

## Final full papers accepted

Secretariat of CIGRE Colloquium on Rotating Electrical Machines

June 15<sup>th</sup>, 2011

Full Paper Number	Abstract Number	Author	Title	Country	Company	Remark
FP01	1	Dan Zlatanovici	Guide for on-line monitoring of turbo-generators	Romania	Energy Research and Modernization Institute	Oral, Invited
FP02	2	Tang Renyuan, An Zhongliang Tong Wenming	Overview of Permanent Magnet Wind Generators in China	China	Shenyang University of Technology	Oral, Invited
FP03	3	Sun Yutian, Qingfei Gao	The Design and Operation of 700MW Class Totally Air-Cooled Hydroelectric Generators	China	Harbin Research Institute of Large Electrical Machinery	Oral
FP04	65	Luis Díez-Maroto, F.FERNÁNDEZ-BER NAL, Luis Rouco, L. SIGRIST, K. CHAN	Impact of Auxiliaries Response on the Voltage Ride Through Capability of Synchronous Generator Power Plants	Spain	Universidad Pontificia Comillas	Oral
FP05	6	G.C. STONE , J. KAPLER, J. STEIN	Experience with the Turbine Generator Life Cycle Management Process	1-Canada 2-USA	1-Qualitrol-Iris Power 2-EPRI	Oral
FP06	7	Yu.F. Antonov1, Ya.B. Danilevich1, Li Weili2	2G HTS WIND TURBINE GENERATORS	Russia	1-Institute of Silicate Chemistry of Russian Academy of Sciences 2- Harbin University of Science and Technology	Oral
FP07	8	Yasunori Satake, Kenichi Hattori, KazuhikoTakahashi	Temperature of turbo-generator stator strands	Japan	Hitachi, Ltd.	Oral
FP08	9	William Moore	Generator Stator Bar Deterioration due to Vibration Sparking and Partial Discharge	USA	National Electric Coil	Oral
FP09	10	Hudon, C., Chaaban, M. , Bélanger, S., Torriano, F. , Merkhouf, A	Detailed On-Site Measurements to Validate Generator Numerical Modeling	Canada	Institut de Recherche d'Hydro-Québec (IREQ)	Oral
FP10	11	Yu.F. Antonov	BRUSHLESS EXCITATION SYSTEM 2G HTS WIND TURBINE GENERATOR BASED ON TOPOLOGICAL GENERATOR (FLUX PUMP)	Russia	Institute of Silicate Chemistry of Russian Academy of Sciences	Oral
FP11	12	WangTingshan Hu Jianbo Wei Yanfei	Technical Characteristics of 1100MW Nuclear Power Generator Designed by Shanghai Generator Works	China	Shanghai Electric Power Generation Equipment CO., Ltd	Oral
FP12	14	He Jian-hua, Chen Chang-lin, Duo Lin,	Improvement and Optimization of Vibration and Noise Performance of Unit 15~18 for Right Bank	China	Dongfang Electric Machinery Company Limited	Oral

		Zhang Tian-peng	Power Station of TGP			
FP13	15	A.Semba, M.Sugiyama, T.Sano, K. Hosokawa, M.Toyota	Refurbishment Model of Turbine Generator in Nuclear Power Plant	Japan	Hitachi, Ltd.	Oral
FP14	17	Fu Qiang, Man Yuguang, Lu Chunlian, He Xin	Environment Simulation Test on Stator Coil for 1000MW Hydro-Generator	China	Harbin Research Institute of Large Electric Machinery	Oral
FP15	18	Lu Chunlian, Man Yuguang	The Development of Insulation Materials in Harbin Electric Machinery Company Limited	China	Harbin Institute of Large Electric Machinery	Oral
FP16	19	Li Guifen, Sun Yutian, Fan Jisong	The Simulation study of Subsynchronous Oscillation for Thyristor Controlled Series Compensation Transmission System of a Power Plant	China	Harbin Institute of Large Electric Machinery	Oral
FP17	20	Shen liang wei1, Jiao xiao xia2	The developing road of HEC Turbine generator	China	1-Harbin Institute of Large Electrical Machinery 2-Harbin Electric Machinery Company Limited	Oral
FP18	21	H. Zhu1, D. Kung1, M. Colwell1, S. Cherukupalli2	Experience With Acoustic Emission Monitoring Of Stator Winding Delaminations During Thermal Cycling Testing	Canada	1-Powertech Labs Inc. 2- BC Hydro	Oral
FP19	22	Toru Kubo, Hideyuki Hachiya	Recent Technologies for Hydro Generators and Generator-Motors	Japan	Toshiba corporation	Oral
FP20	23	F. Neumayer, F. Ramsauer, M. Himmelreich, G. Kastner	Methods for Fixation of the Rotor Winding Overhang of Large Asynchronous Hydrogenerators	AUSTRIA	Andritz Hydro	Oral
FP21	24	Zhang Zhengping	A Novel Online Diagnosing Technique of Rotor Turn-to-Turn Short Circuit of Large Turbine Generator	China	Power Science Institute of Guangdong Power Grid	Oral
FP22	25	Sun Liang1, Hu Haitao1, Gao Junguo1, Zhang Xiaohong1, Yuan Xiaohong2, Hu Chunxiu2	Calculation of Electric Field and Design of Internal Shielding Structure for Conductor in Stator Bar of 1000MW Turbo-Generator	China	1-College of Electrical & Electronic Engineering, Harbin University of Science and Technology 2-Harbin Institute of large electric machine insulation research department	Oral

FP23	26	Xie Xiaorong 1,Zhang Xiaojin1, Dong Xiaoliang 2,Li Guoqing2	Nonlinearity of Torsional Damping and its Effect on SSR Characteristics of Turbine-Generators	China	1-State Key Laboratory of Control and Simulation of Power Systems and Generation Equipments, Department of Electrical Engineering, Tsinghua University 2-Northeast Dianli University	Oral
FP24	27	Wang Xitian, Yang Xue, Chen Chen	Effect of Automatic Reclosing on the Torsional Fatigue Life Expenditure of Turbine-Generator Shafts	China	Dept. of Electrical Engineering, Shanghai Jiao Tong University	Oral
FP25	28	H.Sako, Y.Kaneda, S.Tomita, K.Mio, K.Suzuki	On-line PD Monitoring System with Microstrip Antenna for Rotating Machines	Japan	Mitsubishi Electric Corporation	Oral
FP26	29	Lei Xiangfu, Yang Guowei Li Chunlin, Wang Buyao,Li Suping	The Development of 5MW Off-shore Direct-drive wind turbine generator	China	Xiangtan Electric Manufacturing Corporation Ltd.	Oral
FP27	30	Tang Renyuan, Tong Wenming, An Zhongliang	Design of Permanent Magnet Wind Generators with Fractional Slot Concentrated Winding	China	Shenyang University of Technology	Oral
FP28	31	Liao Yigang Hou Xiaoquan Zhou Guanghou	Simulation Test and Research on Evaporative Cooling of Hydrogenerator for TGP (Underground)	China	Dongfang Electric Machinery Company Limited	Oral
FP29	33	Chaaban M. , Leduc J., Hudon C., Merkouf A., Torriano F.,Morissette J.F	Thermal analysis of Large Hydro-Generator based on a multi-physic approach	Canada	Hydro-Québec, IREQ	Oral
FP30	35	Sun Shumin1, Du jinhua2 Deliang Liang2	Modeling and Simulation of Direct-coupled Permanent Magnet Wind Generators System with Maximum Power Point Tracking Control Using Simplorer	China	1-shandon Electro power research institute 2-School of Electrical Engineering Xi'an Jiaotong University	Oral
FP31	36	Wang Jinsong1, Bai Kai1, Guo Jiayang1, Mei Zhigang1, Song Peng1,Wu Yuhui1 ,Bai Yamin1Zen Fang2, Sun Weiben2	Detection and Evaluation of Corona Defects on Generator Stator Winding Overhangs	China	1-North China Electric Power Research Institute 2-China Datang Corporation	Poster
FP32	38	Chen Fujia, Wang Hongyu,Tang Jianeng	Research on Low-voltage Ride-through Technology of grid-connected Doubly-Fed Wind Power Generation System	China	North China Electric Power University	Poster
FP33	39	Xing Xuhui,Wang	The test analysis of the 600MW generator stator bar	China	Beijing Beizhong Steam Turbine Generator Co., Ltd	Poster

		Yunshan,Zhuge Wenbing,Li Zhi	temperature measure			
FP34	41	SunYuguang1,HaoLiangLiang1,Wang,Xiangheng1, Sun Yutian2	Simulation Research on Inter-turn Short Circuits of Field Windings in Synchronous Machines	China	1-Tsinghua University 2-Harbin Research Institute of Large Electrical Machinery	Poster
FP35	42	Sun Shumin, Wen Ding, Liang Deliang	Study on Maximum Power Point Tracking Control for Switched Reluctance Generator Used in Wind Power Generation	China	Shandong Electric Power Research Institute	Poster
FP36	43	Song Peng1, Xie Xiaorong2,Zeng Fang3,Liang Yanjun3,Gao Xun4,Bai Kai1,Liu Ping1	Sensitive analysis on Electrical Parameters of Generators to Sub-synchronous Resonance	China	1-North China Electric Power Research Institute Co., Ltd 2- Tsinghua University 3- Datang International Power Generation Co., Ltd 4-North China Grid Co., Ltd	Poster
FP37	44	Ning Yuquan	Design and Research of 10MW Large Wind Turbine Generator	China	The Huazhong Univ.of Sci.& Tech	Poster
FP38	45	Mei Zhigang,Bai kai, Wang Jinsong, Wu Yuhui,Bai Yamin	Key Points of the On-site Operation and Interpretation On Off-line Partial Discharge Test of Generator Stator Windings	China	1-North China Electric Power Research Institute Co. Ltd.	Poster
FP39	46	NI Zhiying	On-line Monitoring Necessity and Urgency for the Vibration of Stator End Winding of Suizhong Power 800MW Generator	China	Shenhua Guohua Suizhong Power Generation Co.,Ltd	Poster
FP40	47	R.Zlatanovici, D.Zlatanovici, C.Cicirone,S.Dumitrescu	The conditional diagrams between the electric generator and the electric grid to which it is connected	Romania	ICEMENERG Bucharest	Poster
FP41	48	Li Dingzhong	The choices of cooling modes of giant hydro generators	China	China Hydropower Engineering Consulting Group Co.	Poster
FP42	50	Hu Lei 1, Hu xiao-hong1, Yuan jianhua1, Liang Xubiao1, Xian Zhelong1,Hu Xiaohong2 Yuan yi-chao2	Resistance analysis on the Gap-pickup diagonal flow passage in Turbo-generator Rotors	China	1-Shanghai Electric Power Generation Group 2-University of Shanghai for Science and Technology	Poster
FP43	51	Thomas Klamt1,YANG Zhongguo2	Design and Performance Test of 23kV Stator Bars for the Largest Air Cooled Hydro Generator in Xiang Jia Ba	1China 2Switzerland	1- ALSTOM Hydro (Switzerland) Ltd 2-Tianjin ALSTOM Hydro Power Co., Ltd	Poster

FP44	52	Zhong Houhong, Xian Zhelong , Zhao Wei, Liang Xubiao, Liu Minghui	Negative Sequence Eddy Current Field Analysis and Temperature Calculations of 1100MW Turbo-generator With 3D Finite Element Methods	China	Shanghai Electric Power Generation Equipment Co., Ltd	Poster
FP45	54	J.POLAK1, A.ELEZ 1, J.STUDIR1, N.BULAIC1,M.SASI C2	Methods for inter-coil short circuit detection in excitation winding coils of turbo generator in operation and in standstill condition	Croatia	1-Institut za elektrotehniku d.d 2-IRIS Power LP	Poster
FP46	56	Sun Yutian, Zhang Chunli	Study on electromagnetic design of special brushless exciter used for synchronous motors	China	Harbin Research Institute of Large Electrical Machinery	Poster
FP47	57	Cui Yibo Ruan Ling	Study on Internal Cooling Water Quality and Coils Corrosion of Large Generators	China	High Voltage Department of Hubei Electric Power Testing and Research Institute	Poster
FP48	58	ChenYang Wei Wei	Thermal cycle testing of form-wound stator bars for large indirectly air-cooled hydro-generator	China	Harbin Research Institute Of Large Electrical Machinery	Poster
FP49	59	Zou Jibin Zhao Bo	Asymmetry of Windings Inductance in High-Torque Low-Speed Multi-Unit Permanent Magnet Synchronous Motor	China	Harbin Institute of Technology	Poster
FP50	60	Zheng Wei,Chang Fujie,Ji Han, Liu Quan , Jiao Shaohua, Zhang Tao	Study And Application Of Mitigation And Protection Technology To SSR/SSO	China	Beijing Sifang Automation Co.,Ltd.	Poster
FP51	61	Zheng Wei, Wang Xiaofeng,  Wang Yingying, Liu Quan,Wang Shanshan, Jiao Shaohua,	Study On Asynchronous Self-excitation And Its Protection Measures In Generator	China	Beijing Sifang Automation Co.,Ltd.	Poster
FP52	63	Sun Yang1, Liang Yanping1, Sun Yutian2	Research on Transposition Methods of The Stator bars For 1000MW Hydro-generator	China	1-Harbin University of Science and Technology 2-Harbin Institute of Large Electrical Machinery	Poster
FP53	64	Yang Mo, Ge Baojun	Study of Quasi-synchronization Grid Connected of 1000MW Hydro-generator	China	Harbin University of Science and Technology	Poster