
Chickamauga Hydro	4	364434	1CHICKAMG H4	35.4

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Choctaw CC	1	364721	1SUEZCHOC T1	225.0
Choctaw CC	2	364722	1SUEZCHOC T2	225.0
Choctaw CC	3	364723	1SUEZCHOC S1	240.0
Colbert Fossil	1	364111	1COLBERT F1	190.0
Colbert Fossil	2	364112	1COLBERT F2	190.0
Colbert Fossil	3	364113	1COLBERT F3	190.0
Colbert Fossil	4	364114	1COLBERT F4	190.0
Colbert Fossil	5A	364115	1COLBERT F5A	257.4
Colbert Fossil	5B	364116	1COLBERT F5B	256.0
Colbert CT	1	364211	1COLBERT T1	49.0
Colbert CT	2	364212	1COLBERT T2	49.0
Colbert CT	3	364213	1COLBERT T3	49.0
Colbert CT	4	364214	1COLBERT T4	49.0
Colbert CT	5	364215	1COLBERT T5	49.0
Colbert CT	6	364216	1COLBERT T6	49.0
Colbert CT	7	364217	1COLBERT T7	49.0
Colbert CT	8	364218	1COLBERT T8	49.0
Cordell Hull Hydro	1	364611	1CORDELL H1	33.0
Cordell Hull Hydro	2	364612	1CORDELL H2	33.0
Cordell Hull Hydro	3	364613	1CORDELL H3	33.0
Cumberland Fossil	1	364119	1CUMBRL F1HL	662.5
Cumberland Fossil	2	364119	1CUMBRL F1HL	662.5
Cumberland Fossil	3	364120	1CUMBRL F2HL	664.0
Cumberland Fossil	4	364120	1CUMBRL F2HL	653.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Dale Hollow Hydro	1	364614	1DALE HOL H1	18.0
Dale Hollow Hydro	2	364615	1DALE HOL H2	18.0
Dale Hollow Hydro	3	364616	1DALE HOL H3	18.0
Decatur Energy Center CC	1	364731	1DEC CT1	160.0
Decatur Energy Center CC	2	364732	1DEC CT2	160.0
Decatur Energy Center CC	3	364733	1DEC CT3	160.0
Decatur Energy Center CC	4	364734	1DEC STG	240.0
Douglas Hydro	1	364435	1DOUGLAS H1	45.8
Douglas Hydro	2	364436	1DOUGLAS H2	45.8
Douglas Hydro	3	364437	1DOUGLAS H3	45.8
Douglas Hydro	4	364438	1DOUGLAS H4	45.8
Fontana Hydro	1	364439	1FONTANA H1	101.4
Fontana Hydro	2	364440	1FONTANA H2	101.4
Fontana Hydro	3	364441	1FONTANA H3	101.4
Fort Loudoun Hydro	1	364442	1FTLOUD H1	40.0
Fort Loudoun Hydro	3	364443	1FTLOUD H3	45.3
Fort Loudoun Hydro	2	364444	1FTLOUD H2	37.7
Fort Loudoun Hydro	4	364445	1FTLOUD H4	45.3
Fort Patrick Henry Hydro	1	364446	1FT PAT H1-2	20.4
Fort Patrick Henry Hydro	2	364446	1FT PAT H1-2	20.3
Gallatin Fossil	1	364121	1GALLATIN F1	240.0
Gallatin Fossil	2	364122	1GALLATIN F2	240.0
Gallatin Fossil	3	364123	1GALLATIN F3	281.0
Gallatin Fossil	4	364124	1GALLATIN F4	281.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Gallatin CT	1	364221	1GALLATIN T1	77.0
Gallatin CT	2	364222	1GALLATIN T2	77.0
Gallatin CT	3	364223	1GALLATIN T3	77.0
Gallatin CT	4	364224	1GALLATIN T4	77.0
Gallatin CT	5	364225	1GALLATIN T5	84.0
