## 2016 CIGRE Canada Conference – Vancouver, British Columbia Table of Contents - Papers

- 723 A New Partial Discharge Testing Method for Isolated Phase Bus and a Case Study
- 724 Vulnerability of Sound Barrier Enclosure to Failure of Large Auto Transformer
- 726 A Novel Built-in Insulation Condition Monitoring System Enabled by Dry Type Technologies
- 727 Voltage Fluctuations Caused by Cloud Transients in Distribution Systems with PV Generators
- 729 Impacts of High Frequency Harmonics on Power Systems
- 731 Back to back switching of underground cables and capacitor banks concerns and mitigation measures
- 733 HVDC Grid Power Flow Controller Using Dynamic Droop Control Method
- 735 Condition Assessment and Reliability Evaluation of Utility Wood Poles Using Fuzzy Logic and Monte Carlo Simulations
- 736 An Innovative Application of PMUs for Generation Shedding
- 737 Transmission Line Criticality Ranking Process
- 738 Assessment and Mitigation of Corrosion Risk in Transmission and Distribution Structures
- 739 A Study of Fault Location Method in Double Wye Shunt Capacitor Banks
- 743 Methodology for Developing Transmission Line Components Failure Curves
- 744 A Probabilistic Approach for Economic End-of-Life Analysis of Circuit Breakers
- 745 Comparison of Different Approaches for Estimating Condition of Overhead Transmission Line Conductors
- 746 Replacing Aging 735 kV Insulators with Modern Equivalents A Case Study
- 748 Estimating Extreme Ice on Power Line by Modified Gumbel Distribution
- 751 Power System Operation with Large Scale Wind Energy Integration
- 752 Underground Sensing and Communicating System for MV Distribution Networks

- 753 A Comprehensive Evaluation of "DC" Power Flow Models and their Application to Power System Security Analysis
- 754 Dynamic Models for Electric Power Systems in Renewable Integration Studies
- 755 Evaluation of Stand-alone PV and Battery Inverters Performance for Supplying Common Household Appliances
- 756 Investigation of Grounding Electrode Impedance Variation on the Voltage and Phase Angle of Three Phase Shield Wire
- 757 Distributed generation long-term planning in unbalanced smart distribution systems using hourly optimal operation
- 758 Investigation of Smart Inverters
- 759 Seismic Considerations for Electrical, Protection and Control Equipment in Generating Stations
- 761 High Power Density 22MW Trailer Mounted Load Bank
- 762 Impact of Earthquakes on Indian Power System
- 763 Cyber Security Analysis of Islanded Microgrids Controllers
- 764 Tele Protection ensuring highest performance of the protection system using packet switched wide area networks (D2/B5)
- 765 Methods to Improve the Grid Resiliency under the Influence of GIC
- 766 The Application of Volt/VAr Optimization on Medium Voltage Distribution feeders
- 767 Optimal placement and sizing of distributed generation units by multi-objective genetic algorithm in Chilean electrical networks
- 768 Performance Evaluation of Traction and Utility Network Interface: Fault Location and Protection Coordination
- 769 Analysis of how standards compliant bushings in Cape Spear and Mahikeng align with changing environmental regulations
- 771 Power system transients analysis based on rotational invariance technique
- 773 Application of Unmanned Aircraft Systems (UAS) in Transmission Line Inspection
- 774 Providing Secure Multi-Vendor Device Management in a Vendor-Centric World
- 775 Unmanned Aerial Systems Use for Electric Transmission Line Operations

- 776 Access control: from default local device access levels to centralized managed role-based access control
- 778 Reliable and interoperable digital substation
- 779 Carrier Ethernet Technology in an Electric Utility's Communications Network
- 780 Offshore Wind Power Sharing and Curtailment Control Strategy for Multi-terminal VSC-HVDC Transmission Systems
- 781 Vendor-independent solution implementation for SCADA, data visualization, and NERC CIP Compliance
- 782 Typical Canadian Medium Voltage Benchmark Network Model for Integration of Distributed Energy Resources
- 783 Major SVC upgrade in the Canadian 735 kV transmission system Emerging Technologies for Power System Applications
- 784 Dynamic modeling of STATCOMs and Hybrid STATCOMs for transmission applications
- 785 Multi-Functional Interphase Power Controller for Power Flow Control in the Power Transmission System
- 787 Transient Stability Assessment of BC Hydro Power System Using Decision Trees
- 789 The Way to a TransCanada Electric Transmission System
- 790 Substation Digital Data Acquisition using Merging Units Choice of Architecture
- 791 Design, concept and cost of a IEC61850 Process Bus based Breaker Fail, Synchronism Check and Trip Coil Monitoring Application
- 792 Lessons Learned and Savings Achieved Commissioning, Testing, Maintenance of a process bus pilot project
- 795 BC Hydro Synchrophasor System for Wide Area Monitoring, Protection and Control Functional Requirements and System Architecture Considerations
- 796 A Reduced-Order Model of a Hybrid Modular Multilevel Converter
- 799 Design Considerations of a Hybrid Cascaded Modular Multilevel Converter
- 800 Evaluation of BCIT's Microgrid Control Functionality
- 801 Comparison of two Phasor-Based Impedance Scan Programs for Filter Performance Assessment for the Nelson River HVDC Northern System

- 803 Practical Techniques for Studying the Harmonic Impacts of Wind Farms
- 804 Operational Experiences with Electricity Generation from Wind Turbines in Challenging Cold Climate Conditions
- 805 Geo-magnetically Induced Currents, their True Impact, and Methods to Protect Against
- 807 Transformer reliability and dissolved-gas analysis
- 808 Connecting Asset Health Indices, Asset Probability of Failure, and Risk
- 809 Condition Monitoring Data Driven and Knowledge Based Analyses
- 810 Optimal Sizing of Energy Storage Capacity for a Wind Power Generator to Reduce the Loss of Load Probability
- 812 Development of a Virtual Relay Model (VRM) of a Microprocessor Based Sub Harmonic Protection Relay
- 813 Interoperability of Protection Systems in High Voltage Direct Current (HVDC) Networks
- 814 Analysis of Transient Stability Enhancement of Power Systems Using VSC Systems
- 815 Suppressing Wind Farm Output Power Fluctuation and Improving Power System Stability Using Battery Energy Storage System
- 816 Managing Renewable Generation Efficiently with a Receding Horizon Optimization
- 819 Arc-fault protection gets ultra-fast with UFES integration in Low Voltage Switchgear
- 820 Series Compensation for Distribution Networks