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09 December 2005

Karl N Mortensen
Great River Energy
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kmortensen@grenergy.com

Re: PC135.30 - Ground Rod Electrode, Clamp & Coupling Specification

Dear Karl:

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/C135-30.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
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PAR FORM

PAR Status: Revision PAR

PAR Approval Date: 07 December 2005

PAR Signature Page on File: Yes

1. Assigned Project Number: PC135.30

2. Sponsor Date of Request: 2005-07-05

3. Type of Document: Standard for

4. Title of Document:

Draft: Ground Rod Electrode, Clamp & Coupling Specification

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 C135.30-1988

7. Working Group Information:

Name of Working Group: Overhead Line Structural and Materials & Hardware Working Group

Approximate Number of Expected Working Group Members:7

8. Contact information for Working Group Chair:

Name of Working Group Chair: Robert C Peters

Telephone: 610-775-2003 **FAX:** 610-775-7044

Email: Rcpenginrg@cs.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: Roger J Montambo

Telephone: 704-921-9467 **FAX:** 704-455-5215

Email: RMontambo@galvanelectrical.com

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

Name of Sponsoring Society and Committee: IEEE Power Engineering Society Transmission and Distribution

Name of Sponsoring Committee Chair: W. Mack Grady

Telephone: 512-471-5231 **FAX:** 512-471-5532

Email: mack@ieee.org

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

Telephone: 763-241-2365 **FAX:** 763-241-6165

Email: kmortensen@grenergy.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:** July 2006**12. Projected Completion Date for Submittal to RevCom:** September 2007**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 requirements for materials, test, performance, and manufacture of ground rod electrodes, and threaded & threadless ground rod couplings. It applies to ground rod electrodes and ground rod couplings of copper or steel alloyed materials. Specifically included are ground rod electrodes of copper-coated steel, hot-dip galvanized steel and solid stainless steel for grounding applications.

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

No

14. Purpose of Proposed Project:

This standard revises and expands requirements previously described in ANSI C135.30-1988, "ANSI American National Standard for Zinc-Coated Ferrous Ground Rods for Overhead or Underground Line Construction." The ANSI standard covered only zinc-coated (galvanized) ferrous ground rods. In addition, this new standard incorporates requirements from ANSI Approved/NEMA Standard GR-1-2001, "Grounding Rod Electrodes and Grounding Rod Electrode Couplings." The information has been updated to reflect current nationally accepted requirements in compliance with the 2002 publication of the NESC. It is intended that ground rod electrodes and ground rod couplings conforming to this standard will also conform to the requirements of the NESC (ANSI/IEEE C2-2002, National Electrical Safety Code) and the NEC (ANSI/NFPA 70-2005, National Electrical Code, thus becoming truly a national standard.

15. Reason for the Proposed Project:

The C135.30 document expired in 1993 and since that time there has been no ground rod standard to manufacture and/or monitor technical acceptance from an end-user standpoint. Utilities specifications are often incomplete, and inconsistent with each other. Reference to common minimum accepted criteria will assure that manufacturers and users alike will have assurance that the product they are receiving will conform to at least the most critical issues important to a ground rod installation from a reliability standpoint. The stakeholders for the project are the electric utility industry and the communications market.

16. Intellectual Property:

- a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR?** Yes 2005-07-05
- b. Is the sponsor aware of copyright permissions needed for this project?** Yes
IEEE will need permission from NEMA to incorporate the GR-1 specification into the C135.30 document. However, from conversations with NEMA personnel, they have indicated that this permission has been granted in the past, and a precedent has been established.
- 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? Yes

Not within IEEE. However, NEMA GR-1 does have a similar scope. The ANSI canvas approval process included candidates from the IEEE/NESC user base, and voted favorably during the NEMA ANSI canvas at that time.

Similar Scope Project Information:

SimSP: NEMA SimProjNo: GR-1 SimProjD: 10-SEPT-2001 SimTitle: Ground rod electrodes, clamps and couplings.

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 C135.30 document had been an ANSI standard under ASC C135, was last approved on July 28, 1988 and when transferred to IEEE in 1993 its 5 year validity expired. Since that time there has been no valid national specification for ground rod electrodes. Approval and development of a national specification for these products will encourage a minimum acceptable standard for which utilities to use, knowing that specification compliance will assure compliance with the NESC.