



## PAC World Americas Conference 2020

### Initial List of Oral Presentations

(listed in no particular order)

Paper #	Abstract Title *
PW01	Merging Unit Based Solution for Full Switchyard Digitization
PW02	Effects of Time Synchronization in Digital Substation Protection
PW03	A Centralized Protection and Control System for Distribution Digital Substations
PW04	Study of Battery Energy Storage System in a Weak Distribution Grid with Distributed Energy Generation Penetration
PW05	Practical Application of EM Mitigation for Substation Protection Systems
PW06	Evaluation of the impact of SVC in stabilizing voltage in a power grid: case of the Ivory Coast North power grid
PW07	Multivendor Process Bus Pilot Project with interoperability
PW08	CPC Architectures for Small Distribution Substations
PW09	Testing a Process Bus Based Multi Zone Protective Relay
PW10	Reliable Protective Relay Coordination Considering Grid Dynamics
PW11	Application aware visibility into Automation and Control Networks based on IEC 61850
PW12	Using Synchrophasors for a Wind farm response analysis on system disturbances in Brazilian Interconnected Power System
PW14	Test Strategy for Protection, Automation and Control (PAC) Functions in a Fully Digital Substation Based on IEC 61850 Applications
PW15	IEC Protocols and LWM2M complement each other in Smart Metering
PW16	Application, Configuration, and Testing of GOOSE Cable Protection Scheme
PW17	Power System Disturbances and IEC 61850-7-420 Operational Functions
PW18	Automated Fault Location Analysis – Analytics Update III
PW19	Testing & Commissioning of Digital Substation - IEC 61850-9-2 LE complied IEDs & Merging Units
PW20	Communication Network Fault Analysis – When Things Go Wrong
PW21	DER Feedback Loop Control System Using Distributed Communications
PW22	Flattening the Grid
PW23	Distribution Fault Location on Overhead Lines using Cloud technology
PW24	Wideband Voltage Sensors For The Modern Substation
PW25	Monitoring Power System Poles
PW26	ARPA-E Project – National Infrastructure for Artificial Intelligence on the Grid.
PW27	Improving a Protection, Automation and Control (PAC) system in a digital IEC 61850 substation: The case of San Miguel Digital Substation
PW28	Software Defined Networking Design Considerations
PW29	A Review of the IEC 61850 Engineering Process
PW30	Solving Performance and Cybersecurity Challenges in Substation and Industrial Networks With Software-Defined Networking
PW31	Using Real-Time Testing Tools to Baseline the Performance of OT Networks for High-Speed Communications
PW32	Multi-Terminal Permissive Overreaching Transfer Trip (POTT) Scheme Using IEC 61850 GOOSE Messaging
PW33	Practical Application of EM Mitigation for Substation Protection Systems
PW34	New high-speed method to detect broken overhead conductors.
PW35	A Virtual Synchronous Generator Approach to Resolving Microgrid and Battery Protection Challenges
PW36	Functional Testing Non-Standardized IEC 61850 Features for Practical Applications
PW37	Cost/Benefit Analysis for IEC 61850 implementation

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

<b>Paper #</b>	<b>Abstract Title *</b>
PW38	Developing Primary and Protection Model Maintenance Approach for NERC PRC-027
PW39	Improving Protection Applications for Modern Distribution Switchgear Systems
PW40	Benefits of using IEC 61850 messages for testing conventional protection schemes
PW41	Substation HMI design for Silicon Valley Power
PW42	Benefit of Simultaneously Monitoring Cybersecurity and System Protection
PW43	Cybersecurity Risk Management in the Supply Chain
PW44	need title
PW45	Experiences in design and commissioning of a secure substation network architecture
PW46	Testing Automation and Control- Test Cases and Test Automation
PW47	WASA and the Roadmap to WAMPAC at SDG&E
PW48	Utilizing IEC61850 standard for the circuit based wide area distribution automation system
PW49	Testing of transformer protection with time-domain inrush detection elements
PW50	Using and Securing Routable GOOSE for Wide Area Protection in Centralized Remedial Action Systems.
PW51	Power Sensor Considerations in Protection and Control Applications
PW52	Benefits of using point-on-wave controller for a pumped-storage application

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