

EMC - Standard Coordinator Report July 25, 2012

I reviewed the status of PARs, Standards and Guides under EMC responsibility. The status of the PARs is summarized below. We have **24** active standards and guides (one less than the year before), **17** lapsed standards and guides (one more than the year before) and **11** on-going PARs (the same number as the year before). The actions to be taken for keeping up-to-date the approval of the PARs and for keeping live the Standards and Guides are identified. A summary of the specific approvals received since the July 2011 meeting of the EMC in Detroit are identified as well.

Information concerning the Standards Association (SA), Board of Governors, Committees of SA, the Development of standards, Recommended Practices and Guides and related issues is available on the following web site.

<http://standards.ieee.org/>

Some of the other web sites for obtaining useful information are as follows.

Information on	Web site address
Update your information with SA	http://standards.ieee.org/resources/development/
myBallot Voter presentation	http://standards.ieee.org/db/balloting/myballotdemo.ppt
myBallot Chair presentation	http://standards.ieee.org/db/balloting/myballotchairdemo.ppt
PAR application, extension and other forms	http://www.standards.ieee.org/guides/par/
Submitting a PAR	https://development.standards.ieee.org/kamwa/select-par-type

PAR Extension	http://standards.ieee.org/guides/par/extension.rtf
Style manual	http://www.standards.ieee.org/guides/style/2000Style.pdf
Template	http://www.standards.ieee.org/resources/spasystem/index.html
Up-load drafts for balloting	http://standards.ieee.org/eprocess/upload_balloting_file/
Request for invitation to ballot	http://standards.ieee.org/resources/development/ Follow: Balloting the Draft → Ballot Invitation → Requesting a Ballot Invitation
Join a balloting pool	
Submit request for initiating balloting	http://standards.ieee.org/resources/development/ Follow: Balloting the Draft → Sponsor Ballot → Requesting Initiation of a Ballot
Submit request for recirculation ballot	http://standards.ieee.org/resources/development/ Follow: Balloting the Draft → Sponsor Ballot → Requesting Initiation of a Ballot → Recirculation ballot
Status of standards etc	http://standards.ieee.org/db/status/index.shtml
NesCom activities	http://www.standards.ieee.org/board/nes/
RevCom activities	http://standards.ieee.org/board/rev/
SA Operations Manual	http://standards.ieee.org/sa/sa-om-toc.htm
SA Bylaws	http://standards.ieee.org/guides/bylaws/index.htm
SB Operations Manual	http://standards.ieee.org/guides/opman/index.html
SB Bylaws	http://standards.ieee.org/guides/bylaws/index.html

Some important Information

The IEEE-SA Standards Board Bylaws and the IEEE-SA Standards Board Operations Manual. The text of the changes made to these documents in 2005 can be found at <http://standards.ieee.org/board/pro/2005changes.pdf>

The IEEE Standards Association (IEEE-SA) Standards Board has launched a new online Project Authorization Request (PAR) Form. The upgraded online PAR Form (<http://standards.ieee.org/guides/par/>) leads you step-by-step through the PAR process.

Standards Coordination Effort

PARs applied for by all Committees of the Power Engineering Society (PES) are circulated among the Standards Coordinators of the PES Committees. Every PAR approved by the Standards Board is posted on the SA Web site at the following address.

<http://standards.ieee.org/board/nes/approved.html>

If you are interested in the development work planned in a PAR, contact the Chair of the Working Group that is developing the document and sign up for participating in the activity of that Working Group.

Standards Activities Since The July 2011 EMC Meeting

The status of the standards activities, which have taken place since the July, 2010, meeting of the EMC, are as follows.

