

Detailed Agenda UGM – USA

October 6, 2016

Time	Activity
8:30	Registration and Welcome by Nayak Corporation
8:45 to 9:00	Presentation by MHRC – Company Overview and New Developments
9:00 to 10:30	New Developments in PSCAD – Parallel Computing <ul style="list-style-type: none"> - Parallel Multi-Run (PMR)/Simulation Sets - New Developments in High Performance Parallel/EMTDC
10:30 to 10:45	Coffee break
10:45 to 12:30	New Developments in PSCAD–Application <ul style="list-style-type: none"> - Automation with Python - Blackboxing (control systems and electric circuits) - Data conversion from other industry standard software tools - Demo initializer utility
12:30 to 1:15	Lunch
1:15 to 2:30	Illustrative simulation example utilizing new features <ul style="list-style-type: none"> - Wind farm TOV studies - Transient studies - SSR/SSCI studies
2:30 to 2:45	Coffee Break
2:45 to 3:30	Applications of PSCAD™/EMTDC™ <ul style="list-style-type: none"> - VSC Transmission
3:30 to 4:00	Question and Answer <ul style="list-style-type: none"> - Open discussion User feedback
5:15 Bus to Space Center Houston	Bus will be picking us up in front of Courtyard by Marriott I-10 West/ 12401 Katy Freeway Houston.

October 7, 2016

Time	Activity
9:00 to 10:30	New models in v4.6: <ul style="list-style-type: none"> - Simplified Cable Model - Dot product - Battery - Dynamic Datatap - Freq Dependent Network Equivalent

	<ul style="list-style-type: none"> - Freq Dependent Transfer Function - Maximum/Minimum element/location of an array - MOD - MODULO - Multimass with configurable generator and exciter positions - Programmable Pause - Hysteresis control PWM - Rank Number - Statistical Breaker - Programmable Stop - IEEE/CIGRE Surge - Single phase 4 winding transformer <p>New models in Beta</p> <ul style="list-style-type: none"> - Electrical tap - User configurable N winding (5-12) transformer <p>Models under development</p> <ul style="list-style-type: none"> - Single phase induction machine - Multi-Module Converters (MMC) <p>Experimental development</p> <ul style="list-style-type: none"> - Multi time step ENI - Reducing time step after snapshot - MANA
10:15 to 11:00	Coffee Break
11:00 to 11:30	Blackstart Transients Analysis By: Esther Hwang, Southern California Edison
11:30 to 12:00	Automating PSCAD studies which consider variable TLine lengths By: James Schwartz, AltaLink Management Ltd.
12:00 to 1:00	Lunch
1:00 to 1:30	Very Fast Transient (VFT) and Lightning Simulations for Gas Insulated Station (GIS) By: Alkesh Patel, Siemens PTI
1:30 to 2:00	Case Study: Investigation of Nuisance Tripping in a 200 MW Wind Farm – By: Amin Najafabadi, Pterra
2:00 to 2:30	<u>User Presentation</u> By: Hardik Parikh, Electric Power Engineers, Inc.
2:30 to 2:45	Coffee Break
2:45 to 3:15	Testing the assumptions for a voltage imbalance study By: Jesse Rorabaugh, Southern California Edison
3:15 to 3:45	Ground fault and voltage flicker analysis done with PSCAD inverter model By: Ran Xuanchang, Leidos Engineering
3:45 to 4:00	Open discussion and closing remarks

Schedule subject to change