



PAC World Americas Conference 2018

Initial List of Oral Presentations

(listed in no particular order)

Paper #	Abstract Title*
OP01	Challenges in the Upgrade of Custom-Built Protection, Automation and Control Systems
OP02	Big Data Analytics – New tools for Power System Operators
OP03	IEC 61850 Interoperability – Use of Tools Key to Success
OP04	Optimal Placement and Sizing of Distributed Generation in a Radial Distribution System Using Differential Evolution Algorithm
OP05	Relay Event File Analysis
OP06	Automated Evaluation of Protection Modeling for Wide-Area Protection Studies and PRC-027 Compliance – National Grid Saudi Arabia case
OP07	Implementing Microgrid Protection and Control Using IEC 61850 Protocol at Duke Energy’s Mount Holly Microgrid
OP08	An Update on ‘Developing a Unified Protection System: Philosophy, Short Circuit Software, and Wide Area Protection Coordination Study’
OP09	Study of P class phasor measurements during fault conditions and impact on analysis applications
OP10	Vendor Device Evaluation Testing Not Just for Hardware Evaluation.
OP11	Mixing Renewable Energy Technologies for mitigating grid perturbation or grid loss operation in Wind Power
OP12	VHPready – The Standard Protocol in Smart Grids
OP13	Holistic Security
OP14	Nested Microgrids for Increased Grid Resiliency
OP15	Lessons Learned While Commissioning a 100MVA, 400kV/220kV Transformer with Restricted Earth Fault Protection: A Case Study and Analysis.
OP16	Deployment and evaluation of PTPv2 in a PRP network
OP17	Application and staged testing of the travelling wave fault locator at extra-long HVDC line
OP18	Process bus busbar protection – a novel solution to eliminate conventional busbar protection constraints and a stepping stone towards digital substations
OP19	On-line and adaptive protection security assessment in networks with highly integrated DERs
OP20	Results from the 2017 IEC 61850 IOP
OP21	Estimation of Positive Sequence Line Parameters of Medium-Length Transmission Line Using Synchrophasors
OP22	Online Adaptive Efficient Optimum Coordination of Overcurrent Relays Using Differential Evolution
OP23	What’s the Frequency, Heinrich?: From the Æther into the Wire
OP24	Applying Graph Theory to Power System Topology
OP25	Analysis Technique for Ground Faults in Resistively Grounded Systems: Visiting an Old Friend, the BDD Relay
OP26	A utility’s perspective on transitioning to commissioning and testing IEC 61850 protection and control systems
OP27	Implementation of test mode in IEC 61850 Edition 1 and Edition 2
OP28	New intelligent Direct Transfer Trip over cellular communication.
OP29	Synchrophasor Implementation to Establish Dynamic Line Rating Paired with Adaptive Distance Relaying Protection
OP30	Qualitative Redundancy
OP31	Real-Time Simulation of a Microgrid Control System using MODBUS Communication
OP32	New Methods for testing SCADA, Automation and Control
OP33	New Possibilities for Testing Superimposed Quantities and Traveling-Wave based Protection
OP34	Emerging Cloud Based Grid Apps

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Paper #	Abstract Title*
OP35	Optimizing and Integrating Transformer / Feeder Protection & Control Including Operations
OP36	Centralized Substation Protection & Control Systems with 100% Redundancy
OP37	Fuses or Relays – An updated Perspective
OP38	Advanced distribution automation application with mis-coordination correction algorithm based on neural network
OP39	Automated Fault Location Analysis – Analytics Update
OP40	Using Secondary Var Controllers to Increase PV Hosting Capacity in Distribution Feeders
OP41	Testing of a Flexible Directional Protection Element Applied to Distance Protection Schemes
OP42	News From the Editor – Updates and Enhancements to Process Bus IEC 61850-9-2 and Related Standards
OP43	Sharing Direct Fiber Channels Between Protection and Enterprise Applications Using Wavelength Division Multiplexing
OP44	Site acceptance testing of a Duke Energy distribution automation project utilizing a simulation based test approach
OP45	Transmission Line Impedance – Why It Matters?
OP46	Improving Security and Reliability at a Nuclear Station
OP48	A holistic testing approach in digital substations.
OP49	Unrevealing the power of Substation Configuration Description
OP50	Hogwash - Debunking the myth that NERC CIP is a case against IEC 61850
OP51	Improved Protection and Control Testing utilizing IEC 61850
OP52	Inaccurate Line Drop Compensation Calculation with High Penetration of DERs Results in Distribution Voltage Control Problems

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