# Drafting Team Roster

Below please find a brief biography for each member of the WECC-0148 VAR-501-WECC-4, Power System Stabilizer, Five-year Review Drafting Team.

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| Name | Qualifications |
| Greg Anderson, Southern California Edison | Mr. Anderson is the subject matter expert for generation and excitation systems for the Southern California Edison Company. He has over 33 years of experience in the utility industry, with responsibilities for coordinating WECC testing of generation assets. He has been a WECC participant since 1997 and a member of the Control Work Group since 2003. |
| Joel Anthes,  Pacific Gas and Electric | Mr. Anthes is a Senior Electrical Engineer with Pacific Gas and Electric Company’s Power Generation organization. Mr. Anthes has more than 16 years of experience in the electrical and power generation industries. Over the past nine years, he has led the development of multiple technical programs related to electrical generation and excitation system protection, control system tuning and modeling, and generator electrical ratings. Mr. Anthes is a registered professional engineer in the state of California and plays an active role in the development of industry best practices and regulatory standards for NERC. Recent experience includes:  • Member of the drafting team for NERC Project 2020-02 Transmission-connected Dynamic Reactive Resources.  • Power system stabilizer (PSS) tuning and validation.  • Development of tools for numerical calculation of generator field current. Performs generator heat runs to prove safe increase of electrical rating beyond existing nameplate.  • Development of program for dynamic modeling of generators, voltage regulators, governors, and power system stabilizers. Development of associated programs for NERC regulatory compliance.  • Developed custom tools for determining generator electrical characteristics, impedances, time constants, phase response, and capability curves for synchronous generators. Oversees training of other engineers in the proper implementation of these tools.  • Commissions and tests excitation systems, voltage regulators, and power system stabilizers.  • Performs Root Cause Analyses using industry standard methodologies for operational safety incidents and major equipment failures.   * Developed recommendations for corrective actions to effectively prevent the recurrence of equipment failure and human performance errors. |
| Shane Kronebusch,  L&S Electric, Inc. | Mr. Kronebusch is the Lead Electrical Engineer and subject matter expert for generation and excitation systems for L&S Electric, Inc. He has over 31 years of experience in the utility industry, including:   * Developing the LS-AES excitation system. * Designing, installing, and commissioning exciters and governors across a wide range of units. * Performing of testing and model validation reports for NERC MOD-025, -026, & -027. * Coordinating and preforming WECC testing of generation assets as an employee of BC Hydro Generation Engineering and Maintenance Services before joining L&S Electric, Inc. in 2010. * Participating as a member of the WECC Control Work Group since 2006 and drafting team member of WECC-0099/0107. |
| Matthew McDonald, Arizona Public Service | Mr. McDonald is a Senior Electrical Engineer in the Technical Projects Engineering department with 15 years of experience in the utility industry. He holds a Bachelor of Science from Pennsylvania State University as well as a professional engineering license. His expertise and experience include the following:   * 13 years’ hands-on experience installing, troubleshooting, commissioning, and tuning excitation systems and generator protection relays. * Five years of experience performing generator, excitation, and PSS model validation via simulation and live testing. * Excitation system subject matter expert for Arizona Public Service for the past four years. * NERC/WECC compliance lead for VAR-501-3, PRC-19-2, PRC-002, PRC-27-1 and PRC-25-2. * Other responsibilities and roles have included generator excitation instructor, improvisational field testing, synchro-phasor and digital fault recorder commissioning. |
| Kimberly Turco, Constellation Energy | Ms. Turco has worked for Constellation Energy Generation (CEG) for 10 years, with the last two years in NERC compliance and supporting ISO compliance. CEG is actively involved in NERC’s Standards Under Development process and would like to take this opportunity for direct involvement in the review of VAR-501-WECC. Kim comes with a wide background in energy and compliance that would be an asset in the standards review process.  Kim’s background:   * Worked as a subject matter expert in AESO in day-ahead bidding and electronic transaction systems (ETS). * Drafted CEG’s Grande Prairie Generation generating station’s Transmission Must Run Contract. * A barred attorney. * NERC compliance SME and compliance contact for CEG’s WECC and Alberta generating facilities. * Lead on historical submittal of Automatic Voltage Regulator and Power System Stabilizer Outage reporting.   Kim has the full support of CEG’s NERC Compliance Group and will be able to dedicate the time and resources demanded of a member of the Standards Drafting Team. |