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28 February 2007

Kimberly Eastwood
Thermon Manufacturing Co.
100 Thermon Drive
San Marcos, TX USA 78666
kimeastwood@ieee.org

Re: P1068 - Standard for the Repair and Rewinding of AC Electric Motors in the Petroleum, Chemical and Process Industries

Dear Kimberly:

I am pleased to inform you that on 27 February 2007 the IEEE-SA Standards Board approved the above referenced project until 31 December 2008. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1068.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 s.hampton@ieee.org no later than 28 May 2007.

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 +1 732 562 6003 or by email at s.hampton@ieee.org.

Sincerely,

Sherry Hampton
Administrator, Governance
Standards Activities
Phone +1 732 562 6003
FAX +1 732 875 0695
Email: s.hampton@ieee.org

CC: t.griffith@ieee.org BCC: s.hampton@ieee.org, t.t.lee@ieee.org

PAR Request Date: 05 January 2007**PAR Approval Date:** 27 February 2007**PAR Signature Page on File:** Yes**Type of PAR:** Modification to Approved PAR**Status:** Modification to a Previously Approved PAR for the Revision of a Standard - P1068, 10 May 2005**Root Project:** IEEE Std 1068-1996**1.1 Project No.:** **1068****1.2 Type of Document:** Standard**1.3 Life Cycle:** Full-Use**1.4 Is this document in ballot now?** No**2.1 Title**

Standard for the Repair and Rewinding of AC Electric Motors in the Petroleum, Chemical and Process Industries

3.1 Working Group Name [Repair and Rewinding of Electric Motors](#)**Working Group Chair**[Griffith, John Travis](#)

Phone: 281-373-5969

Email: t.griffith@ieee.org

Working Group Vice Chair**3.2 Sponsor**[IEEE Industry Applications Society Petroleum & Chemical Industry \(IAS/PCI\)](#)**Sponsor Chair**[Eastwood, Kimberly](#)

Phone: 512 396 5880

Email: kimeastwood@ieee.org

Name of Standards Liaison Representative (if applicable)[McBride, William E](#)

Phone: 907-265-6496

Email: mcbrid@mail.aai.arco.com

3.3 Joint Sponsor**4.1 Type of Ballot:** Individual**4.2 Expected Date of Submission for Initial Sponsor Ballot:** September 2007**4.3 Projected Completion Date for Submittal to RevCom:** March 2008**5.1 Approximate number of people expected to work on this project:** 20

5.2 Scope: This document covers general recommendations for the repair of electric motors and includes guidelines for both the user and the repair facility. It is not intended to replace specific instructions contained in the manufacturer's instruction book or in any contractual agreement between a manufacturer and a purchaser of a given machine. This standard covers reconditioning, repair and rewind of horizontal and vertical induction motors and synchronous machines. It applies to all voltages 15 kV and less and all ratings above 0.75 kW (1 Hp). This standard applies only to the repair of motors and in those cases involving modifications to the basic design, care must be taken so as not to negatively affect the safety and reliability of the machine. Excluded from the scope of this standard are the following: - Specific requirements, certification, and inspection required for explosion proof, dust ignition proof, flameproof and like machines having a listing issued by a Nationally Recognized Testing Laboratory (NRTL). For example: Underwriters Laboratories (UL), Factory Mutual (FM), Canadian Standards Association (CSA), etc. - Any specific or additional requirements for hermetic motors, hydrogen-cooled machines, submersible motors, or Class 1E nuclear service motors. - DC machines

Old Scope: This document covers general recommendations for the repair of electric motors and includes guidelines for both the user and the repair facility. It is not intended to replace specific instructions contained in the manufacturer's instruction book or in any contractual agreement between a manufacturer and a purchaser of a given machine. This standard covers reconditioning, repair and rewind of horizontal and vertical induction motors and synchronous machines. It applies to all voltages 15 kV and less and all ratings above 0.75 kW (1 Hp). This standard applies only to the repair of motors and in those cases involving modifications to the basic design, care must be taken so as not to negatively affect the safety and reliability of the machine. Excluded from the scope of this standard are the following: - Specific requirements, certification, and inspection required for explosion proof, dust ignition proof, flameproof and like machines having a listing issued by a Nationally Recognized Testing Laboratory (NRTL). For example: Underwriters Laboratories (UL), Factory Mutual (FM), Canadian Standards Association (CSA), etc. - Any specific or additional requirements for hermetic motors, hydrogen-cooled machines, submersible motors, or Class 1E nuclear service motors. - DC machines