➤ **Standards Published**

1310-2012 IEEE Recommended Practice for Thermal Cycle Testing of Form-Wound Stator Bars and Coils for Large Rotating Machines

➤ **Standards reaffirmed**

1255-2000 IEEE Guide for Evaluation of Torque Pulsations During Starting of Synchronous Motors

11-2000 IEEE Standard for Rotating Electric Machinery for Rail and Road Vehicles

➤ **Standards withdrawn**

252 – 1995 IEEE Standard Test Procedure for Polyphase Induction Motors having Liquid in the Magnetic Gap

➤ **Standards approved**

1310-2012 IEEE Recommended Practice for Thermal Cycle Testing of Form-Wound Stator Bars and Coils for Large Rotating Machines

➤ **Standards submitted for Balloting/ Recirculation by July 2012**

1799-2012 IEEE Recommended Practice for Quality Control Testing of External Discharges on Form-Wound Coils, Roebel Bars, Vacuum Pressure Impregnated Stator Insulation and Fully Assembled Stator Windings
95-2002 IEEE recommended practice for insulation testing of AC electric machinery (2300 V and above) with high direct voltage
286-2000 IEEE Recommended Practice for Measurement of Power-Factor Tip-Up of IEEE Rotating Machinery Stator Coil Insulation.
434-2006 IEEE Guide for Functional Evaluation of Insulation Systems for Large High Voltage Machines

➤ **Standards due for 5 year review in 2012 (this year)**

1255-2002 IEEE Guide for Evaluation of Torque Pulsations During Starting of Synchronous Motors
11-2000 IEEE Standard for Rotating Electric Machinery for Rail and Road Vehicles
286-2000 IEEE Recommended Practice for Measurement of Power-Factor Tip-Up of IEEE Rotating Machinery Stator Coil Insulation.
434-2006 IEEE Guide for Functional Evaluation of Insulation Systems for Large High Voltage Machines

➤ **New PARs applied for**

P1129 IEEE Guide for Online Monitoring of Large Synchronous Generators(10 MVA and above)
P56 IEEE Guide for Insulation Maintenance of Electric Machines

➤ **New PARs approved/modified**

- P1129** IEEE Guide for Online Monitoring of Large Synchronous Generators(10 MVA and above)
- P56** IEEE Guide for Insulation Maintenance of Electric Machines

➤ **PAR Extensions applied for**

- P1719** IEEE Guide for Evaluating Stator Cores of AC Synchronous Electric Machines Rated 1 MVA and Higher
- P117** IEEE Standard Test Procedure for Thermal Evaluation of Systems of Insulating Materials for Random-Wound AC Electric Machinery

➤ **PAR Extensions approved**

- P1719** IEEE Guide for Evaluating Stator Cores of AC Synchronous Electric Machines Rated 1 MVA and Higher
- P117** IEEE Standard Test Procedure for Thermal Evaluation of Systems of Insulating Materials for Random-Wound AC Electric Machinery

➤ **PARs Withdrawn**

None

➤ **PARs expiring at the end of 2012 (this year)**

None

➤ **PARs expiring at the end of 2013 (next year)**

- P43** Recommended Practice for Testing Insulation Resistance of Rotating Machinery
- P117** Standard Test Procedure for Thermal Evaluation of Systems of Insulating Materials for Random-Wound AC Electric Machinery
- P1812** Guide for Testing Permanent Magnet Machines
- P1798** Recommended Practice for Thermal Evaluation of Unsealed or Sealed Insulation Systems for AC Electric Machinery Employing Form-Wound Pre-insulated Stator Coils for Machines Rated 15000 V and Below

SUBMITTAL DEADLINES & STANDARDS BOARD MEETING SCHEDULE

<http://standards.ieee.org/board/index.html>

PAR/Standard Submittal Deadline

24 January 2013

03 May 2013

12 July 2013

21 October, 2013

Standards Board Meeting

4 March 2013

12 June 2013

21 August 2013

9 December 2013

For further information, see the attached spreadsheet

or contact: Innocent Kamwa - EMC Standards Coordinator at

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EMC WG LISTING : 32 working groups; 8 under Generators, 16 under Materials and 7 under Motors.

Note: to be designated as WG chair, send a request to the EMC Standards Coordinator with copy to the staff Liaison and the chair of the subcommittee.

