

Agenda for the June 5, 2009 Meeting of the IEEE Materials Subcommittee of the Electric Machinery Committee

Date: Friday, June 5, 2009
Time: 1300 – 1500 hours
Location: **Hilton Montréal Bonaventure 900, rue de La Gauchetière Ouest
Montréal, Québec, Canada H5A 1E4**

Room: LaSalle

1. Meeting call to order, Agenda, Introductions and Attendance sheet
2. Approval of the Minutes of the Last Meeting
3. Chair's Comments:

Nominating committee has been formed: **Chuck Wilson, Greg Stone and Gary Heuston.**

IEEE Standards Association requires that a request be made at each WG meeting for disclosure (identification) of any patents or copyrights that may be related to this work. The chair or the chair's delegate of an IEEE standards-developing working group or the chair of an IEEE standards Sponsor shall be responsible for informing the members of the working group/ participants at a meeting that if any individual believes that Patent Claims might be Essential Patent Claims, that fact should be made known to the entire working group and duly recorded in the minutes of the working group meeting. This request shall occur at every standards developing meeting once the PAR is approved by the IEEE-SA Standards Board.

The chair or the chair's delegate shall ask any patent holder or patent applicant of a Patent Claim that might be or become an Essential Patent Claim to complete and submit a Letter of Assurance in accordance with Clause 6 of the *IEEE-SA Standards Board Bylaws*. Information about the draft standard will be made available upon request.

- IEEE Dictionary - I have a hard copy.

4. Standards Coordinator Report and Discussion

- **Innocent Kamwa is the Standards Coordinator for the Electric Machinery Committee .**
- **(Nancy/ Chuck will forward meeting minutes to him after this meeting)**
- *95-2002 (reaff 2007) IEEE Recommended Practice for Insulation Testing of Large AC Rotating Machinery with Direct Voltage, (no work needed at this time)*
- *286-2000 (reaff 2006) IEEE Recommended Practice for Measurement of Power Factor and Power Factor Tip-up of Rotating Machinery Stator Coil Insulation (no work needed at this time)*
- *304-1977 (reaff 1991) IEEE Standard Test Procedure for Evaluation and Classification of Insulation Systems for Direct-Current Machines* **This document has been administratively withdrawn.**

- 522-2004 IEEE Guide for Testing Turn-to-Turn Insulation on Form-Wound Stator Coils for Alternating-Current Rotating Electric Machines (**ACTION: Chuck Wilson sent out a reaffirmation ballot in February – there was one negative vote about some typos - I am working on it – I believe I will be able to resolve it and there will not be a meeting in June**)
- 1043-1996 (reaff 2003) IEEE Recommended Test Procedure for Performing Voltage-Endurance Testing of Form-Wound Coils and Bars (we need to consider working on this standard) Greg Stone suggested it should be reaffirmed – group agrees.
ACTION: Sudhakar Cherukupalli, (DEIS) is moving forward with paperwork for re-affirmation.
- 1107-1996 IEEE Recommended Practice for Thermal Evaluation of Sealed Insulation Systems for AC Electric Machinery Employing Random-Wound Stator Coils – **This document has been administratively withdrawn.** (Information to be included as annex to 117 **ACTION: Nancy Frost**)
- 1434-2000 (reaff 2005) IEEE Guide to the Measurement of Partial Discharges in Rotating Machinery (no work needed at this time)
- 1553-2002 (reaff 2007) IEEE Test and Acceptance Criteria for Voltage-Endurance Testing of Form-Wound Coils and Bars used in Hydroelectric Generators and Large Pumped Storage Motors Reaffirmation was completed in 2007 by Aleksandra.
- 433-1974 (1991) IEEE Recommended Practice for Insulation Testing of Large AC Rotating Machinery with High Voltage at Very Low Frequency (**ACTION: Stefano is working on this as a recirculation to deal with the points that were under possible contention. Report: Stefano reported at the last meeting that all comments were dispositioned, Dr. Sedding will be obtaining references, and Prof. Bartnikas will re-write the introduction.**)
- 434-2006 IEEE Guide for Functional Evaluation of Insulation Systems for AC Electric Machines Rated 2300 Volts and Higher (no work needed at this time).

5. Working Group Reports and Discussion

- 43-2000 (reaff 2006) IEEE Recommended Practice for Testing Insulation Resistance of Rotating Machinery, **Chair: Ian Culbert**
- 56-1977 (reaff 1991) IEEE Guide for Insulation Maintenance of Electric Machines Rated 35 kVA and Higher, **Chair: Doug Conley** **This document has been administratively withdrawn.** Should go to straw ballot, and submit to IEEE for format review prior to sending out for ballot.
- 117-1974 (reaff 1991) IEEE Standard Test Procedure for Evaluation of Systems of Insulating Materials for Random-Wound AC Electric Machinery, **Chair: Nancy Frost** **This document has been administratively withdrawn.**
- 1310-1996 (2004 reaffirmed) IEEE Recommended Practice for Thermal Cycle Testing of Form-Wound Stator Bars and Coils for Large Generators, **Chair: Greg Stone**

- EMC-GSC P1665 *IEEE Guide for the Rewind of Synchronous Generators, 50 and 60 Hz, rated 1 MVA and above*, **Chair: William Bartley**
- P1719 *IEEE Guide for Evaluating Stator Cores of AC Electric Machines Rated 1 MVA and Higher*, **Chair: Glenn Mottershead**
- P1776 *IEEE Recommended Practice for Thermal Evaluation of Sealed or Unsealed Insulation Systems for AC Electric Machinery Employing Form-Wound Pre-Insulated Stator Coils for Machines Rated 15000 Volts and Below*, **Chair: Chuck Wilson** **Draft 12 (final) was issued by the IEEE on February 13, 2009. You should have all received a copy.**
- P1798 *IEC 60034, Rotating Electrical Machines – Part 18-41: Qualification and Type Tests for Type I Electrical Insulation Systems Used in Rotating Electrical Machines Fed by Voltage Converters*. **Chair: Meredith Stranges** **This meeting will be conducted by Greg Stone.**
- P1799 *IEEE Recommended Practice for Quality Control Testing of External Discharges on Form-Wound Coils, Vacuum Pressure Impregnated Stator Insulation and Fully Assembled Stator Windings*. **Chair: Remi Tremblay** A new draft and the PAR have been issued.
- Awards and Recognition. **Chair: Hugh Zhu**

6. Liaison Reports

- IEC
- CIGRE
- Electric Machines Committee
- Generator SC

7. Old Business

8. New Business

9. Next Meeting

Possible Fall, 2009 dates and sites for meetings:

October 10-12, 2009

2009 Electrical Manufacturing Expo (EMEXPO 2009), Opryland Convention Center, Nashville, TN, USA.

October 18-21, 2009

2009 IEEE Conference on Electrical Insulation and Dielectric Phenomena (CEIDP'2009), Virginia Beach Resort, Virginia Beach, VA, USA.



Other Suggestions?????????:

10. Adjournment

Chuck

Chuck Wilson

/caw