

CIGRE SC A1 COLLOQUIUM
26 - 27 September 2019
Taj Vivanta by Taj, New Delhi (Hall - Tango 1 & 2)

TECHNICAL PROGRAMME

26th Sept. 2019 (Thursday)	
0830 - Onwards.	REGISTRATION
0930 - 1030 hrs.	Inaugural Session
1030 - 1100 hrs.	Tea/ Coffee break
1100 - 1130 hrs.	Presentation of Lead Paper on the subject by India
1130 - 1300 hrs.	Technical Session 1 Session Chair International: M. Roytgarts / Indian Member
	<ul style="list-style-type: none"> • France - The most powerful nuclear generators - Pascal Chay, • Japan - Toshiba Robotic Inspection Technology for Turbo-Generator - H. Katayama • Serbia - Determination of temperature rise of active parts of the revitalized Generator from heat run test. - Ilija Klasnic • India - Large Capacity Turbo-Generators in Nuclear Power Plants Technologies and Operational Experience" - George Sebastian, V.H. Manohar, NPCL <p style="text-align: center;">Q & A Session at the end of technical session</p>
1300 - 1400 hrs.	Lunch Break
1400 - 1530 hrs.	Technical Session 2 Session Chair International: Johnny Rocha / Indian Member
	<ul style="list-style-type: none"> • Russia - Electrodynamics loads on the stator winding during emergency operation of turbo-generators – M. Roytgarts • India - Challenges in use of retiring generating units as synchronous generators-N. Subbarayan, NLC • Canada - Experience with dielectric dissipation factor testing of complete stator windings - A. Shaikh • Canada - Results of destructive analysis of service-aged hydro-generator stator winding insulation - G.C. Stone / Howard Sedding <p style="text-align: center;">Q & A Session at the end of technical session</p>
1530 -1600 hrs.	Tea/ Coffee break
1600 -1800 hrs.	Technical Session 3 Session Chair International: Dr. Erli Figueredo/ Indian Member
	<ul style="list-style-type: none"> • India - Challenges in replacement of out dated electric motors with new technologically advanced, energy efficient and optimised design motors. A case study - Ravi Prakash Gera, BHEL • India - Futuristic large size permanent magnet rotating electrical machines, their topology, design philosophy, magnet materials and control scheme - Bharat Arora, BHEL • India - Transient with stand capability of Stator coils of rotating machines: A Laboratory Perspective - Tirtha S Vishwakarma, Nittin S. Chitte, Anil S. Khopkar, ERDA • India - Surge Testing Requirements for Form Wound Stator Coils/ Bars of Rotating Electrical Machines And Innovative Measures Taken To Improve Reliability Of Insulation System - Nidhi Gupta, Gautam Kumar, BHEL • India - Development of premium efficiency IE3 class induction motors using same stampings of high efficiency IE2 class induction motors - Satish Chetwani, ERDA <p style="text-align: center;">Q & A Session at the end of technical session</p>
Time allowed to each presentation in the session will be max. 20 minutes. After end of every session a question and answer session is also planned	
1900 hrs.	Cultural Evening & Gala Dinner – for International Participants, their companion, National Participants and other invitees.

27th Sept. 2019 (Friday) : SC A1 Colloquium Continued	
0930 - 1100 hrs.	<p style="text-align: center;">Technical Session 4</p> <p style="text-align: center;">Session Chair International: Remi Tremblay/ Indian Member</p> <ul style="list-style-type: none"> • India - Vibrations Issues in Vertically Installed Hydro Generators – Practical Approach (Need to Look beyond Machine) - Ramesh Sharma, consultants & Ex. GM, BHEL • Serbia - Revitalization of Hydro Units in HPP - DRAGAN BELONIC • Brazil - Fundamentals of "Tingley's Box" – An Expeditious Method to Construct the Winding Matrix of Standard and Unconventional Stator Winding Arrangements - Johnny Rocha E • Germany - Thermal Optimization of a Radially Air-Cooled Rotor for a Pumped Storage Hydro Power Motor Generator, applying advanced 3D Conjugate Heat Transfer Simulations - Thomas Hildinger <p style="text-align: center;">Q & A Session at the end of technical session</p>
1100 -1130 hrs.	Tea/ Coffee break
1130 - 1300 hrs.	<p style="text-align: center;">Technical Session 5</p> <p style="text-align: center;">Session Chair International: Howard Sedding / V. Venkatesh</p> <ul style="list-style-type: none"> • Switzerland - White paper – Is Thermal Cycling the right test procedure to qualify bars? - Alexander SCHWERY • Brazil - Contribution of Industry 4.0 to condition-based maintenance of electric generators: the experience of Itaipu Hydroelectric Power Plant - André Tomaz De Carvalho • Brazil - Evaluation of the Behavior of Partial Discharges in Generator Heating Tests - Paulo Roberto • Modernization of 760 MWA Turbogenerator of Brazilian Nuclear Power Plant - Marcio Rezende Siniscalchi <p style="text-align: center;">Q & A Session at the end of technical session</p>
1300 - 1400 hrs.	Lunch Break
1400 -1530 hrs.	<p style="text-align: center;">Technical Session 6</p> <p style="text-align: center;">Session Chair International: Pascal Chay/ Indian Member</p> <ul style="list-style-type: none"> • Brazil - Is There a Relationship Between End Winding Corona and Partial Discharge Measurements in pico Coulombs - Helio Amorim • Evaluation of the impact of the bypassed coils on the derating of a large hydro Generator - Arezki Merkhof and Charles Millet, IREQ, Québec, Canada. • India - Efficiency improvement of large rating induction motor by special design methodologies and advanced techniques -Nisheeth Khare, BHEL • China - Development and Promotion Of Three Kinds Of High-Performance Electrical Machines And Upgrading Of Energy Conservation And Emission Reduction For Electrical Machines Throughout The World - Pu Chaowen/ Alternate Presenter • USA - Instantaneous Torque Signature as a Predictive Maintenance Tool for Variable Frequency Drives and Line Operated Motors – Meggar <p style="text-align: center;">Q & A Session at the end of technical session</p>
Time allowed to each presentation in the session will be max. 20 minutes. After end of every session a question and answer session is also planned	
High Tea 1530 hrs.	