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04 March 2005

Richard H Hulett  
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Re: P1349 - Guide for Application of Electric Motors in Class I, Division 2 and Class I, Zone 2 Hazardous (Classified) Locations

Dear Richard:

I am pleased to inform you that on 04 March 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/1349.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](mailto:j.haasz@ieee.org) no later than 02 June 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](mailto:j.haasz@ieee.org).

Sincerely,

Jodi Haasz  
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# PAR FORM

**PAR Status:** Revision PAR  
**PAR Approval Date:** 2005-03-04  
**PAR Signature Page on File:** Yes

**1. Assigned Project Number:** P1349

**2. Sponsor Date of Request:** 2005-01-21

**3. Type of Document:** Guide for

**4. Title of Document:**

**Draft:** Guide for Application of Electric Motors in Class I, Division 2 and Class I, Zone 2 Hazardous (Classified) Locations

**5. Life Cycle:** Full-Use

**6. Type of Project:**

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

**6b. The Project is a:** Revision of Std 1349-2001

**7. Working Group Information:**

**Name of Working Group:** Motors in Hazardous Locations

**Approximate Number of Expected Working Group Members:**25

**8. Contact information for Working Group Chair:**

**Name of Working Group Chair:** Lorraine K Padden

**Telephone:** 281-579-6550 **FAX:** 281-579-6586

**Email:** PaddenEng@aol.com

**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:** February 2006**12. Projected Completion Date for Submittal to RevCom:** October 2006**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:**

Three-phase and single-phase AC synchronous and induction electric motors in fractional ratings 0.18 kW (1/4 hp) and larger are covered in this Guide. Primary emphasis is on the use of open or nonexplosionproof or nonflameproof enclosed motors in Class I, Division 2 and Class I, Zone 2 locations as covered in NFPA 70-2005. Precautions against excessive surface temperatures and sparking of rotor bars and enclosure joints are also covered. This document also provides guidance for maintaining the life-cycle integrity of motors in Class I, Division 2 and Class I, Zone 2 locations as covered in NFPA 70-2005. This Guide does not cover AC wound rotor motors and DC electric motors. Motors installed in locations other than Class I, Division 2 and Class I, Zone 2 as covered in NFPA 70-2005 are not covered in this Guide. This document is not a specification and is not intended to be used as a specification for purchasing motors. The voltage breaks in this document are 1000 V and less, and over 1000 V.

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

No

**14. Purpose of Proposed Project:**

Existing codes and standards contain cautionary notes for open or nonexplosionproof or nonflameproof enclosed motors in Class I, Division 2 and Class I, Zone 2 locations as covered in NFPA 70-2005. This Guide documents industry experience and established practices and provides guidance for applying motors in these locations.

**15. Reason for the Proposed Project:**

The existing Guide should be updated in general which will include up-to-date application practices, update reference standards, add Class I, Zone 2 to the Scope, expand the information on adjustable speed drive applications, include new motor data, and bring the entire document up to current standards. This information will mainly be used in the petrochemical industry by users, manufacturers, and designers for applying motors in hazardous locations.

**16. Intellectual Property:**

- a. **Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR?** Yes 2004-12-09
  - b. **Is the sponsor aware of copyright permissions needed for this project?** Yes  
NFPA excerpts are used in the Guide and copyright permissions will need to be updated for the revised Guide.
  - 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?** 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)**

The Scope of the PAR for the revised Guide sets size limits, adds Class I, Zone 2 to the Scope, and specifically references NFPA 70-2005, National Electrical Code. The term "general-purpose" was replaced with the more specific terms used in NFPA 70-2005 for the same type of motors, more specifically referred to as "open or nonexplosionproof " in Division 2 {NEC Section 501.8(B)} and "nonflameproof " in Zone 2 locations {NEC Section 505.20(C) Exception No. 4}. It does not change the Scope or Purpose, just the preferred terms. "This guide is not a specification and is not intended to be used as a specification for purchasing motors." was moved to the Scope section because it is more of a Scope type statement than Purpose.