Validation and Accreditation of Transient Stability Results

Thomas J. Overbye
Fox Family Professor of Electrical and Computer Engineering
University of Illinois at Urbana-Champaign

PSERC Public Webinar

Wednesday, October 26, 2011
2:00-3:00 p.m. Eastern Time (11:00-12:00 p.m. Pacific)

Description
Simulation of the transient stability problem, which is the assessment of the short term (several to 30 seconds) angular and voltage stability of the power system following a disturbance, is of vital importance. For some portions of the North American power grids, such as the Western Electric Coordinating Council (WECC), transient stability has always been an important consideration, while for other portions it is of growing concern due partially to the widespread integration of wind generation. It is widely known in the industry that different transient stability packages can give substantially different results for the same (or at least similar) system models. This presentation presents results from a PSERC project that investigated the source of these differences. The presentation will also provide a discussion of transient stability validation methodologies.

Biography
Thomas J. Overbye is the Fox Family Professor of Electrical and Computer Engineering at the University of Illinois at Urbana-Champaign where he has taught since 1991. He received his BS, MS, and Ph.D. degrees in Electrical Engineering from the University of Wisconsin-Madison. His current research interests include electric power system analysis, visualization, dynamics, and cyber security. Dr. Overbye is also the original developer of PowerWorld Simulator, an innovative computer program for power system analysis, education and visualization, a co-founder of PowerWorld Corporation, and is an author of the Power System Analysis and Design book.

Speaker Contact Information:
Thomas J. Overbye
overbye@illinois.edu
Participation by Webinar: To connect to the webinar, click here and then on 10/26/2011. The webinar will include the audio and slides. You will be able to send in your questions via the website. The archived webinar will be available immediately afterwards.

Registration for Webinar Participation: None required. There is no charge for participating!

Webinar Technical Details: To confirm that you will be able to view the webinar, click here and try viewing one of the archived webinars. You should install Silverlight 3 to view the webinar. If you need additional assistance, send an email to pserc@asu.edu. If the video or audio stop during the presentation, try refreshing your browser page.

Assistance: If you have any questions, please call 480-965-1643 or email Theresa.Herr@asu.edu. You can also contact Dennis Ray, PSERC Deputy Director, at 608-265-3808 or djray@engr.wisc.edu.

PSERC’s Webinar Coordinator
Ward Jewell, Wichita State University
Email: ward.jewell@wichita.edu
Ward welcomes feedback on the webinars and suggestions for future ones.