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09 December 2005

Richard H Hulett
Thermon Industries
237 Muse Drive
El Dorado Hills, CA 95762
rhulett@thermon.com

Re: P1683 - Standard for Motor Control Centers Rated up to 1000 volts with Requirements Intended to Reduce Injuries and Improve Reliability

Dear Richard:

I am pleased to inform you that on 07 December 2005 the IEEE-SA Standards Board approved the above referenced project until 31 December 2009. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1683.pdf>.

Now that your project has been approved, please forward a roster of participants involved in the development of this project. This request is in accordance with the IEEE-SA Operations Manual, Clause 5.1.2i under Duties of the Sponsor which states:

"Submit annually to the IEEE Standards Department an electronic roster of individuals participating on standards projects"

For your convenience, an Excel spreadsheet for your use has been posted on our website at <http://standards.ieee.org/guides/par/roster.xls>. Please forward this list to me via e-mail at j.haasz@ieee.org no later than 07 March 2006.

Please visit our website, IEEE Standards Development Online (<http://standards.ieee.org/resources/development/index.html>), for tools, forms and training to assist you in the standards development process. Also, we strongly recommend that a copy of your draft be sent to this office for review prior to the final vote by the working group to allow for a quick review by editorial staff before sponsor balloting begins.

If you should have any further questions, please contact me at 732-562-6367 or by email at j.haasz@ieee.org.

Sincerely,

Jodi Haasz
Program Manager
International Stds Programs and Governance
Standards Activities
Phone +1 732 562 6367
FAX +1 732 875 0695
Email: j.haasz@ieee.org

CC: h.l.floyd@ieee.org, blmcclung@ieee.org, c.m.wellman@ieee.org

PAR FORM

PAR Status: New PAR

PAR Approval Date: 07 December 2005

PAR Signature Page on File: Yes

1. Assigned Project Number: P1683

2. Sponsor Date of Request: 2005-08-02

3. Type of Document: Standard for

4. Title of Document:

Draft: Standard for Motor Control Centers Rated up to 1000 volts with Requirements Intended to Reduce Injuries and Improve Reliability

5. Life Cycle: Full-Use

6. Type of Project:

6a. Is this an update to an existing PAR? No

6b. The Project is a: New Standard

7. Working Group Information:

Name of Working Group: Improved safety and reliability in Low Voltage Motor Control Centers Working Group

Approximate Number of Expected Working Group Members:40

8. Contact information for Working Group Chair:

Name of Working Group Chair: Ben McClung

Telephone: 304-984-3877 **FAX:**

Email: blmclung@ieee.org

9. Contact information for Co-Chair/Official Reporter, Project Editor or Document Custodian if different from the Working Group Chair:

Name of Co-Chair/Official Reporter, Project Editor or Document Custodian: Craig M Wellman

Telephone: 302-731-0798 **FAX:**

Email: c.m.wellman@ieee.org

10. Contact information for Sponsoring Society or Standards Coordinating Committee:

Name of Sponsoring Society and Committee: IEEE Industry Applications Society Petroleum & Chemical Industry

Name of Sponsoring Committee Chair: H. Landis Floyd

Telephone: 302-695-0146 **FAX:** 302-695-0734

Email: h.l.floyd@ieee.org

Name of Liaison Rep. (if different from the Sponsor Chair): Richard H Hulett

Telephone: 916-939-0394 **FAX:** 916-933-5577

Email: rhulett@thermon.com

Name of Co-Sponsoring Society and Committee:

Name of Co-Sponsoring Committee Chair:

Telephone: FAX:

Email:

Name of Liaison Rep. (if different from the Sponsor Chair):

Telephone: FAX:

Email:

11. The Type of ballot is: Individual Sponsor Ballot

Expected Date of Submission for Initial Sponsor Ballot: March 2008

12. Projected Completion Date for Submittal to RevCom: September 2009

Target Extension Request Information for a Modified PAR whose completion date is being extended past the original four-year life of the PAR:

13. Scope of Proposed Project:

This standard provides functional design and factory test requirements for motor control centers rated up to 1000 volts AC 50/60 Hz intended to reduce the possibility of injuries caused by shock or internal arcing events to employees performing normal operations on the motor control center. These requirements are also intended to allow more reliable operation. Normal operations are considered to include:

- operation of door mounted controls
- testing for absence of voltage in unit and on bus
- troubleshooting for failed components or faulted conductors in or connected to the unit
- replacement of any fuses and resetting of any protective devices which could blow or trip due to an external failure or overload
- disconnection and removal of removable units
- reinsertion and reconnection of removable units
- adjustment of settings in the unit
- replacement of indicator lamps.

The requirements of this guide are intended to supplement the existing requirements of the applicable standards for motor control centers, including NEMA ICS 18-2001 "Motor Control Centers" and ANSI/UL 845-2005 "Motor Control Centers" (also known as NMX-J-353-ANCE-2006 and CSA C22.2 No. 254-05).

Compliance with this standard is optional, and when required, must be specifically stated as a requirement in the purchase contract.

Is the completion of this document contingent upon the completion of another document?

No

14. Purpose of Proposed Project:

This standard enables equipment suppliers to provide a motor control center (MCC) designed and factory tested with a specific set of features. These features are intended to reduce the rate of user

employee shock and arc flash injuries. They are also intended to improve reliability i.e. increase the mean time between failures compared to equipment meeting the base NEMA and ANSI/UL standards referenced above.

This standard enables suppliers of MCCs to offer users MCCs meeting an IEEE standard for increased safety and reliability.

Equipment specified to this standard may be subject to less onerous operating and maintenance requirements in a future edition of NFPA 70E "Standard for Electrical Safety Requirements for Employee Workplaces."

15. Reason for the Proposed Project:

Arc flash incidents, shock exposures, burn downs, and service interruptions should be reduced in MCCs meeting this standard. Electrical hazards for personnel performing maintenance and operational tasks on this equipment will be minimized. Many owners of industrial plants, commercial buildings and governmental buildings have sought motor control centers that are significantly safer to operate than currently available equipment. Manufacturers of such equipment would like to respond to this desire, but are not able to respond with reasonably economic solutions to a multiplicity of different requirements from different organizations. This project will enable the two sides to develop together a single set of requirements which will enable improved safety at a reasonable cost. This standard is intended to provide users with a document that will enable greater safety for personnel that from time to time may be required to work on or near the MCCs.

16. Intellectual Property:

- a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR?** Yes 2005-05-17
- b. Is the sponsor aware of copyright permissions needed for this project?** No
- c. Is the sponsor aware of trademarks that apply to this project?** No
- d. Is the sponsor aware of possible registration activity related to this project?** No

17. Are there other documents or projects with a similar scope? No

Similar Scope Project Information:

18. Is there potential for this document (in part or in whole) to be adopted by another national , regional or international organization? Do not know at this time

If yes, the following questions must be answered:

Organization Name?

Technical

Committee

International

Contact

Information?

19. Will this project result in any health, safety, or environmental guidance that affects or applies to human health or safety? Yes

If yes, please explain:

The proposed standard is intended to significantly reduce the rate at which electrical injuries occur while employees are operating or maintaining Motor Control Centers.

20. Sponsor Information

a. Is the scope of this project within the approved/scope/definition of the Sponsor's Charter? Yes

If no, please explain:

b. The Sponsor's procedures have been accepted by the IEEE-SA Standards Board Audit Committee? Yes

21. Additional Explanatory Notes: (Item Number and Explanation)

Vice Chair is Marcelo Valdes, marcelo.valdes@indsys.ge.com