Gallatin CT	6	364226	1GALLATIN T6	84.0
Gallatin CT	7	364227	1GALLATIN T7	84.0
Gallatin CT	8	364228	1GALLATIN T8	84.0
Gleason CT	1	364231	1GLEASON T1	120.0
Gleason CT	2	364232	1GLEASON T2	100.0
Gleason CT	3	364233	1GLEASON T3	140.0
Great Falls Hydro	1	364447	1GFALLS H1-2	15.9
Great Falls Hydro	2	364447	1GFALLS H1-2	19.5
Guntersville Hydro	1	364448	1GUNTERSV H1	28.8
Guntersville Hydro	2	364449	1GUNTERSV H2	30.6
Guntersville Hydro	3	364450	1GUNTERSV H3	29.8
Guntersville Hydro	4	364451	1GUNTERSV H4	31.3
Hiwassee Hydro	1	364452	1HIWASSEE H1	87.7
Hiwassee Hydro	2	364453	1HIWASSEE H2	89.7
John Sevier Fossil	3	364133	1J SEVIER F3	188.0
John Sevier Fossil	4	364134	1J SEVIER F4	188.0
John Sevier CC	1	364321	1J SEVIER C1	165.0
John Sevier CC	2	364322	1J SEVIER C2	165.0
John Sevier CC	3	364323	1J SEVIER C3	165.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
John Sevier CC	4	364324	1J SEVIER S4	383.0
Johnsonville Fossil	1	364141	1JVILLE F1	117.0
Johnsonville Fossil	2	364142	1JVILLE F2	117.0
Johnsonville Fossil	3	364143	1JVILLE F3	117.0
Johnsonville Fossil	4	364144	1JVILLE F4	117.0
Johnsonville Fossil	5	364145	1JVILLE F5	117.0
Johnsonville Fossil	6	364146	1JVILLE F6	117.0
Johnsonville Fossil	7	364147	1JVILLE F7	153.0
Johnsonville Fossil	8	364148	1JVILLE F8	153.0
Johnsonville Fossil	9	364149	1JVILLE F9	153.0
Johnsonville Fossil	10	364150	1JVILLE F10	153.0
Johnsonville CT	1	364241	1JVILLE T1	56.0
Johnsonville CT	2	364242	1JVILLE T2	56.0
Johnsonville CT	3	364243	1JVILLE T3	56.0
Johnsonville CT	4	364244	1JVILLE T4	56.0
Johnsonville CT	5	364245	1JVILLE T5	56.0
Johnsonville CT	6	364246	1JVILLE T6	56.0
Johnsonville CT	7	364247	1JVILLE T7	56.0
Johnsonville CT	8	364248	1JVILLE T8	56.0
Johnsonville CT	9	364249	1JVILLE T9	56.0
Johnsonville CT	10	364250	1JVILLE T10	56.0
Johnsonville CT	11	364251	1JVILLE T11	56.0
Johnsonville CT	12	364252	1JVILLE T12	56.0
Johnsonville CT	13	364253	1JVILLE T13	56.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Johnsonville CT	14	364254	1JVILLE T14	56.0
Johnsonville CT	15	364255	1JVILLE T15	56.0
Johnsonville CT	16	364256	1JVILLE T16	56.0
Johnsonville CT	17	364257	1JVILLE T17	84.0
Johnsonville CT	18	364258	1JVILLE T18	84.0
Johnsonville CT	19	364259	1JVILLE T19	84.0
Johnsonville CT	20	364260	1JVILLE T20	84.0
Kemper CT	1	364261	1KEMPER T1	82.0
Kemper CT	2	364262	1KEMPER T2	82.0
Kemper CT	3	364263	1KEMPER T3	82.0
Kemper CT	4	364264	1KEMPER T4	82.0
Kentucky Hydro	1	364456	1KY HYDRO H1	43.4
