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02 November 2006

Innocent Kamwa
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Re: P1415 - Guide for Induction Machinery Maintenance Testing and Failure Analysis

Dear Innocent:

I am pleased to inform you that on 02 November 2006 the IEEE-SA Standards Board approved the above referenced project until 31 December 2006. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1415.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 31 January 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
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Standards Activities
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PAR Request Date: 11 September 2006**PAR Approval Date:** 02 November 2006**PAR Signature Page on File:** Yes**Type of PAR:** Modification to Approved PAR**Status:** Modification to a Previously Approved PAR P1415, 16 March 1995**Root Project:** IEEE Std 1415-0**1.1 Project No.:** **P1415****1.2 Type of Document:** Guide**1.3 Life Cycle:** Full-Use**1.4 Is this document in ballot now?** Yes

2.1 Title	Old Title
Guide for Induction Machinery Maintenance Testing and Failure Analysis	Guide for Induction Machinery Maintenance Testing and Failure Analysis

2.1 Amendment/Corrigenda Title**3.1 Working Group Name** [Working Group for Induction Machinery Maintenance Testing and Failure Analysis](#)

Working Group Chair	Wall, Lawrence A Phone: 205-992-6354 Email: lawall@southernco.com
Working Group Vice Chair	

3.2 Sponsor [IEEE Power Engineering Society Electric Machinery \(PE/EM\)](#)

Sponsor Chair	Kerszenbaum, Isidoro Phone: +1 949 368 6217 Email: kerszei@sce.songs.com
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Name of Standards Liaison Representative (if applicable)	Kamwa, Innocent Phone: 450-652-8122 Email: kamwa.innocent@ireq.ca
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3.3 Joint Sponsor**4.1 Type of Ballot:** Individual**4.2 Expected Date of Submission for Initial Sponsor Ballot:** February 2006**4.3 Projected Completion Date for Submittal to RevCom:** September 2006**5.1 Approximate number of people expected to work on this project:** 20

5.2 Scope: This Guide provides maintenance testing and failure analysis guidance for formwound, squirrel cage, induction machinery rated up to 15 kV. The Guide addresses the following machine systems: Stator (Winding and Core) Rotor (Winding and Core) Vibration and Noise Bearings and Shafts Structure, Frame Ventilation Accessories	Old Scope: Document to provide maintenance testing and failure analysis for formwound, squirrel cage, induction machines rated up to 15 kV. The Guide shall address the following systems: stator (winding and core), rotor (winding and core), vibration and noise, bearings and shaft, structure, ventilation, accessories.
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5.3 Is the completion of this document contingent upon the completion of another document? No

5.4 Purpose: This document is intended for the following purposes: To provide guidance concerning the appropriateness of various maintenance tests and interpreting the results of those tests with respect to failure analysis and to routine predictive maintenance activities To provide a methodology by which the most probable cause of any particular machine failure may be determined To encourage the establishment of routine and uniform data collection so valuable facts of the failure are not destroyed To facilitate cooperative efforts by users and manufacturers during failure analysis

Old Purpose: Analysis of induction machine failures are not covered by the available standards. The document will provide guidance into performing failure analysis. As part of the failure analysis, certain maintenance tests are suggested. The working group will provide guidance into the appropriateness of the maintenance tests and into the interpreting of the test results. The guidance concerning maintenance testing will be, in general, appropriate to normal maintenance testing (predictive maintenance testing).

5.5 Need for the Project: The Guide provides the the following needs not found in a single document elsewhere: Aids the thought processes and procedures necessary to determine root cause for failures Provides guidance on maintenance testing Provides guidance concerning the appropriateness of various maintenance tests and in interpreting the results of those tests with respect to failure analysis and to routine predictive maintenance activities. Provides a methodology by which the most probable cause of any particular machine failure may be determined. Encourages the establishment of routine and uniform data collection so that valuable facts concerning the failure are not destroyed. Encourages cooperative efforts between users and manufacturers during failure analysis.

5.6 Stakeholders for the Standard: Producers (manufacturers), Users (owners) and individuals with General Interest in induction machinery are interested in and will benefit from this Guide.

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? No **Presented Date:** 0000-00-00

If no, please explain: Initial PAR in 1995, however no patent issues or concerns were raised during Guide development, review or ballot.

6.1.b. Is the Sponsor aware of any copyright permissions needed for this project? No

If yes, please explain:

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? ? Do not know at this time

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:

The Scope and Purpose is the same as included in balloted document. Only change is to change from Trial Use to Full Use. Initial Ballot was in Feb 2005.

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: