

Power System Transient Stability Analysis with PowerWorld Simulator

June 21-22, 2010

Hosted by ColumbiaGrid

Presented by PowerWorld Corporation and ColumbiaGrid

June 21 (tentative)

- 1:00 - 1:30 Model Relationships: Machine, Exciter, Governor, Stabilizer, Turbine Load Controller, Other
- 1:30 - 2:45 Input Data: Generator Models, Load Models, Model Explorer, interchange with DYD or DYR files, GENCC models
- 2:45 - 3:00 Break
- 3:00 - 4:30 Transient Stability Basics: Model Initialization, Initial Limit Violations, State Equations
- 4:30 - 5:00 Model Validation: Time Constants, Machine Parameters, Limits

June 22 (tentative)

- 8:00 - 8:30 Contingency Definition
- 8:30 - 9:00 Result Storage: Results Available (Fields, Inputs, States, and Others); RAM and Disk; Result Options
- 9:00 - 9:30 Plot Definition
- 9:30 - 10:15 Plot and Results Display: Plot Interaction, Max/Min Values, Time Values, Events
- 10:15 - 10:30 Break
- 10:30 - 11:00 Transient Limit Monitors: Generic Limit Monitors, User-Defined Limit Monitors, Monitor Violations
- 11:00 - 11:30 SIMB Eigenvalues
- 11:30 - 12:30 Lunch
- 12:30 - 1:30 Wind Turbine Modeling
- 1:30 - 2:00 Large-Scale Simulation Examples
- 2:00 - 2:15 Break
- 2:15 - 4:00 Large-Scale Simulation Examples (continued)