

Preferential Subject 1: Optimized Asset Management Techniques for HV Substation Equipment

no.	Title	Responsible Author	Country	Company / On behalf of
PS1-01	Technology and methods for personnel safety in diagnostic circuit breaker test	Linus Claesson	Sweden	GE
PS1-02	Monitoring and Diagnosis for Aged GIS/GCB based on Failure Mode Analyses	Tadao Minagawa	Japan	Mitsubishi Electric Corp.
PS1-03	Application of software for analysis and check of circuit breaker interrupting capability	Danusia de O. de Lima	Brazil	RGE
PS1-04	Monitoring System for Capacitors Banks	André L. P. de Oliveira	Brazil	SIEMENS
PS1-05	Dead Tank based Compact Switchgear - Optimized HV Substation Equipment	Hartmut Knobloch	Germany	SIEMENS
PS1-06	CFD, IEC Standards and Testing Laboratories: joining the pieces for higher quality HV equipment.	Sergio Feitoza Costa	Brazil	Cognitor
PS1-07	Intermediate results from on-going cigré enquiry on reliability of high voltage equipment	Carl E Sölver	Sweden	ABB / WG A3.06
PS1-08	Gas-Distribution Modeling for the Detection of SF6 Leakage in Metal-Enclosed Switchgear	Lukas Graber	Switzerland	ETH
PS1-09	How to Increase the Reliability of Disconnects Switches in High-Voltage Systems	Gilberto Toniolo	Brazil	S & C
PS1-10	Specification of On-line Monitoring Systems for Power Transformers Based on a De-centralized Architecture	Marcos E. G. Alves	Brazil	Treetech
PS1-11	Field Experience with On-Line Monitoring of Two 150MVA 230kV Transformers with On-Load Tap Changers	Marcos E. G. Alves	Brazil	Treetech
PS1-12	A New Method for ZnO Arrester Monitoring and Diagnosis	Estácio T. Wanderley Neto	Brazil	UFCG
PS1-13	Influence of the amplitude and harmonic distortion of the system voltage in the leakage current of ZnO varistors	James Silveira	Brazil	UFSC

Preferential Subject 2: Impact of Challenging System Conditions on HV Substation Equipment

no.	Title	Responsible Author	Country	Company / On behalf of
PS2-01	Changing Network Conditions and System Requirements Studies performed by CIGRE WG A3.13	A.L.J. Janssen	Netherlands	Nuon A. M. / WG A3.13
PS2-02	Current status of controlled switching of HVAC circuit breaker	Hiroki Ito	Japan	Mitsubishi Electric Corp.
PS2-03	Induced voltages and currents in parallel circuits of transmission lines and their impacts in project criteria, instructions for construction, maintenance procedures and equipment dimensioning.FURNAS experience.	Jorge Amon Filho	Brazil	FURNAS
PS2-04	Inductive Load Switching: A new IEC standard IEC 62271-110 and experience from testing and field	R.P.P. Smeets	Netherlands	KEMA
PS2-05	High-Power testing needs a proper choice of test-circuits	R.P.P. Smeets	Netherlands	KEMA
PS2-06	Harmonization of IEC and IEEE standards for High-voltage circuit-breakers, and guidance for non-standardized duties	Denis Dufournet	France	AREVA T&D
PS2-07	Fault current limits - Impact on existing and new protection schemes	Karl-Heinz Hartung	Germany	ABB / WG A3.16
PS2-08	installation and testing of three-phase superconducting fault current limiter prototypes in a distributed generation test facility	Luciano Martini	Italy	CESI
PS2-09	Substitute pre insertion resistors by using circuit-breakers fitted with highly developed controlled switching relays – technical and economic benefits	Thomas Wehrstedt	Germany	SIEMENS
PS2-10	OVERRATING mitigation measures for HV circuit breakers	Antonio Carlos Carvalho	Brazil	ONS
PS2-11	Analysis and proposal for standardization of transient recovery voltages on series compensated lines	Anders Alfredsson	Sweden	ABB
PS2-12	Application of controlled switching for high voltage fault current interruption	Richard THOMAS	Sweden	ABB
PS2-13	Deregulation of the Norwegian Power Market - Impact of challenging system conditions on HV Substation equipment	kenneth A. Opskar	Norway	Statnet SF
PS2-14	Strategy for controlled energizing of three-phase transformers	Herivelto S. Bronzeado	Brazil	CHESF
PS2-15	Controlled Energizing of a 100MVA, 230/138kV, three-phase Transformer	Herivelto S. Bronzeado	Brazil	CHESF

Preferential Subject 3: Developments in HV Substation Equipment (Excluding Switching Devices)

no.	Title	Responsible Author	Country	Company / On behalf of
PS3-01	Non Conventional Instrument Transformers™ use for EHV applications and field test results with Interoperability IEC 61850-9.2	Denis CHATREFOU	France	AREVA T&D
PS3-02	A Coupling Capacitor Voltage Transformer Model from Laboratory Measurements	Damasio Fernandes Jr.	Brazil	UFCG
PS3-03	CO2 and its mixtures as an alternative to SF6 in MV circuit breakers	Andrea Colombo	Italy	CESI
PS3-04	Behavior of Metal Oxide Surge Arresters for Fast Surges	George R. S. de Lira	Brazil	UFCG
PS3-05	Electromagnetic Transient Studies for the specification of capacitor banks	Graciela Calzolari	Uruguay	U. T. E.
PS3-06	A critical review of the actual standard IEC 60099-4: Metal-oxide surge arresters without gaps for a.c.	Bernhard Richter	Switzerland	ABB / WG A3.17
PS3-07	Surge arrester design and testing experiences according to the new IEC 60099-4	Reinhard Göhler	Germany	SIEMENS
PS3-08	Energy Handling Capability of High-Voltage Metal-Oxide Surge Arresters- A Critical Review of International Arrester Standards	Volker Hinrichsen	Germany	TUD / WG A3.17
PS3-09	Electrical stresses on circuit-breaker grading capacitors during shunt reactor switching	M. RUNDE	Norway	WG A3.18
PS3-10	Application of optical AC and DC current sensors in EHV compensation systems	Farnoosh Rahmatian	Canada	NxtPhase T&D Corp.
PS3-11	Experience of Non-Conventional Instrument Transformer for 170kV GIS in real commercial operation	Kim Jung Bae	South Korea	HYOSUNG Co
PS3-12	Developments of 245kV 40kA/50kA SF6 Gas Insulated Switchgears using non-conventional tech	Kim Jung Bae	South Korea	HYOSUNG Co