

Colloquium programme: Monday October 8, 2007

		Number of paper	Author(s)	Title
8:30	8:50	Opening Colloquium	J. Declercq, P. Boss & E. Gockenbach	
8:50	9:10	Cigre Activities D1	E. Gockenbach	
9:10	9:20	Opening Session PS1	L. Lundgaard	
9:20	9:40	PS1-01 (Keynote)	O. Lesaint	Prebreakdown phenomena in liquids and their relation with breakdown properties in high voltage applications
9:40	9:50	PS1-03	J. Rungis and Yi Li	Proposed changes to IEC 60060-1 and their application to impulse testing of power transformers
9:50	10:00	PS1-04	Z. Wang, A. Darwin and R. Martin	New insulation fluids: use of environmentally friendly fluids in power transformers
10:00	10:10	PS1-05	E. Gockenbach, H. Borsi and J. Lambrecht	New liquid insulating materials for power transformers
10:10	10:30	Questions		
10:30	11:00	Coffee break		

		Number of paper	Author(s)	Title
11:00	11:05	Opening Session PS1	L. Lundgaard	
11:05	11:15	PS1-06	D. Imamovic, K.X. Lai, N.A. Muhamad, B.T. Phung and T.R. Blackburn	Partial discharge and dissolved gas analysis in bio-degradeable transformer oil
11:15	11:25	PS1-07	R. Ahuja and R.M. Del Vecchio	Comparison of the thermal performance of FR3, a natural ester based coolant, with transformer oil
11:25	11:35	PS1-08	T. Kobayashi, Y. Ebisawa Y. Shirasaka and H. Murakami	Development of environment-considerate disaster-prevention type low-viscosity silicone liquid-immersed transformers and gas insulated transformers
11:35	11:45	PS1-09	K. Leuridan, J. Declercq, R.P. Marek and J.C. Duart	Compact power transformers for substation in urban areas using hybrid insulation system
11:45	11:55	PS1-10	E. Bräsel, U. Sasum, S. Tenbohlen and J. Aragon-Patil	Improved monitoring of dissolved transformer gases on the basis of a Natural Internal Standard (NIS)
11:55	12:05	PS1-11	L.C. Bates, R.P. Marek, O.B. Lee, R. Szewczyk and J.C. Duart	Comparison of DGA results of hybrid insulation and cellulose insulation in liquid-filled power transformers
12:05	12:15	PS1-12	V. Sokolov, M. Cunningham, D. Skelly, B. Vanin and V. Bereznoy	Effectiveness of methods for water-in-oil determination in power transformers and gas-in-oil solubility variations
12:15	12:40	Questions		
12:40	14:00	Lunch break		

		Number of paper	Author(s)	Title
14:00	14:05	Opening Session PS1	L. Lundgaard	
14:05	14:25	PS1-02 (Keynote)	I. Atanasova-Hoehlein	Application based specification for transformer fluids - needs and challenges
14:25	14:35	PS1-13	M.-C. Lessard and B. Noirhomme	Oxidation stability of inhibited reclaimed mineral insulating oil
14:35	14:45	PS1-14	T. Gradnik and M. Koncan- Gradnik	A rectifier transformer aging study using optical fibre temperature sensors, transformer thermal modelling, and EIMV physical-chemical diagnostics
14:45	14:55	PS1-15	L.E. Lundgaard – M.-H. Ese	Transformer life extension by oil additive
14:55	15:05	PS1-16	J. Lapworth, R.J. Heywood, P. Jarman and C. Meyers	Transformer insulation: towards more reliable residual life assessments
15:05	15:15	PS1-17	H.P. Gasser, Ch. Krause, T. Prevost and R. Schmid	Assessing the condition of power transformer insulation by post-mortem investigations on apparatuses to be scrapped
15:15	15:25	PS1-18	M. Koch, S. Tenbohlen, D. Giselbrecht, C. Homagk and T. Leibfried	Onsite, online and post mortem insulation diagnostics at power transformers
15:25	15:35	PS1-19	J. Rimez, P. Leemans and S. Eeckhoudt	Impact of furan analysis on asset management of high voltage transformers in the Belgian transmission network
15:35	15:50	Questions		
15:50	16:20	Coffee break		