IEEE STANDARDS ASSOCIATION

Name	Designator	Contact	Staff Liaison	Roster	Actions
Sponsor Committees					
Electric Machinery	PE/EM	Innocent Kamwa	Malia Zaman	211	manage
Working Group Committees					
Generator Subcommittee	PE/EM/GEN-SC	John Ready	Malia Zaman	24	manage
Generator SC - Test Procedure for Synchronous Machines - WG#7	PE/EM/GEN - WG115	Haran Karmaker	Malia Zaman	21	manage
Generator SC - Generator Rewinds - WG#3	PE/EM/GEN - WG1665	William Bartley	Malia Zaman	22	manage
Generator SC - Grid Induced Torsional Vibrations in Large Turbine Generators - WG#4	PE/EM/GEN - WG4	Innocent Kamwa	Malia Zaman	6	manage
Generator SC - Operation and Maintenance of Hydro-Generators - WG#5	PE/EM/GEN - WG492	Innocent Kamwa	Malia Zaman	11	manage
Generator SC - Application of Superconductor Machines - WG#6	PE/EM/GEN - WG6	Innocent Kamwa	Malia Zaman	4	manage
Generator SC - Operation and Maintenance of Turbine Generators	PE/EM/GEN - WG67	Innocent Kamwa	Malia Zaman	15	manage
Generator SC - Coordination of C50s and IEC - WG#8	PE/EM/GEN - WG8	Kay Chen	Malia Zaman	8	manage
Generator SC - Renewable Energy Machines and Systems - WG#9	PE/EM/GEN - WG9	Innocent Kamwa	Malia Zaman	8	manage

Materials Subcommittee	PE/EM/Matl - SC	Innocent Kamwa	Malia Zaman	6	manage
Materials SC - Standard Test Procedure for Evaluation of Systems of Insulating Materials for Random-Wound AC Rotating Electrical Machinery	PE/EM/Matl - WG117	Nancy Frost	Malia Zaman	10	manage
Materials SC - Thermal Cycle Testing of Form-Wound Stator Bars and Coils for Large Generators	PE/EM/Matl - WG1310	Gregory Stone	Malia Zaman	12	manage
Materials SC - Measurement of Partial Discharges in AC Electric Machinery	PE/EM/Matl - WG1434	William McDermid	Malia Zaman	12	manage
Materials SC - Voltage Endurance Testing of Form-Wound Coils and Bars for Hydrogenerators	PE/EM/Matl - WG1553	Innocent Kamwa	Malia Zaman	9	manage
Materials SC - Stator Core Evaluation of Synchronous Machines	PE/EM/Matl - WG1719	Glenn Mottershead	Malia Zaman	12	manage
Materials SC - Thermal Evaluation of Insulation Systems	PE/EM/Matl - WG1776	Chuck Wilson	Malia Zaman	21	manage
Materials SC - Qualification and Type Tests for Partial Discharge (PD)-Free Electrical Insulation Systems Used in Rotating Electrical Machines Fed from Voltage Converters	PE/EM/Matl - WG1798	Meredith Stranges	Malia Zaman	8	manage
Materials SC - Quality Control Testing of External Discharges on Form-Wound Coils, Roebel Bars, Vacuum Pressure Impregnated Stator Insulation and Fully Assembled Stator Windings.	PE/EM/Matl - WG1799	Remi Tremblay	Malia Zaman	8	manage
Materials SC - Measurement of Power Factor Tip-Up of Electric Machinery Stator Coil Insulation	PE/EM/Matl - WG286	Gary Heuston	Malia Zaman	11	manage
Materials SC - Testing Insulation Resistance of Rotating Machinery	PE/EM/Matl - WG43	Ian Culbert	Malia Zaman	13	manage
Materials SC - Insulation Testing of AC Electric Machinery with High Voltage at Very Low Frequency	PE/EM/Matl - WG433	Howard Sedding	Malia Zaman	16	manage
Materials SC - Functional Evaluation of Insulation Systems for AC Electric Machines	PE/EM/Matl - WG434	Stefano Bomben	Malia Zaman	21	manage
Materials SC - Turn Insulation of Form-Wound Stator Coils	PE/EM/Matl - WG522	Chuck Wilson	Malia Zaman	19	manage
Materials SC - Insulation Maintenance of Electric Machines	PE/EM/Matl - WG56	DOUGLAS	Malia Zaman	18	manage