5.3 Is the completion of this document contingent upon the completion of another document? No

5.4 Purpose: This standard is intended to be a basic or primary document that can be utilized and referenced by owners of motors that need repair as well as by owners and operators of establishments that offer motor repair services. It has been developed primarily for the needs of the Petroleum and Chemical Industry but can be adapted to other applications. The use of this standard by users and repair facilities is expected to result in higher-quality, more cost-effective, and timely repairs. It also provides a means of evaluating repairs and facilities.

Old Purpose: This standard is intended to be a basic or primary document that can be utilized and referenced by owners of motors that need repair as well as by owners and operators of establishments that offer motor repair services. It has been developed primarily for the needs of the Petroleum and Chemical Industry but can be adapted to other applications. The use of this standard by users and repair facilities is expected to result in higher-quality, more cost-effective, and timely repairs. It also provides a means of evaluating repairs and facilities.

5.5 Need for the Project: This use of this document has evolved from a guide, through a recommended practice and now requires the intent and strength of a standard. Recently developed practices and policies of the petroleum and chemical industries, and the corresponding procedures of repair facilities mandate document improvement. The stakeholders for the project are petroleum companies, chemical companies, pipelines, engineering companies, and repair facilities having requirements for the refurbishment, repair and/or rebuilding of AC motors.

5.6 Stakeholders for the Standard: Originally: Owners and operators of Petroleum and Chemical process facilities, and with this PAR: including other Process Industries (e.g. Pulp & Paper, Cement and additional non-IEEE associated owners/operators of AC Motors.

6.1.a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR prior to the PAR submittal to the IEEE-SA Standards Board? Yes **Presented Date:** 2006-09-25

If no, please explain:

6.1.b. Is the Sponsor aware of any copyright permissions needed for this project? Yes

If yes, please explain: National Electrical Manufacturers Association (NEMA) permission to be requested for MG 1 references and usages. This was previously received for earlier 1068 work. Electrical Apparatus Service Association (EASA) permission to be requested for AR-100 references and usages. EASA representatives are participating in the WG and have verbally assured cooperation.

6.1.c. Is the Sponsor aware of possible registration activity related to this project? No

If yes, please explain:

7.1 Are there other standards or projects with a similar scope? No

If yes, please explain:

Sponsor Organization:

Project/Standard Number:

Project/Standard Date: 0000-00-00

Project/Standard Title:

7.2 Is there potential for this standard (in part or in whole) to be adopted by another national, regional, or international organization? ? No

Technical Committee Name and Number:

Contact person:

Contact person Phone Number:

Contact person Email Address:

7.3 Will this project result in any health, safety, security, or environmental guidance that affects or applies to human health or safety? No

7.4 Additional Explanatory Notes:

1. addition of "AC" clarifies scope and identifies evolution of the document specific to AC machines (DC motors have been removed from the document) 2. addition of "Process Industries". See above responses. During development of these drafts, additional input has been received from other IEEE/IAS related groups (e.g. Pulp & Paper and Cement). The document is suited to more than just the Petroleum and Chemical industries, and with this change in title, now becomes applicable to virtually all owners/operators of AC motors.

8.1 Sponsor Information:

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

If no, please explain:

[Email This Letter](#)

12 May 2005

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

Re: P1068 - Standard for the Repair and Rewinding of Electric Motors in the Petroleum and Chemical Industry

Dear Richard:

I am pleased to inform you that on 10 May 2005 the IEEE-SA Standards Board approved the above referenced project until 31 December 2008. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1068.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:

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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 08 August 2005.