		Number of paper	Author(s)	Title
16:20	16:30	Opening Session PS3	C. Bengtsson	
16:30	16:50	PS3-01 (Keynote)	R. Cormack	A snapshot into one utilities experience with the operation of shunt reactors
16:50	17:00	PS3-02	D. Robert, F. Martin and J.-P. Taisne	Insertion of current limiting or load sharing reactors in a substation. Impact on the specifications
17:00	17:10	PS3-03	M. Bollen, C. Bengtsson, L. Höjbjerg Nielsen, P. Høj Larsen and S. Damsgaard Mikkelsen	Application of regulated shunt reactor for off-shore wind farms
17:10	17:20	PS3-04	J.A.M. Veens, R. Verhoeven and M.J.M. van Riet	Experience in the Netherlands with a new concept of providing variable reactive compensation in a HV grid
17:20	17:30	PS3-05	J. Anger, C. Bengtsson, J. Forslin, P. Iyer and E. De Paula	Reactor tank vibrations in relation to sound levels and mechanical stress
17:30	17:40	PS3-06	A. Petersen, G. Russell and P.L. Austin	Australian experience with shunt reactors - reliability, condition assessment, end of life and impact on specifications
17:40	17:50	PS3-07	I. Diaconu, I.D. Hategan, P. Stroica, A. Ungereanu and P.I. Ruset	Recent maintenance experience on neutral reactors
17:50	18:00	PS3-08	J. Anger, C. Bengtsson, J. Forslin, K. Olsson and L. Yamazaki	An innovative concept for noise control of shunt reactors
18:00	18:10	Questions		

Colloquium programme: Tuesday October 9, 2007

		Number of paper	Author(s)	Title
8:30	8:40	Opening colloquium	<i>J. Declercq, P. Boss & E. Gockenbach</i>	
8:40	9:00	<i>Cigre Activities A2</i>	<i>P. Boss</i>	
9:00	9:10	Opening Session PS2	C. Rajotte	
9:10	9:30	PS2-01 (Keynote)	G. Machado Bastos	Reliability and Risk Assessment: A point of view from the Brazilian utilities or how the utilities in Brazil manage to achieve these objectives in a country with high energy demand
9:30	9:40	PS2-02	R. Asano Jr., A. da Costa, O. Rocha and G. Machado Bastos	Electrical transient interaction between transformers and the power system
9:40	9:50	PS2-04	M. Schäfer, M.A. Abdelghani, M. Rioual, P. Guinic and N. Schäfer	Impact of the circuit-breaker pole span on the over voltage risk during the energization of a 110kV grid power transformer: modeling and on site test validation
9:50	10:00	PS2-05	B. Cranganu-Cretu and G. Testin	Advanced 3D-FEM coupled magnetic-thermal simulations of power and industrial transformers: evaluation of hot-spots on the tank and structural parts
10:00	10:10	PS2-06	F. Bachinger and P. Hamberger	Steady state and transient thermal behavior of transformers filled with various insulating liquids
10:10	10:30	Questions		
10:30	11:00	Coffee break		

		Number of paper	Author(s)	Title
11:00	11:05	Opening Session PS2	C. Rajotte	
11:05	11:15	PS2-07	S. Eeckhoudt	Corrosive sulphur: overview of Belgian experience
11:15	11:25	PS2-08	A. de Pablo	Post-mortem investigations of winding paper deposits a look at copper sulphide deposition and failure mechanisms
11:25	11:35	PS2-09	M. Dahlund, H. Önnnerud, K. Gustafsson, R. Leandersson and M. Bergsblom	Determination of total mercaptan and disulphide content of insulating oil as a tool to assess potential corrosivity
11:35	11:45	PS2-10	T. Kobayashi, T. Amimoto, J. Tanimura, Y. Shirasaka and Y. Ebisawa	Research on Materials causing and preventin copper sulfide generation
11:45	11:55	PS2-11	A. Vita, P.R.T. Patrocino, S.A. Godinho, E.G. Peres and J. Baudalf	The effect of passivator additive used in transformers and reactors' mineral oil to neutralize the sulphur corrosion, and its influence on low thermal defects
11:55	12:05	PS2-12	M. Dahlund, L. Pettersson, H. Önnnerud, K. Gustafsson, R. Leandersson and S. Karlsson	Removing corrosive sulphur from transformer oil by using conventional on-line oil reclaiming technique
12:05	12:15	PS2-13	Dr Wiklund, Miss Levin, Prof. Pahlavanpour and Mr Nunes Naphthenics Research, Nynas Petroleum	Effectiveness of passivation for mineral insulating oil Recent international findings are indicating that presence of potentially corrosive sulphur compounds in the mineral insulating oil, in special circumstances, may lead to copper deposition in the transformer insulation and consequently transformer failure. On the other hand sulphur compounds also greatly contribute to oxidation stability of the oil. In any case to avoid copper dissolution and subsequent deposition, the use of a metal passivator is recommended. This paper reports investigations on the effectiveness and stability of a passivator in mineral insulating oil.
12:15	12:40	Questions		
12:40	14:00	Lunch break		

