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06 December 2006

Jim Dietz  
LTK Engineering Services  
100 W. Butler Avenue  
Ambler, PA 19002  
jdietz@ieee.org

Re: P1474.3 - Communications-Based Train Control (CBTC) System Design and Functional Allocations

Dear Jim:

I am pleased to inform you that on 06 December 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/1474-3.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](mailto:s.hampton@ieee.org) no later than 06 March 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](mailto:s.hampton@ieee.org).

Sincerely,

Sherry Hampton  
Administrator, Governance  
Standards Activities  
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CC: alan.rumsey@parsons.com

**PAR Request Date:** 15 October 2006**PAR Approval Date:** 06 December 2006**PAR Signature Page on File:** Yes**Type of PAR:** New IEEE Standard**Status:** PAR for a New IEEE Standard**Root Project:****1.1 Project No.:** **P1474.3****1.2 Type of Document:** Recommended Practice**1.3 Life Cycle:** Full-Use**1.4 Is this document in ballot now?** No**2.1 Title**

Communications-Based Train Control (CBTC) System Design and Functional Allocations

**2.1 Amendment/Corrigenda Title****3.1 Working Group Name** [Communications Based Train Control Working Group](#)**Working Group Chair**  
[Rumsey, Alan F](#)  
Phone: 212-266-8527  
Email: alan.rumsey@parsons.com**Working Group Vice Chair****3.2 Sponsor** [IEEE Vehicular Technology Society Rail Transit \(VT/RT\)](#)**Sponsor Chair**  
[Dietz, Jim](#)  
Phone: 215-641-8876  
Email: jdietz@ieee.org**Name of Standards Liaison Representative (if applicable)****3.3 Joint Sponsor****4.1 Type of Ballot:** Individual**4.2 Expected Date of Submission for Initial Sponsor Ballot:** May 2007**4.3 Projected Completion Date for Submittal to RevCom:** October 2007**5.1 Approximate number of people expected to work on this project:** 25**5.2 Scope:** This recommended practice establishes a preferred system design and functional allocation for CBTC systems.**5.3 Is the completion of this document contingent upon the completion of another document?** No**5.4 Purpose:** The purpose of this recommended practice is to define a preferred CBTC system design/system architecture to achieve the CBTC performance and functional requirements of IEEE Std. 1474.1-2004, and to allocate functions to the major CBTC subsystems.**5.5 Need for the Project:** IEEE Std. 1474.1-2004 established performance and functional requirements for Communications Based Train Control (CBTC) systems. While there could be many possible system designs to achieve these performance and functional requirements, the current state-of-the-art and industry trends reflect that in many areas there is a preferred approach to allocating the functional requirements to the individual CBTC subsystems. This IEEE Recommended Practice for Communications-Based Train Control (CBTC) System Design and Functional Allocations will documents these preferred approaches as current best industry practice.

**5.6 Stakeholders for the Standard:** Transit agencies, train control equipment suppliers, and other interested parties.

**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:** 2006-04-19

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?** 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?** Yes

The subject matter for this proposed recommended practice is a communications-based train control system which is responsible for the control of train movements in a safe and efficient manner. However, this recommended practice simply builds on a previously published IEEE Std, 1474.1-2004.

**7.4 Additional Explanatory Notes:**

The proposed approach to be adopted in this Recommended Practice is to build on IEEE Std. 1474.1 by decomposing each identified function to a level where each sub-function can be allocated to one of the CBTC subsystems.

**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: