



Generator Siting On the PEC (CP&L) Transmission System

Carolina Power & Light Company (CP&L), doing business as Progress Energy Carolinas, Inc. (PEC), is providing the following list of favorable generation location sites.

PEC has identified sites on the PEC Transmission System for the interconnection of new generation. Some sites are listed based on interconnection studies that PEC has previously conducted. Other sites have not been studied, but are included based upon PEC's current knowledge of, and experience with, the PEC Transmission System.

Generation located at these sites appears to be less likely to cause severe system impacts and necessitate extensive transmission network upgrades. There may be other sites (which are not listed) that may offer similar capabilities. It must be emphasized that the full extent of the impact of a particular generation facility on the system and any necessary transmission system improvements cannot be determined absent a specific study associated with the generation facility as provided for in PEC's OATT Large Generator Interconnection Procedures. The ultimate disposition of transmission service associated with a generator also impacts needed transmission system improvements.

Persons interested in interconnecting generation should independently evaluate these sites as they would evaluate any potential generation site. To facilitate such studies, customers can obtain transmission cases upon request from the Southeastern Electric Reliability Council, PEC's NERC Regional Office (SERC, <http://www.serc1.org/>). Potential generators assume all risks should they decide to pursue a generator interconnection request at these sites or others. Moreover, this list of sites reflects only transmission considerations and does not address other relevant issues such as fuel supply, water supply, or environmental concerns.

PEC does not make, and expressly disclaims, any representation regarding the suitability of the sites for locating new generation. By posting this list of sites, PEC is not offering to purchase the output of any generation that may be constructed at such sites, nor does PEC warrant or otherwise guarantee the availability of transmission service from these sites.

It should be emphasized that interconnection and transmission service requests change frequently and can affect results at a particular site. Accordingly, reference should be made to the CP&L OASIS Generator Interconnection Queue for information relating to existing requests including generator interconnection requests at or near to a particular site. For reference, the PEC Generator Interconnection Queue can be accessed via the following link:

http://www.oatioasis.com/CPL/CPLdocs/CPL_Gen_Interconn_Queue_Since2006.pdf

General for siting:

- 230 kV stations or lines are more favorable than 115 kV or 500 kV.
- Areas in proximity of nuclear generation may be more sensitive to stability issues.
- 230 kV lines are typically rated between 400 MVA and 1000 MVA.
- 115 kV lines are typically rated between 70 MVA and 200 MVA.
- Significant existing generation in the Person County area makes this area sensitive to short circuit issues.
- Connecting generation to a substation is more favorable than to a line.
- Assume additional site generation of approximately 300MVA or less

Favorable Generation Sites Listed Alphabetically by County

Related Studies	County, State	Potential Area of Interconnection	Interconnecti on Voltage
Q130, 131 Q118	Buncombe, NC	Craggy Sub	230 kV 115 kV
	Sampson, NC	Clinton Sub	230 kV
Q22,24,26	Craven, NC	New Bern Sub	230 kV 115 kV
	Cumberland, NC	Cumberland Sub	230 kV
	Franklin, NC	Franklinton Sub	115 kV
	Lenoir, NC	Wommack Sub	230 kV
	Onslow, NC	Jacksonville Sub	230 kV 115 kV
	Carteret	Morehead Wildwood Sub	230 kV 115 kV
	Pitt, NC	Greenville Sub	230 kV
	Randolph, NC	Asheboro Sub	230 kV 115 kV
Q80, 81, 82-I Q80, 81, 82-II Q80, 81, 82-III	Wake, NC	Harris Plant Sub	230 kV
	Wake, NC	Wake Sub	230 kV
Q112	Wayne, NC	Lee Sub	230 kV
	Yancey, NC	Cane River Sub	230 kV 115 kV

The studies identified in the table above are available on the CP&L OASIS.