		Number of paper	Author(s)	Title
14:00	14:05	Opening Session PS2	C. Rajotte	
14:05	14:15	PS2-14	S. Meijer, P. Cichecki, P.D. Agoris, J.J. Smit and H.F. Reijnders	UHF partial discharge diagnostics for condition assessment of power transformers
14:15	14:25	PS2-15	P. Picher and C. Rajotte	Field experience with on-line bushing diagnostic to improve transformer reliability
14:25	14:35	PS2-16	A. Kraetge, W. Kalkner, R. Plath, K.-D. Plath, R. Jaekelmann, D. Eisemann and U. Hoffmann	The transient oil pressure measurement as a diagnostic method to assess the short circuit duty of power transformers
14:35	14:45	PS2-17	P. Long, E. Moutin, J.P. Taisne, L. Liebert, F. Devaux and A. Tanguy	Remnant life assessment of a thirty years substation transformer
14:45	14:55	PS2-18	R. Wimmer, S. Tenbohlen, K. Feser, A. Kraetge, M. Krüger, J. Christian, J. Schnitzler and E. Cottens	Improving the reliability of FRA measurements due to reducing outer influences by state-of-the-art connection technique
14:55	15:05	PS2-19	L.E. Lundgaard, O. Lillevik and K.B. Liland	Verification of paper condition in aged transformers
15:05	15:15	PS2-20	S.R. Lindgren and P.J. De Klerk	Avoiding transformer failures through on-line DGA lessons learned - new ballgame phase II
15:15	15:25	PS2-21	J. Aubin, H. Vogel, G. Bennett and J. Eitzel	Determination of moisture in transformer insulation from long duration measurement of moisture in oil
15:25	15:35	PS2-22	T. Kobayashi, H. Murakami, Y. Ebisawa and Y. Shirasaka	Increase of static electrification in power transformers by aging
15:35	15:50	Questions		
15:50	16:20	Coffee break		

		Number of paper	Author(s)	Title
16:20	16:25	Opening Session PS2	C. Rajotte	
16:25	16:35	PS2-23	T. Breckenridge and A.C. Hall	Transformer reliability: ensured by good procurement?
16:35	16:45	PS2-24	A. van Schijndel, J.M. Wetzer and P.A.A.F. Wouters	Forecasting reliability of individual transformers and transformer populations: a case study
16:45	16:55	PS2-25	G.K. Frimpong, M. Perkins and C.L. Stiegemeier	A practical approach to the assessment of risk of failure of power transformers
16:55	17:05	PS2-26	G. Ford, M. Vainberg, C. Kurtz and B. Desai	Advanced models for transformer life
17:05	17:15	PS2-27	D. Duarte, G. Pereira, T. Ancelmo and M. Pena	An overview of the direct costs of a power transformer fire in the context of Brazilian substations
17:15	17:25	PS2-28	D. Duarte, M. Pena and M. Oliveira	Identification of the transformer failures with a new logic diagram
17:25	17:35	PS2-29	H. van Breen, K. Heida, I. Karakoc and A. Janssen	Practical application of risk management on maintenance strategy of HV transformers in the Netherlands
17:35	17:45	PS2-30	P. Boss, L. Lungaard and V. Sokolov	What means and tools are required to maintain aged transformer population?
17:45	17:55	PS2-31	A. Petersen, G. Russell and P.L. Austin	Evaluation of transformers for refurbishment or replacement (incl. case studies)
17:55	18:10	Questions		