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10/10/2007 10:02 PM

To wille.mcbridepe@gci.net

cc kimeastwood@ieee.org, wwilliams@tycothermal.com, Patricia
Gordon/STDS/STAFF/US/IEEE,

bcc

Subject Approval of Project - P515.1

03 October 2007

William E McBride
Arco Alaska
900 East Benson Boulevard, #335
Anchorage, AK 99508
wille.mcbridepe@gci.net

Re: P515.1 - Standard for the Testing, Design, Installation, and Maintenance of Electrical Resistance Heat Tracing for Commercial Applications

Dear William:

I am pleased to inform you that on 27 September 2007 the IEEE-SA Standards Board approved the above referenced project until 31 December 2011.

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"

Rosters can be submitted in any format to the NesCom Administrator (nescom-admin@ieee.org). Please forward this list to the NesCom Administrator via e-mail at nescom-admin@ieee.org no later than 26 December 2007.

Or, for your convenience, you can manage your standards development roster in myProject. Instructions are as follows:

- Go to myProject - <https://development.standards.ieee.org/my-site>
- Login using your IEEE Web Account username and password.
- Once logged into myProject, go to "Manage Committees"
- Drill down to the project by clicking the (+) on the left to expand each level. The actual project will be highlighted in yellow
- Click "Manage Committees" for that project. A list of individuals enrolled in the Committee/Project will appear. On this screen you can assign whether a person is a Participant, a Non-Voting Member or a Voting Member of the project group. You may also view contact information for that individual.

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 questions, please contact the NesCom Administrator via e-mail at nescom-admin@ieee.org or via telephone at +1 732 562 3806.

Sincerely,

NesCom Admin
Standards Activities
Email: nescom-admin@ieee.org

PAR Request Date: 27 August 2007**PAR Approval Date:** 27 September 2007**PAR Signature Page on File:** Yes**Type of PAR:** Revision to IEEE Standard**Status:** Revision to an Existing IEEE Std 515.1-2005**Root Project:****1.1 Project No.:** **515.1****1.2 Type of Document:** Standard**1.3 Life Cycle:** Full-Use**1.4 Is this document in ballot now?** No**2.1 Title**

Standard for the Testing, Design, Installation, and Maintenance of Electrical Resistance Heat Tracing for Commercial Applications

3.1 Working Group Name**Working Group Chair****Working Group Vice Chair****3.2 Sponsor**[IEEE Industry Applications Society Petroleum & Chemical Industry \(IAS/PCI\)](#)**Sponsor Chair**[Eastwood, Kimberly](#)

Phone: 512 396 5880

Email: kimeastwood@ieee.org

Name of Standards Liaison Representative (if applicable)[McBride, William E](#)

Phone: 907-265-6496

Email: wille.mcbridepe@gci.net

3.3 Joint Sponsor**4.1 Type of Ballot:** Individual**4.2 Expected Date of Submission for Initial Sponsor Ballot:** August 2008**4.3 Projected Completion Date for Submittal to RevCom:** August 2009**5.1 Approximate number of people expected to work on this project:** 25

5.2 Scope: This standard provides test criteria to determine the suitability of heating devices and fittings that are used for commercial applications. The standard also includes detailed recommendations for the design, installation, and maintenance of electrical resistance heat tracing in these applications. Commercial applications include installations both inside and outside commercial business buildings, such as office buildings, hospitals, and airports. Typical applications include freeze protection of water pipes; temperature maintenance of hot water piping and other lines and tubing; protection of sprinkler systems; roof, gutter, and pavement deicing; and other applications as shown in Table 1 in 4.1. Commercial applications involving hazardous (classified) locations shall also meet the relevant hazardous location requirements in IEEE Std 515 as well as any other applicable codes and standards.

Old Scope: This standard provides test criteria to determine the suitability of heating devices and fittings that are used for commercial applications. The standard also includes detailed recommendations for the design, installation, and maintenance of electrical resistance heat tracing in these applications. Commercial applications include installations both inside and outside commercial business buildings, such as office buildings, hospitals, and airports. Typical applications include freeze protection of water pipes; temperature maintenance of hot water piping and other lines and tubing; protection of sprinkler systems; roof, gutter, and pavement deicing; and other applications as shown in Table 1 in 4.1. Commercial applications involving hazardous (classified) locations shall also meet the relevant hazardous location requirements in IEEE Std 515 as well as any other applicable codes and standards.

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

5.4 Purpose: The provisions of this standard should ensure that adequate material temperatures are maintained and that electrical, thermal, mechanical, and water-exclusion durability are provided to the heat tracing system. In addition, it should provide that under normal use, the products will exhibit long-term performance reliability without damage to the user or surroundings. This standard is a supplement to those provisions outlined in National Electrical Code® (NEC®) (NFPA 70), Articles 426 and 427.

Old Purpose: The provisions of this standard should ensure that adequate material temperatures are maintained and that electrical, thermal, mechanical, and water-exclusion durability are provided to the heat tracing system. In addition, it should provide that under normal use, the products will exhibit long-term performance reliability without damage to the user or surroundings. This standard is a supplement to those provisions outlined in National Electrical Code® (NEC®) (NFPA 70), Articles 426 and 427.

5.5 Need for the Project: 1. To consider and implement additional testing and design requirements for the use of heat tracing in fire protection branch sprinkler lines under sections 4.6 and 6.2 of the standard. 2. To make editorial corrections. 3. To make a technical correction to a footnote in section 4.7.2 4. To consider reinstating a sample log sheet. 5. To consider other modifications or inclusions in an effort to harmonize with other relevant international standards.

5.6 Stakeholders for the Standard: Manufacturers, certification agencies, users.

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? Yes **Presented Date:** 2007-05-22

If no, please explain:

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? Yes

If yes, please explain:

There are other standards with similar scopes: IEC 62395-1 and -2. These standards were developed after IEEE 515.1 which was used as the basis for many of the requirements in the IEC documents.

Sponsor Organization: IEC

Project/Standard Number: 62395-1 and -2

Project/Standard Date: 2006-08-20

Project/Standard Title: Electrical resistance trace heating systems for industrial and commercial applications - Part 1: General and testing requirements

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? Yes

These systems provide protection against freezing of liquids in pipes and protection against ice formation on a variety of surfaces such as driveways and walkways.

7.4 Additional Explanatory Notes:

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: