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12 August 2004

Miriam Sanders
Pulsar Technologies, Inc.
4050 NW 121st Ave.
Coral Springs, FL 33065
miriam.sanders@pulsartech.com

Re: P487 - Recommended Practice for the Protection of Wire-Line Communication Facilities Serving Electric Supply Locations

Dear Miriam:

I am pleased to inform you that on 12 August 2004 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/487.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 9 November 2004.

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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International Stds Programs and Governance
Standards Activities
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PAR FORM

PAR Status: Revision PAR
PAR Approval Date: 2004-08-12
PAR Signature Page on File: Yes

1. Assigned Project Number: 487

2. Sponsor Date of Request: 2004-06-29

3. Type of Document: Recommended Practice for

4. Title of Document:

Draft: Recommended Practice for the Protection of Wire-Line Communication Facilities Serving Electric Supply 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 487-2000

7. Working Group Information:

Name of Working Group: Wireline Subcommittee (SC6)

Approximate Number of Expected Working Group Members:10

8. Contact information for Working Group Chair:

Name of Working Group Chair: Percy E Pool

Telephone: 972-718-7678 **FAX:** 972-719-7634

Email: pepool@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: Power Engineering Society Power System Communications

Name of Sponsoring Committee Chair: John E Newbury

Telephone: 44-61-956-6857 **FAX:** 44-61-956-6811

Email: j.e.newbury@open.ac.uk

Name of Liaison Rep. (if different from the Sponsor Chair): Miriam P Sanders

Telephone: 954-344-9822 x 215 **FAX:** 954-340-6676

Email: miriam.sanders@pulsartech.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: 2007-01-07

12. Fill in Projected Completion Date for Submittal to RevCom: 2008-01-01

Explanation for Modified PAR that completion date is being extended past the original four-year life of the PAR:

13. Scope of Proposed Project:

This recommended practice presents engineering design practices for special high-voltage protection systems intended to protect wire-line telecommunication facilities serving electric supply locations. The following topics are included in this document: a) A description of the electric supply locations environment, i.e., ground potential rise (GPR), induced voltages, lightning, and switching transients; b) A discussion of special high-voltage protection devices; c) Definitions of service types and service performance objectives for electric supply locations telecommunication services; d) Special protection theory and philosophy; e) Special protection system design guidelines; f) Personnel safety considerations; g) Grounding; h) Cables with metallic members. Other telecommunication alternatives such as radio and optical fiber systems are excluded from this document.

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

14. Purpose of Proposed Project:

This recommended practice presents workable methods for the protection of wire-line telecommunication facilities serving electric supply locations. In general, special protective measures, handling procedures, and administrative procedures are necessary to provide for personnel safety, protection against damage to telecommunication facilities and terminal equipment, and reliability of service. Disturbances may arise from a number of causes, including the following: a) Ground (earth) potential rise; b) Longitudinal induction into the serving telecommunication facilities; c) Electrical contact between power and telecommunication conductors; d) Lightning surges and switching transients induced into the telecommunication system. Divergent and differing opinions exist between and within the various administrations and users regarding the merits of any one protection method, voltage limits, and equipment design characteristics. This standard is not intended to supplant specific or general instructions contained in the practices of any utility, or in any agreement between a telecommunication and a power utility. Readers of this standard should evaluate all alternative procedures, methods, voltage limits, and equipment characteristics for their own use. Different administrations and users will use either peak or rms for specifying voltage levels. In the case of leased facilities, mutually agreeable methods for the design and installation of protective equipment that may be owned by either party are recommended.

14a. Reason for the standardization project:

References to outdated technologies or products, such as carbon protectors, will be removed. Also, additional information on towers and metallic cables within the ZOI (Zone of Influence) will be added. Other minor changes to enhance the usability of the document may also be done. The stakeholders for P487 would be the telecommunication group(s) of the power utilities.

15. Intellectual Property:

Has the sponsor reviewed the IEEE patent policy with the working group? Yes

Is the sponsor aware of copyrights relevant to this project? No

Is the sponsor aware of trademarks relevant to this project? No

Is the sponsor aware of possible registration of objects or numbers due to this project? No

16. Are there other documents or projects with a similar scope? No

Similar Scope Project Information:

17. 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, please answer the following questions:

Which International Organization/Committee?

International Contact

Information?

18. If the project will result in any health, safety, or environmental guidance that affects or applies to human health or safety, please explain in five sentences or less.

In general, special protective measures, handling procedures, and administrative procedures are necessary to provide for personnel safety, protection against damage to telecommunication facilities and terminal equipment, and reliability of service.

19. Additional Explanatory Notes: (Item Number and Explanation)