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, t.griffith@ieee.org

PAR FORM

PAR Status: Modified Revision PAR

PAR Approval Date: 2005-05-10

PAR Signature Page on File: Yes

1. Assigned Project Number: P1068

2. Sponsor Date of Request: 2005-03-01

3. Type of Document: Standard for

4. Title of Document:

Draft: Standard for the Repair and Rewinding of Electric Motors in the Petroleum and Chemical Industry

5. Life Cycle: Full-Use

6. Type of Project:

6a. Is this an update to an existing PAR? Yes

If Yes: Indicated PAR number/approval date: 1068 - 2002-03-21

If Yes: Is this Project in Ballot now? No

6b. The Project is a: Revision of Std 1068-1996

7. Working Group Information:

Name of Working Group: WG 1068: Standard for the Repair and Rewinding of Electric Motors

Approximate Number of Expected Working Group Members:15+

8. Contact information for Working Group Chair:

Name of Working Group Chair: John Travis Griffith

Telephone: 281-373-5969 **FAX:** 281-373-5969

Email: t.griffith@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:

Telephone: FAX:

Email:

10. Contact information for Sponsoring Society or Standards Coordinating Committee:
Name of Sponsoring Society and Committee: 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: September 2006

12. Projected Completion Date for Submittal to RevCom: December 2007

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

Statement of Why Extension Required: The previous chair died 2 1/2 years into project cycle without issuing first draft. The Working Group was re-constituted in September 2004.

Number of WG Members: 15

Number of Times the Working Group meets annually in person: 1

Number of times the Working Group meets annually via teleconference: 14-19

Times per year a draft is circulated via electronic means: 19

% Draft Stable: 65

Significant number of working revisions of the Draft: 3

Balloting History: None

First Extension Request: Yes

13. Scope of Proposed Project:

This document covers general recommendations for the repair of electric motors and includes guidelines for both the user and the repair facility. It is not intended to replace specific instructions contained in the manufacturer's instruction book or in any contractual agreement between a manufacturer and a purchaser of a given machine. This standard covers reconditioning, repair and rewind of horizontal and vertical induction motors and synchronous machines. It applies to all voltages 15 kV and less and all ratings above 0.75 kW (1 Hp). This standard applies only to the repair of motors and in those cases involving modifications to the basic design, care must be taken so as not to negatively affect the safety and reliability of the machine. Excluded from the scope of this standard are the following:

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- Any specific or additional requirements for hermetic motors, hydrogen-cooled machines, submersible motors, or Class 1E nuclear service motors.
- DC machines

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

No

14. Purpose of Proposed Project:

This standard is intended to be a basic or primary document that can be utilized and referenced by owners of motors that need repair as well as by owners and operators of establishments that offer motor repair services. It has been developed primarily for the needs of the Petroleum and Chemical Industry but can be adapted to other applications. The use of this standard by users and repair facilities is expected to result in higher-quality, more cost-effective, and timely repairs. It also provides a means of evaluating repairs and facilities.

15. Reason for the Proposed Project:

This use of this document has evolved from a guide, through a recommended practice and now requires the intent and strength of a standard. Recently developed practices and policies of the petroleum and chemical industries, and the corresponding procedures of repair facilities mandate document improvement. The stakeholders for the project are petroleum companies, chemical companies, pipelines, engineering companies, and repair facilities having requirements for the refurbishment, repair and/or rebuilding of AC motors.

16. Intellectual Property:

a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR? Yes 2004-09-12

b. Is the sponsor aware of copyright permissions needed for this project? Yes

National Electrical Manufacturers Association (NEMA) permission to be requested for MG 1 references and usages. This was previously received for earlier 1068 work. Electrical Apparatus Service Association (EASA) permission to be requested for AR-100 references and usages. EASA representatives are participating in the WG and have verbally assured cooperation.

c. Is the sponsor aware of trademarks that apply to this project? Yes

Previously used trademarks (referring to specifically brand named materials), will be re-worded to employ non-trademarked terms and descriptions.

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? No

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? No

If yes, please explain:

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)

Item #3 - The Working Group voted unanimously (vote at the "in person" meeting of September 2004) to change the type of document from a Recommended Practice to Standard.

Item #4 - The Working Group unanimously voted (vote during teleconference of February 2005) to add "Electrical" to the title to distinguish and detail the document for electrical motors as opposed to combustion type machines.

Item #13 - The Working Group unanimously decided to limit the scope of the document to focus only on alternating current (AC) machines. Thus DC machines are added to the "Excluded from the scope..." list at the end of the paragraph.