| **2010 Collaborative Transmission Plan – Major Project Listing (Estimated Cost > $10M)** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Project ID** | **Reliability Project** | **Issue Resolved** | **Status1** | **Transmission**  **Owner** | **Projected In-Service Date** | **Estimated Cost ($M)2** | **Project Lead Time (Years)3** |
| 0011 | Asheville-Enka,  Convert 115 kV Line to 230 kV,  Construct new 115 kV line | Address Asheville 230/115 kV transformer loading | Partial  In-Service | Progress | 12/1/2010  12/1/2012 | 36 | -  2 |
| 0010 | Rockingham-West End 230kV East Line, Construct Line | Address loading on Rockingham-West End 230 kV Line | In-Service | Progress | 6/1/2011 | 27 | .5 |
| 0010B | Asheboro-Pleasant Garden 230 kV Line, Construct new line, at Asheboro replace 2-200 MVA 230/115 kV Banks with 2-300 MVA Banks | Address loading on Badin-Tillery l00kV lines, Biscoe-Asheboro 115 kV line, Tillery-Biscoe 115 kV corridor, Newport-Richmond 500 kV line, Wake 500/230 banks | In-Service | Progress  &  Duke | 6/1/2011 | 24 | .5 |
| 0021 | Ft Bragg Woodruff Street- Richmond 230 kV Line | Address loading of several transmission lines out of the Richmond/Rockingham area due to Richmond Co. Combined Cycle generator | In-Service | Progress | 6/1/2011 | 76 | .5 |
| 0004 | Clinton-Lee 230kV Line, Construct line | Address loading on Clinton-Vander 115 kV line & Lee Sub-Wallace 115 kV line | Underway | Progress | 12/1/2011 | 21 | 1 |
| 0026 | Brunswick 1 - Castle Hayne 230kV Line, Construct New Cape Fear River Crossing | Address loading on Sutton Plant-Castle Hayne 230 kV Line | Underway | Progress | 12/31/2012 | 25 | 1.5 |
| 0022 | Jacksonville Static VAR Compensator | Address inadequate dynamic voltage recovery after system faults during periods of high imports | Underway | Progress | 6/1/2013 | 30 | 1.5 |
| 0023 | Folkstone 230/115kV Substation | Address voltage on Castle Hayne-Jacksonville City 115kV Line | Underway | Progress | 12/1/2012 | 21 | 2.5 |
| 0010A | Harris Plant-RTP 230 kV Line,  Establish a new 230 kV line by utilizing the Amberly 230kV Tap, converting existing Green Level 115kV Feeder to 230 kV operation, construction of new 230 kV line, remove 230/115 kV transformation and connection at Apex US1 | Address the need for new transmission source to serve rapidly growing load in the western Wake County area; helps address loading on Cary Regency Park-Durham 230 kV line | Underway | Progress | 6/1/2014 | 57 | 4 |
| 0008 | Greenville-Kinston Dupont 230 KV Line , Construct line | Address loading on Greenville-Everetts 230 kV Line | Planned | Progress | 6/1/2017 | 20 | 4 |
| 0024 | Durham-RTP 230kV Line, Reconductor | Address loading on the Durham-RTP 230kV Line | Planned | Progress | 6/1/2021 | 15 | 4 |
| 0016 | Wake 500 kV Sub, Add 3rd 500/230 kV Transformer Bank | Address loading on existing Wake 500/230 banks | ***Removed*** | Progress |  |  |  |
| 0019 | Cape Fear-West End 230 kV West Line, Install a 230 kV Series Reactor at West End 230 kV Sub | Address loading on Rockingham-West End 230 kV and Cape Fear-West End 230 kV lines | ***Removed*** | Progress |  |  |  |
| 0018 | Rockingham-Lilesville 230 kV Line, Add third line | Address loading on Lilesville-Rockingham 230 kV lines | ***Removed*** | Progress |  |  |  |
| 0025 | Reconductor Elon 100 kV Lines (Sadler Tie-Glen Raven Main #1 & #2) | Following construction of additional generation at Dan River Steam Station, contingency loading of the remaining line on loss of the parallel line | In-Service | Duke | 6/1/2011 | 16 | - |
| 0027 | Reconductor Caesar 230 kV Lines  (Pisgah Tie-Shiloh Switching Station #1 & #2) | Contingency loading of the remaining line on loss of the parallel line during high imports to Progress West. | Underway | Duke | 12/1/2013 | 20 | 2.5 |
| 0014 | Reconductor London Creek 230 kV Lines  (Peach Valley Tie-Riverview Switching Station #1 & #2) | Contingency loading of the remaining line on loss of the parallel line when a 230 kV connected Oconee unit is off line. | Planned | Duke | 6/1/2020 | 43 | 4.0 |
| TOTAL |  |  |  |  |  | **431** |  |

1 Status: *Underway:* Projects with this status range from the Transmission Owner having some money in its current year budget for the project to the Transmission Owner having completed some construction

activities for the project. *Planned:* Projects with this status do not have money in the Transmission Owner’s current year budget; and the project is subject to change.

2 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.

3 For projects with a status of Underway, the project lead time is the time remaining to complete construction and place in-service.