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Materials SC - Diagnostic Field Testing of Electric Power Apparatus - Electrical Machinery	PE/EM/Matl - WG62.2	Innocent Kamwa	Malia Zaman	8	manage
Materials SC - Insulation Testing of AC Electric Machinery with High Direct Voltage	PE/EM/Matl - WG95	David Mckinnon	Malia Zaman	18	manage
Motor Subcommittee	PE/EM/Motor - SC	Innocent Kamwa	Malia Zaman	7	manage
Motor SC - Rotating Electric Machinery for Rail and Road Vehicles	PE/EM/Motor - WG11	Innocent Kamwa	Malia Zaman	3	manage
Motor SC - Test Procedure for Polyphase Induction Motors and Generators	PE/EM/Motor - WG112	Nick Stranges	Malia Zaman	9	manage
Motor SC - Evaluation of Torque Pulsations During Starting of Synchronous Motors	PE/EM/Motor - WG1255	Nick Stranges	Malia Zaman	7	manage
Motor SC - Induction Machinery Maintenance Testing and Failure Analysis	PE/EM/Motor - WG1415	John Ready	Malia Zaman	16	manage
Motor SC - Testing Permanent Magnet Machines	PE/EM/Motor- WG1812	Haran Karmaker	Malia Zaman	5	manage
Motor SC - Test Procedure for Polyphase Induction Motors	PE/EM/Motor - WG252	Innocent Kamwa	Malia Zaman	16	manage
Motor SC - Presentation of Thermal Limit Curves for Squirrel Cage	PE/EM/Motor - WG620	Innocent Kamwa	Malia Zaman	54	manage
Working Group 10 for Online Monitoring of Large Synchronous Generators	PE/EM/WG10/1129	Innocent Kamwa	Malia Zaman	0	manage

EMC PARs LISTING :11 PARs; 2 under Generators, 6 under Materials and 2 under Motors.

PE/EM Projects – Active PARs

<u>Sponsor▲</u>	<u>PAR Number</u>	<u>Title</u>	<u>URL</u>	<u>PAR Approval</u>
PE/EM	P43	Recommended Practice for Testing Insulation Resistance of Electric Machinery	https://development.standards.ieee.org/get-file/P43.pdf?t=63333600003	05-Feb-2010
PE/EM	P56	Guide for Insulation Maintenance of Electric Machines	https://development.standards.ieee.org/get-file/P56.pdf?t=76673300003	30-Aug-2012
PE/EM	P112	Standard Test Procedure for Polyphase Induction Motors and Generators	https://development.standards.ieee.org/get-file/P112.pdf?t=63340900003	05-Feb-2010
PE/EM	P117	Standard Test Procedure for Thermal Evaluation of Systems of Insulating Materials for Random-Wound AC Electric Machinery	https://development.standards.ieee.org/get-file/P117.pdf?t=77394900003	05-Dec-2012
PE/EM	P1129	Guide for Online Monitoring of Large Synchronous Generators (10 MVA and above)	https://development.standards.ieee.org/get-file/P1129.pdf?t=77174300003	02-Nov-2012
PE/EM	P1415	Guide for Induction Machinery Maintenance Testing and Failure Analysis	https://development.standards.ieee.org/get-file/P1415.pdf?t=70288700003	16-Jun-2011
PE/EM	P1434	Guide for the Measurement of Partial Discharges in AC Electric Machinery	https://development.standards.ieee.org/get-file/P1434.pdf?t=8491000003	08-Dec-2010
PE/EM	P1719	Guide for Evaluating Stator Cores of AC Electric Machines Rated 1 MVA and Higher	https://development.standards.ieee.org/get-file/P1719.pdf?t=76673600003	30-Aug-2012

PE/EM	P1798	Guide for Qualification and Type Tests for Partial Discharge (PD)-Free Electrical Insulation Systems Used in Rotating Electrical Machines Fed from Voltage Converters	https://development.standards.ieee.org/get-file/P1798.pdf?t=65588400003	30-Jan-2009
PE/EM	P1812	Guide for Testing Permanent Magnet Machines	https://development.standards.ieee.org/get-file/P1812.pdf?t=22542400003	09-Dec-2009
PE/EM	PC50.13	Standard for Cylindrical-Rotor 50 Hz and 60 Hz Synchronous Generators Rated 10 MVA and Above	https://development.standards.ieee.org/get-file/PC50.13.pdf?t=70289100003	16-Jun-2011

