FRCC
Florida Reliability Coordinating Council, Inc.

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FRCC Bulk Electric System

Purpose:

The Bulk Electric System, as defined by the NERC Reliability Standards Glossary, provides the ability to define and specify detail on a regional basis. The NERC definition is:

> "As defined by the Regional Reliability Organization, the electrical generation resources, transmission lines, interconnections with neighboring systems, and associated equipment, generally operated at voltages of 100 kV or higher. Radial transmission facilities serving only load with one transmission source are generally not included in this definition."

The FRCC Regional Entity is further defining the definition to clarify and reduce ambiguity.

The Bulk Electric System within the FRCC footprint is defined as all:

1. Electrical generation resources greater than 20 MVA (gross nameplate rating) or a generation plant with aggregate capacity greater than 75 MVA ((gross aggregate nameplate rating) including generator step-up (GSU) transformers and associated equipment from the generator terminals to the high side of the GSU)) connected at voltages of 100 kV or higher (high side of GSU).

2. Transmission Elements and associated equipment, operated at voltages of 100 kV or higher.

3. Transformers (other than generator step-up (GSU) transformers) with both primary and secondary windings of 100 kV or higher.

The FRCC Bulk Electric System excludes:

- Any radial Transmission Element or System connected from one transmission source to load serving Elements and/or generation resources not included in item 1 above, where a loss of the radial Elements or System will not result in an Adverse Reliability Impact.

- Generating plant control and operation functions which include relays and systems that control and protect the unit for boiler, turbine, environmental, and/or other plant restrictions.

- All other Elements operated at voltages below 100 kV.

Final Version 9/1/2010 Approved by the FRCC Board of Directors _____
Effective Dates:
FRCC BES Definition, Appendix A: Clarification to the FRCC Bulk Electric System (BES) Definition for Radial Transmission Elements or Systems Exclusion, and Appendix C: Adverse Reliability Impact Study Requirements: 1st day of the 3rd calendar quarter following regulatory approval.
Appendix B: FRCC regional application of the term "transmission Protection Systems": 1st day of the 7th calendar quarter following regulatory approval.

Supporting Documentation

a) See Appendix A for further clarification of radial Transmission Elements or Systems.

b) See Appendix B for further clarification of transmission Protection Systems.

c) See Appendix C for further clarification of Adverse Reliability Impact Study requirements.