

Electric Power and Power Electronics Institute

WEEKLY SEMINAR SERIES – SPRING 2016

Friday, May 6th, 2016, Time: 3:00 – 4:00 p.m., Venue: 3002 ETB Building

ANALYTIC CAPABILITIES AT NERC – MODELING AND SYSTEM ANALYSIS INITIATIVES

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Abstract

The North American Electric Reliability Corporation (NERC) is the Electric Reliability Organization for North America whose mission is to assure reliability of the bulk power system. NERC develops Reliability Standards, annually assesses reliability, monitors the bulk power system through system awareness, and educates, trains, and certifies industry personnel. NERC is active in the regulatory environment, but is also ramping up its analytical capabilities for performing a broad range of reliability assessments. Dr. Quint will provide an overview of the technical activities of the NERC System Analysis department. These topics cover a broad range of assessments including frequency response, transient stability, oscillation analysis, modeling improvements, protection systems, and reconstruction of grid disturbance events.

Biography

Dr. Ryan Quint is a Senior Engineer in the System Analysis department at the North American Electric Reliability Corporation (NERC). His focus areas include modeling improvements, stability analysis, event analysis and disturbance forensics, frequency response, power plant model validation, dynamic load modeling, synchrophasor technology, and cascading outages. Ryan is currently the Staff Coordinator for the NERC System Analysis & Modeling Subcommittee (SAMS), Synchronized Measurement Subcommittee (SMS), and Load Modeling Task Force (LMTF).

Ryan also has experience working at Dominion Virginia Power in Electric Transmission Planning; and Bonneville Power Administration in Long Range Transmission Planning, Transmission Planning, Remedial Action Scheme Design, Measurement Systems Laboratory, and Customer Service Engineering.

Dr. Quint is an active member of the IEEE Power & Energy Society, CIGRE, and North American Synchrophasor Initiative (NASPI); and continually seeks to support industry organizations focusing on grid reliability across the interconnections. He received his Ph.D. and MSEE from Virginia Tech, and BSEE from University of Washington. Ryan is a registered Professional Engineer (PE) in the state of Virginia.