



# Appendix D

## Projects Investigated for Resource Supply Options Studied

December 6, 2007

Resource Supply Options – 2016 Hypothetical Import Scenarios Studied													
Imports to Progress East													
Primary Alternative Investigated	Issue Identified	TO	Lead Time (years)	Duke 600 MW		Duke 1,200 MW		PJM 200 MW		SCPSA 400 MW		SCEG 600 MW	
				Date Needed	(\$M)	Date Needed	(\$M)	Date Needed	(\$M)	Date Needed	(\$M)	Date Needed	(\$M)
N/A	None.	---	---	---	---	---	---	---	---	---	---	---	---

Resource Supply Options – 2016 Hypothetical Import Scenarios Studied													
Imports to Duke													
Primary Alternative Investigated	Issue Identified	TO	Lead Time (years)	CPLE 100 MW		SOCO 600 MW		PJM 600 MW		TVA 600 MW		SCEG 600 MW	
				Date Needed	(\$M)								
N/A	None.	---	---	---	---	---	---	---	---	---	---	---	---

Resource Supply Options – 2016 Hypothetical Generation Scenarios Studied													
In Progress East <sup>1,2</sup>													
Primary Alternative Investigated	Issue Identified	TO	Lead Time (years)	Scotland County 450 MW		Cumberland County 450 MW		Wilson County 450 MW		Johnston County 450 MW		Robeson County 600 MW	
				Date Needed	(\$M)	Date Needed	(\$M)	Date Needed	(\$M)	Date Needed	(\$M)	Date Needed	(\$M)
Construct Weatherspoon-Cumberland 230 kV line and Cumberland-Fayetteville East 230 kV line	Thermal loadings on Fayetteville-Fayetteville East 230 kV line and Weatherspoon Plant-Fayetteville DuPont 115 kV line	Progress	5	---	---	---	---	---	---	---	---	2016	65
Install 115 kV series reactor on Weatherspoon Plant-Fayetteville Dupont 115 kV line and Weatherspoon-Raeford 115 kV line	Thermal load on Weatherspoon-Raeford 115 kV line	Progress	4	---	---	---	---	---	---	---	---	2016	5
Install 115 kV series reactor at Weatherspoon on Wagram 115 kV terminal	Thermal loading on Raeford-Wagram 115 kV line	Progress	4	2016	2	---	---	---	---	---	---	---	---

Resource Supply Options – 2016 Hypothetical Generation Scenarios Studied													
In Duke													
Primary Alternative Investigated	Issue Identified	TO	Lead Time (years)	Guilford County 150 MW		Davidson County 150 MW		Union County 150 MW		Gaston County 150 MW		Rockingham County 800 MW	
				Date Needed	(\$M)	Date Needed	(\$M)	Date Needed	(\$M)	Date Needed	(\$M)	Date Needed	(\$M)
N/A	None.	---	---	---	---	---	---	---	---	---	---	---	---

<sup>1</sup> The tables in Appendix D reflect the date the project is needed in order to implement the resource supply option studied.

<sup>2</sup> The estimated cost is in nominal dollars which reflects the sum of the estimated annual cash flows over the expected development period for the specific project (typically 2 – 5 years), including direct costs, loadings and overheads; but not including AFUDC. Each year's cash flow is escalated to the year of the expenditures. The sum of the expected cash flows is the estimated cost. Also, the projects required to accommodate each resource supply option were determined independently. Therefore, the projects and cost estimates do not reflect the requirements for simultaneously accommodating two or more resource supply options.