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16 March 2006

Shayne Wright
POWER Engineers, Inc.
15621 Blue Ash, Suite 110
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shayne.wright@ieee.org

Re: P1143 - Guide on Shielding Practice for Low Voltage Cables

Dear Shayne:

I am pleased to inform you that on 16 March 2006 the IEEE-SA Standards Board approved the above referenced project until 31 December 2010. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1143.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 14 June 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
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Standards Activities
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PAR FORM

PAR Status: Revision PAR
PAR Approval Date: 16 March 2006
PAR Signature Page on File: Yes

1. Assigned Project Number: P1143

2. Sponsor Date of Request: 2005-11-02

3. Type of Document: Guide for

4. Title of Document:

Draft: Guide on Shielding Practice for Low Voltage Cables

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 1143-1994

7. Working Group Information:

Name of Working Group: Working Group for Shielding Practice for Low Voltage Cables (D11W)

Approximate Number of Expected Working Group Members:13

8. Contact information for Working Group Chair:

Name of Working Group Chair: Kenneth E Bow

Telephone: +1 989 695 4659 **FAX:**

Email: kblecnslt@consultant.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: Michael G Bayer

Telephone: 409-238-7911 **FAX:** 409-238-9099

Email: mgbayer@dow.com

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

Name of Sponsoring Society and Committee: IEEE Power Engineering Society Insulated Conductors

Name of Sponsoring Committee Chair: James Fitzgerald

Telephone: 201-825-0300 **FAX:** 201-327-0276

Email: fitzgerald@okonite.com

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

Telephone: +1 281 248 4310 **FAX:** +1 281 248 4396

Email: shayne.wright@ieee.org

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: November 2007

12. Projected Completion Date for Submittal to RevCom: November 2008

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 function of this guide on shielding practice for low voltage cables is to inform and familiarize the reader with shielding practice. Overviews of shielding practice, systems and test methods are provided. These tests may not be standardized; however, they are included to inform the reader and provide an overview as to what has been done to characterize shielding. This guide provides the following: a review of shielding techniques to control electrostatic and electromagnetic interference for varying types of low voltage cable used for power, control and instrumentation services, including signal and communications cable; an overview of the functional characteristics of various types of shielding; suggested tests or techniques for measuring shielding effectiveness; recommendations on shielding practices, including suggestions on terminating and grounding methods.

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

14. Purpose of Proposed Project:

The main purpose of this guide is to show how shielding can minimize the effects of electrostatic and electromagnetic interference. A secondary purpose is to provide recommendations on shielding practice for various applications including suggestions on terminating and grounding methods.

15. Reason for the Proposed Project:

This project will provide a revision to the Guide on Shielding Practice for Low Voltage Cables. The guide will be helpful for users of low voltage cable to understand how shielding works, to choose an appropriate shielding system to address the type of interference being encountered and to be able to be familiar with the test protocols to measure shielding effectiveness. The revision will focus on shielding techniques and defer the discussion of theory and sources of interference to other appropriate IEEE documents by reference. The document will be of greatest use to cable users for control systems in industrial plants, generating stations, and substations. The experts contributing to the document will be cable manufacturers and material suppliers. The document will be useful to consultants and engineers in engineering firms who design and build control systems for various plants and facilities.

16. Intellectual Property:

- a. **Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR?** Yes 2005-11-01
- 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? 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 # 13: Scope - The scope in the current standard is acceptable except for 2 lines, which are being deleted: "An enumeration of sources of electrostatic and electromagnetic interference" and "Criteria for defining the most favorable techniques for combating interference." These items are better covered by reference to other standards such as IEEE1100.

A main reason for the revision is to eliminate portions of the 1143 guide that are better covered by other IEEE standards.

Item #14: With the elimination of the 2 items from the scope, the purpose also changes. The portions "and provide background on the need for shielding" and "Alternative approaches will be given to achieve these purposes" are not applicable. The reason is the same, i.e., these items are better covered by other IEEE documents.