



## PAC World Americas Conference 2019

### Initial List of Oral Presentations

(listed in no particular order)

Paper #	Abstract Title*
PW01	Applying Medium Voltage Rotating Machine Asset Performance Management (APM) using Protection IEDs
PW02	Detecting cyber threats in substations using functional security monitoring
PW03	Extending ADMS and FLISR Applications through CIM and IEC 61850 Harmonization
PW04	UCAlug Update
PW05	CROSS COUNTRY FAULT PHENOMENON IN 500 KV TRANSMISSION SYSTEM (STUDY CASE IN PT PLN TRANSMISSION EAST JAVA AND BALI)
PW06	Mitigating Carrier Holes in Power Line Carrier
PW07	Protection of Digital Relays and Automation Devices against High Altitude Electromagnetic Pulse
PW08	Pushing The Engineering to its Limits
PW09	Real-time Synchrophasor Applications to Support Power System Operations
PW10	Attitudes and Perceptions That Influence the Adoption of IEC 61850 and Digital Secondary System Technology in North America
PW11	Low-Cost Fast Bus Tripping Scheme Using High-Speed Wireless Protection Sensors
PW12	Do we need to apply Cyber Security for Distribution Networks? Investigating Challenges and Solutions
PW13	Testing Bus Bar Protection Systems in a Fully Digital Substation
PW14	Use of IEC 61850 Test Capabilities to Implement Hot Standby Systems
PW15	Secured Substation Protection & Automation IED Firmware Management
PW16	Impact of Instrument Transformer Input Methods on Protection Functions – A Detailed Performance Analysis
PW17	Digital Substation: The Future is Now - Addressing Your Cybersecurity Fears
PW18	Virtual testing with a Digital Twin of protection devices in the Cloud
PW19	Centralized protection and control system with transmission class protection relay
PW20	Poit Fault Analysis
PW21	Instrument Transformer Frequency Response Considerations in MV Applications
PW22	Multipoint-to-Multipoint Protective Relaying Signaling Using Digital Communications and Built-In Logic
PW23	Comparing IEC 61850 and the IEEE 2030.5 Standards: An Update
PW24	Cybersecurity study of power system utilizing advanced CPS simulation tools
PW25	FIRST DIGITAL SUBSTATION APPLICATION IN LATIN AMERICA ACCORDING IEC 61850 STANDARD: SPP ATLAS JUAZEIRO 230kV
PW26	Solving the nightmare of unmanaged user accounts in digitalized industrial environments with Central Account Management according to IEC 62351-8.
PW27	Testing IEC-61850 Sampled Values-Based Transformer Differential Protection Scheme
PW28	Decentralized distribution automation system – scalability and deployment challenges
PW29	Teleprotection solutions with guaranteed performance using packet switched wide area communication networks
PW30	IEC 61850 GOOSE based inter substation protection
PW31	Cross Country Faults phenomena, case study in the Java- Bali system
PW32	From classic RTU to Digital transformer station
PW33	Case Study – Process Bus Based Protection Operations
PW34	Preparing for the IEC 61850 Amendment
PW35	SDN and NFV, the key technologies to speed up the adoption of IEC 61850 on the electrical power Industry.
PW36	Implementation of IEC 61850 Communication in Wide-Area Remedial Action Schemes

\* Paper name may change by final submission – And final list of papers may be adjusted for changes in author schedules.

Paper #	Abstract Title*
PW37	Digital Substation with IEC61850 Process Bus Technology – Altalink Case Study
PW38	Conformance Errors in COMTRADE Records
PW39	Addressing the Challenges to Develop a Fully Automated Fault Location System at PG&E
PW40	Using Real Time Digital Simulations to Avoid Relay Misoperations on a 500 kV Transmission Line Relaying Scheme
PW41	DNP3 Certification Testing Process - Improving interoperability with DNP3 conformance testing
PW42	Proven Technology to Secure Industrial Control Systems
PW43	Automated Fault Location Analysis – Analytics Update II
PW44	Lessons Learned - Configuring IEC 61850 based HMIs
PW45	IEC 61850 Digital Substation Design Tutorial for Novices
PW46	Lessons learned from implementation of IEC 61850 Protection and control at Duke Energy's microgrid at Mount Holly
PW47	PROPAGATION DELAY ASYMMETRY DISTURBANCE IN LINE CURRENT DIFFERENTIAL RELAYS IN A 500 KV TRANSMISSION LINE PROTECTION SYSTEM - (STUDY CASE IN PT PLN TRANSMISSION EAST JAVA AND BALI)
PW48	CT Saturation – a Simulation Study of Different Detection Algorithms
PW49	Implementation and Evaluation of IEC 61850-based Distributed Control System for Microgrid Applications
PW50	STUDY OF CHANGES NEUTRAL POINT SYSTEM FROM HIGH RESISTANCE SYSTEM OF NGR TO BE SOLID
PW51	NERC PRC-005 Compliance Made Easy with Digital Substations
PW52	Unselective Restricted Earth Fault Relay Performance due to External Fault and Flashover in Neutral Ground Resistance on 60 MVA 150/20 kV Power Transformer: A case study of PT PLN (Persero)
PW53	Overcurrent protection coordination in automated distribution feeders.
PW54	A Fast Fault Locating and Isolating Scheme for Sub-transmission lines using Goose Messaging
PW55	How the Engineering Design Process Can Simplify the Testing of Automation and Control Systems
PW56	Assessment of a misoperation on a distance protection relay by means of line impedance measurement and system-based testing
PW57	Traveling Wave Relay Application, Commissioning, and Initial Experience
PW58	Design of Remote Generator Synchronizing Panels for Refinery Cogeneration
PW59	Island Detection in Refinery Cogeneration
PW60	Digital Substations: A journey, not a destination
PW61	Need Title
PW62	Benefit of Simultaneously Monitoring Cybersecurity and System Protection
PW63	Analytics at Warp Speed – From Prototypes to Production
PW64	Synchrophasor Measurements for Power Systems under the Standard IEC/IEEE 60255-118-1
PW65	A Brave New World – Substation Networks for Relay Engineers

\* Paper name may change by final submission – And final list of papers may be adjusted for changes in author schedules.