Kentucky Hydro	2	364457	1KY HYDRO H2	43.5
Kentucky Hydro	3	364458	1KY HYDRO H3	43.5
Kentucky Hydro	4	364459	1KY HYDRO H4	44.9
Kentucky Hydro	5	364460	1KY HYDRO H5	43.0
Kingston Fossil	1	364151	1KINGSTON F1	155.7
Kingston Fossil	2	364152	1KINGSTON F2	140.0
Kingston Fossil	3	364153	1KINGSTON F3	140.0
Kingston Fossil	4	364154	1KINGSTON F4	140.0
Kingston Fossil	5	364155	1KINGSTON F5	186.0
Kingston Fossil	6	364156	1KINGSTON F6	186.0
Kingston Fossil	7	364157	1KINGSTON F7	186.0
Kingston Fossil	8	364158	1KINGSTON F8	186.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Kingston Fossil	9	364159	1KINGSTON F9	199.6
Kyles Ford Hydro	1	364907	1KYLESF 1-11	20.0
Lagoon Creek CT	1	364271	1LAG CRK T1	85.0
Lagoon Creek CT	2	364272	1LAG CRK T2	85.0
Lagoon Creek CT	3	364273	1LAG CRK T3	85.0
Lagoon Creek CT	4	364274	1LAG CRK T4	85.0
Lagoon Creek CT	5	364275	1LAG CRK T5	85.0
Lagoon Creek CT	6	364276	1LAG CRK T6	85.0
Lagoon Creek CT	7	364277	1LAG CRK T7	85.0
Lagoon Creek CT	8	364278	1LAG CRK T8	85.0
Lagoon Creek CT	9	364279	1LAG CRK T9	84.0
Lagoon Creek CT	10	364280	1LAG CRK T10	84.0
Lagoon Creek CT	11	364281	1LAG CRK T11	84.0
Lagoon Creek CT	12	364282	1LAG CRK T12	84.0
Lagoon Creek CC	1	364301	1LAG CRK CT1	160.0
Lagoon Creek CC	2	364302	1LAG CRK CT2	160.0
Lagoon Creek CC	3	364303	1LAG CRK STG	220.0
Magnolia CC	1	364761	1MAGNOL T1	171.0
Magnolia CC	2	364762	1MAGNOL T2	171.0
Magnolia CC	3	364763	1MAGNOL T3	171.0
Magnolia CC	4	364764	1MAGNOL S1	135.0
Magnolia CC	5	364765	1MAGNOL S2	135.0
Magnolia CC	6	364766	1MAGNOL S3	135.0
Marshall CT	1	364291	1MARSHALL T1	84.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Marshall CT	2	364292	1MARSHALL T2	84.0
Marshall CT	3	364293	1MARSHALL T3	84.0
Marshall CT	4	364294	1MARSHALL T4	84.0
Marshall CT	5	364295	1MARSHALL T5	84.0
Marshall CT	6	364296	1MARSHALL T6	84.0
Marshall CT	7	364297	1MARSHALL T7	84.0
Marshall CT	8	364298	1MARSHALL T8	84.0
Melton Hill Hydro	1	364461	1MELTON H H1	39.5
Melton Hill Hydro	2	364462	1MELTON H H2	39.7
Middle Point Landfill	1	364909	1MIDLPT G1-2	2.2
Morgan Energy Center CC	1	364771	1MEC CT1	160.0
Morgan Energy Center CC	2	364772	1MEC CT2	160.0
Morgan Energy Center CC	3	364773	1MEC CT3	160.0
Morgan Energy Center CC	4	364774	1MEC STG	240.0
Nickajack Hydro	1	364521	1NICKAJACK 1	30.7
Nickajack Hydro	2	364522	1NICKAJACK 2	27.3
Nickajack Hydro	3	364523	1NICKAJACK 3	26.0
Nickajack Hydro	4	364524	1NICKAJACK 4	26.1
Norris Hydro	1	364465	1NORRIS H1	63.5
Norris Hydro	2	364466	1NORRIS H2	63.5
