



NCTPC Update on Major Projects

06/28/07

NCTPC Update on Major Projects – Continued (Estimated Cost > \$10M)

Project ID	Reliability Project	Issue Resolved	Status	Transmission Owner	Original Planned In-Service Date¹	Current Planned In-Service Date
0001	Marion-Whiteville 230 kV Line, Establish a new 230 kV line initially operated at 115 kV	Address loading on Marion-Whiteville 115 kV	Line was energized at 115kV on 6/7/2007. Line will be converted to 230kV operation in 2008.	Progress	6/1/2007	In-service on 6/7/2007
0002	Lee Sub-Wommack 230 kV South Line, Reconductor existing line	Address loading on Lee-Wommack 230 kV South Line	Project is on schedule. Construction is approximately 60% complete.	Progress	5/1/2008	5/1/2008
0003	Durham 500 kV Sub, Establish 500 kV at Durham & loop-in the Mayo Plant-Wake 500 kV Line	Address loading on Wake 500/230 kV transformers	Project is on schedule. Substation construction is underway with relay construction scheduled to begin in July 2007.	Progress	6/1/2008	6/1/2008
0004	Clinton-Lee 230 kV Line, Construct new line	Address loading on Clinton-Vander 115 kV line & Lee Sub-Wallace 115 kV Line	Contingency loading in recent studies has been lower than in previous studies allowing for this project to be delayed one year to 2010.	Progress	6/1/2009	6/1/2010
0005	Rockingham-West End 230 kV Line, Construct Wadesboro Bowman School 230 kV Tap & uprate the portion between the tap & Rockingham 230 kV Sub	Address loading on Rockingham-Blewett-Tillery 115 kV corridor	Project is on schedule. Right-of-way acquisition is approximately 90% complete. Clearing will begin in fall 2007.	Progress	6/1/2009	6/1/2009
0007	Richmond 500 kV Substation, Install 500 kV series reactor in Richmond-Newport 500 kV Line	Address large post contingency phase angle differences at times of high 500 kV flow	Conceptual design is nearing completion.	Progress	6/1/2010	6/1/2010
0008	Greenville-Kinston Dupont 230 kV Line, Construct new 230 kV line	Address loading on Greenville-Everetts 230 kV Line	All right-of-way has been acquired.	Progress	6/1/2011	6/1/2011
0009	Henderson-Kerr Dam 115 kV Line, Construct new Warrenton 115 kV Tap & add line switches providing alternate service to Warrenton area	Address voltage in Warrenton area	Project is on schedule. Survey is complete, right-of way acquisition is underway.	Progress	6/1/2011	6/1/2011
0010	Rockingham-West End 230 kV East Line, Construct new 230 kV line	Address loading on Rockingham-West End 230 kV Line	Project is on schedule. Public communication is underway. Route has been selected and announced. Survey to begin in July 2007.	Progress	6/1/2011	6/1/2011
0010A	Harris-RTP 230 kV Line, Construct new 230 kV line	Address the need for new transmission source to serve rapidly growing load in the western Wake County area.	Project plan under development.	Progress	6/1/2011	6/1/2011

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0010B	Pleasant Garden-Asheboro 230 kV Line and Replace Asheboro 230/115 kV transformers, Construct new 230 kV line	Address loadings on Badin/Tillery/Asheboro 115 kV corridor, Rockingham/Oakboro corridor, Durham/RTP corridor and voltage in the Asheboro area. Defers need for Cape Fear-Siler City 230 kV line out of the 10 year plan.	Additional detailed modeling/screening being performed. To date, project continues to be the preferred solution. Memorandum of understanding is in place.	Progress & Duke	6/1/2011	6/1/2011
0011	Asheville-Enka 230 kV Line, Construct new 230 kV line & establish 230 kV at Enka 115 kV	Address Asheville 230 kV transformer loading	Project is on schedule. No activities taking place at this time.	Progress	12/1/2011	12/1/2011
0013	Replace Antioch 500/230 kV transformers #1 & #2	Contingency loading of the remaining Antioch bank on loss of the parallel bank	No activities taking place at this time. Recent studies confirm that the in-service date of 2013 remains accurate. Timing of the need for the upgrade will continue to be monitored and action taken considering appropriate lead time required (~5 years).	Duke	6/1/2013	6/1/2013
0014	Reconductor London Creek 230 kV Lines (Peach Valley-Riverview #1 & #2)	Contingency loading of the remaining line on loss of the parallel line when an Oconee unit is off line	No activities taking place at this time. Recent studies confirm that the in-service date of 2015 remains accurate. Timing of the need for the upgrade will continue to be monitored and action taken considering appropriate lead time required (~4 years).	Duke	6/1/2015	6/1/2015

¹ Planned in-service date reported Appendix 1 to the “Supplemental Report on the NCTPC 2006 Collaborative Transmission Plan” dated April 26, 2007.