Project 2008-01 Voltage and Reactive Control

Standards Involved:

VAR-001-1 — Voltage and Reactive Control
VAR-002-1 — Generator Operation for Maintaining Network Voltage Schedules

Research Needed:

Determine how to determine the amount of voltage and reactive reserves are needed. The research should identify how to determine the split of control between the reactive power provided by the generator and reactive power provided through reactors and power system stabilizers located geographically distant from the generator.

Research should identify how to subdivide an interconnection's need for reactive reserves amongst its Transmission Operators.

Brief Description:

This is a new project and supports a blackout recommendation. Industry debate is needed on whether there should be a North American standard that requires a specific amount of reserves, or whether requirements for specific reserves should continue to be addressed at the regional level. The requirements in the existing standards need to be upgraded to be more specific in defining voltage and reactive power schedules. Consideration should be given to adding a requirement for the Reliability Coordinator to monitor and take action if reactive power falls outside identified limits.

The project will incorporate the interpretation of VAR-002 Requirement 1 and Requirement 2.

The development may include other improvements to the standards deemed appropriate by the drafting team, with the consensus of stakeholders, consistent with establishing high quality, enforceable and technically sufficient bulk power system reliability standards.

Coordination with NAESB:

The NAESB Wholesale Electric Quadrant (WEQ) Standards Review Subcommittee (SRS) conducted an analysis of the NERC Reliability Standards Development Plan in order to identify those projects contained in the plan that may be appropriate for the industry, through NAESB, to develop parallel and complementary business practices. Below are NAESB's observations for this project.

Related NAESB WEQ Projects (See NAESB WEQ 2008 Annual plan):
Annual Plan Item 1

Justification for NAESB consideration:
Industry recommendations

SRS Recommendation:
This project may need NAESB attention in the future. The WEQ SRS will place this on its watch list. The SRS wishes to know if this is still an active NERC project, as it is not included on their Standards under Development list.

Standards Development Status:

Project has not started.

Project Schedule:

Project 2008-01 Project Schedule

Target Completion Date:

Fourth quarter of 2011

Related Links:

Project 2008-01 Roster

Project	Purpose	Latest Status 01/01/09	Next Anticipated Posting (for comment, pre-ballot review, or ballot)
Projects starting in 2008			
2008-01 Voltage and Reactive Control	This is a new project and supports a blackout recommendation. Industry debate is needed on whether there should be a North American standard that requires a specific amount of reserves, or whether requirements for specific reserves should continue to be addressed at the regional level. The requirements in the existing standards need to be upgraded to be more specific in defining voltage and reactive power schedules. Consideration should be given to adding a requirement for the Reliability Coordinator to monitor and take action if reactive power falls outside identified limits.	The Transmission Issues Subcommittee (TIS) sub-group held a conference call on November 21 and revised the scope and training documents being developed in conjunction with the white paper. The next meeting is scheduled for January 19, 2009. Work continues on the white paper.	White Paper will be presented to the Planning Committee (PC) in June 2009. Upon adoption of the White Paper, a SAR will be developed and presented to the Standards Committee (SC).