North Albertville Diesel	1	364910	1NALB DS#1-4	3.7
Nottely Hydro	1	364467	1NOTTELY H1	19.2
Ocoee 1 Hydro	1	364468	10C0EE#1H1-3	4.8
Ocoee 1 Hydro	2	364468	10C0EE#1H1-3	4.8

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Ocoee 1 Hydro	3	364468	10C0EE#1H1-3	4.8
Ocoee 1 Hydro	4	364469	10C0EE#1H4-5	4.8
Ocoee 1 Hydro	5	364469	10C0EE#1H4-5	4.8
Ocoee 2 Hydro	1	364470	10C0EE#2H1-2	10.8
Ocoee 2 Hydro	2	364470	10C0EE#2H1-2	12.6
Ocoee 3 Hydro	1	364471	10C0EE #3 H1	28.6
Old Hickory Hydro	1	364617	10LDHICKH1-2	25.0
Old Hickory Hydro	2	364617	10LDHICKH1-2	25.0
Old Hickory Hydro	3	364618	10LDHICKH3-4	25.0
Old Hickory Hydro	4	364618	10LDHICKH3-4	25.0
Paradise Fossil	1A	364160	1PARADIS F1H	341.5
Paradise Fossil	1B	364161	1PARADIS F1L	341.5
Paradise Fossil	2A	364162	1PARADIS F2H	328.5
Paradise Fossil	2B	364163	1PARADIS F2L	328.5
Paradise Fossil	3A	364164	1PARADISF3AB	527.2
Paradise Fossil	3B	364164	1PARADISF3AB	525.1
Percy Priest Hydro	1	364619	1PERCY PR H1	30.0
Pickwick Hydro	1	364472	1PICKWICK H1	44.3
Pickwick Hydro	2	364473	1PICKWICK H2	42.9
Pickwick Hydro	3	364474	1PICKWICK H3	42.8
Pickwick Hydro	4	364475	1PICKWICK H4	43.6
Pickwick Hydro	5	364476	1PICKWICK H5	43.7
Pickwick Hydro	6	364477	1PICKWICK H6	43.2
Raccoon Mountain PS	1	364401	1RACCOON P1	413.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Raccoon Mountain PS	2	364402	1RACCOON P2	413.0
Raccoon Mountain PS	3	364403	1RACCOON P3	413.0
Raccoon Mountain PS	4	364404	1RACCOON P4	413.0
Red Hills Fossil	1	364780	1REDHILLS F1	482.5
Reliant CC	1	364781	1RELIANT T1	150.0
Reliant CC	2	364782	1RELIANT T2	150.0
Reliant CC	3	364783	1RELIANT T3	137.0
Reliant CC	4	364784	1RELIANT S1	289.0
Sequoyah Nuclear	1	364011	1SEQUOYAH N1	1200.2
Sequoyah Nuclear	2	364012	1SEQUOYAH N2	1178.2
Shawnee Fossil	1	364171	1SHAWNEE F1	143.0
Shawnee Fossil	2	364172	1SHAWNEE F2	143.0
Shawnee Fossil	3	364173	1SHAWNEE F3	143.0
Shawnee Fossil	4	364174	1SHAWNEE F4	143.0
Shawnee Fossil	5	364175	1SHAWNEE F5	143.0
Shawnee Fossil	6	364176	1SHAWNEE F6	143.0
Shawnee Fossil	7	364177	1SHAWNEE F7	143.0
Shawnee Fossil	8	364178	1SHAWNEE F8	143.0
Shawnee Fossil	9	364179	1SHAWNEE F9	143.0
Shawnee Fossil	10	364180	1SHAWNEE F10	126.0
South Holston Hydro	1	364478	1SHOLSTON H1	44.4
Southaven CC	1	364791	1S HAVEN T1	170.0
Southaven CC	2	364792	1S HAVEN T2	170.0
Southaven CC	3	364793	1S HAVEN T3	170.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Southaven CC	4	364794	1S HAVEN S1	114.0
Southaven CC	5	364795	1S HAVEN S2	114.0
Southaven CC	6	364796	1S HAVEN S3	114.0
Tims Ford Hydro	1	364479	1TIMSFORD H1	40.1
Watauga Hydro	1	364480	1WATAUGA H1	37.9
Watauga Hydro	2	364481	1WATAUGA H2	29.1
Watts Bar Nuclear	1	364021	1WBNP N1	1201.1
Watts Bar Hydro	1	364482	1WBHP H1	39.3
Watts Bar Hydro	2	364483	1WBHP H2	39.3
Watts Bar Hydro	3	364484	1WBHP H3	39.3
Watts Bar Hydro	4	364485	1WBHP H4	39.2
Watts Bar Hydro	5	364486	1WBHP H5	39.2
Wheeler Hydro	1	364487	1WHEELR H1-2	38.8
Wheeler Hydro	2	364487	1WHEELR H1-2	33.2
Wheeler Hydro	3	364488	1WHEELR H3-4	33.6
Wheeler Hydro	4	364488	1WHEELR H3-4	33.4
Wheeler Hydro	5	364489	1WHEELR H5-6	34.7
Wheeler Hydro	6	364489	1WHEELR H5-6	34.6
Wheeler Hydro	7	364490	1WHEELR H7-8	34.4
Wheeler Hydro	8	364490	1WHEELR H7-8	34.5
Wheeler Hydro	9	364491	1WHEELRH9-11	41.9
Wheeler Hydro	10	364491	1WHEELRH9-11	41.9
Wheeler Hydro	11	364491	1WHEELRH9-11	41.9
Widows Creek Fossil	7A	364187	1WID CRK F7H	253.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Widows Creek Fossil	7B	364188	1WID CRK F7L	253.0
Widows Creek Fossil	8A	364189	1WID CRK F8A	251.0
Widows Creek Fossil	8B	364190	1WID CRK F8B	251.0
Wilbur Hydro	1	364492	1WILBUR H1-3	1.4
Wilbur Hydro	2	364492	1WILBUR H1-3	1.4
Wilbur Hydro	3	364492	1WILBUR H1-3	1.3
Wilbur Hydro	4	364493	1WILBUR H4	7.0
Wilson Hydro	1	364494	1WILSON H1-2	22.0
Wilson Hydro	2	364494	1WILSON H1-2	22.3
Wilson Hydro	3	364495	1WILSON H3-4	23.0
Wilson Hydro	4	364495	1WILSON H3-4	22.0
Wilson Hydro	5	364496	1WILSON H5-6	30.3
Wilson Hydro	6	364496	1WILSON H5-6	30.4
Wilson Hydro	7	364497	1WILSON H7-8	29.1
Wilson Hydro	8	364497	1WILSON H7-8	30.7
Wilson Hydro	9	364498	1WILSON 9-10	29.6
Wilson Hydro	10	364498	1WILSON 9-10	29.5
Wilson Hydro	11	364499	1WILSON11-12	29.2
Wilson Hydro	12	364499	1WILSON11-12	29.2
Wilson Hydro	13	364500	1WILSON13-14	29.4
Wilson Hydro	14	364500	1WILSON13-14	29.4
Wilson Hydro	15	364501	1WILSON15-16	29.2
Wilson Hydro	16	364501	1WILSON15-16	29.2
Wilson Hydro	17	364502	1WILSON17-18	29.0

Plant	Unit	Bus #	Bus Name	Pmax (MW)
Wilson Hydro	18	364502	1WILSON17-18	29.0
Wilson Hydro	19	364503	1WILSON H19	55.0
Wilson Hydro	20	364504	1WILSON H20	56.1
Wilson Hydro	21	364505	1WILSON H21	55.0
Windrock Turbines	1	364915	1WINDROCK WG	27.0
Wolf Creek Hydro	1	364620	1WOLFCR H1-2	35.0
Wolf Creek Hydro	2	364620	1WOLFCR H1-2	35.0
Wolf Creek Hydro	3	364621	1WOLFCR H3-4	35.0
Wolf Creek Hydro	4	364621	1WOLFCR H3-4	35.0
Wolf Creek Hydro	5	364622	1WOLFCR H5-6	35.0
Wolf Creek Hydro	6	364622	1WOLFCR H5-6	35.0