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08 June 2006

Thomas E Linnenbrink  
Q-Dot Inc.  
1069 Elkton Drive  
Colorado Springs CO 80907  
linnenbrink@qdot.com

Re: P1696 - Standard for Terminology and Test Methods for Circuit Probes

Dear Thomas:

I am pleased to inform you that on 08 June 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/1696.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 September 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 +1 732 562 6003 or by email at [s.hampton@ieee.org](mailto:s.hampton@ieee.org).

Sincerely,

Sherry Hampton  
Administrator, Governance  
Standards Activities  
Phone +1 732 562 6003  
FAX +1 732 875 0695  
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CC: [nicholas.paulter@nist.gov](mailto:nicholas.paulter@nist.gov)

**PAR Request Date:** 10 April 2006

**PAR Approval Date:** 08 June 2006

**PAR Signature Page on File:** Yes

**Type of Project:** New IEEE Standard

**Status:** PAR for a New IEEE Standard

**Root Project/PAR:**

**1.1 Project No.:** **P1696**

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Trial-Use

**1.4 Is this document in ballot now?** No

## 2.1 Title

Standard for Terminology and Test Methods for Circuit Probes

## 2.1 Amendment/Corrigenda Title

**3.1 Working Group Name** [Subcommittee on Probe Standards](#)

**Working Group Chair** [Paulter Nick](#)  
Phone: 301-975-2405  
Email: nicholas.paulter@nist.gov

**Working Group Vice Chair**

**3.2 Sponsor** [IEEE Instrumentation and Measurement Society TC10-Waveform Measurement and Analysis \(IM/WM&A\)](#)

**Sponsor Chair** [Linnenbrink E Thomas](#)  
Phone: 719-590-1112x125  
Email: linnenbrink@qdot.com

**3.3 Joint Sponsor**

**4.1 Type of Ballot:** Individual

**4.2 Expected Date of Submission for Initial Sponsor Ballot:** 2009-02-00

**4.3 Projected Completion Date for Submittal to RevCom:** 2010-02-00

**5.1 Approximate number of people expected to work on this project:** 20

**5.2 Scope:** This standard provides test method(s) and describes transfer (artifact) standards for characterizing electrical circuit probes and probes systems. The systems may include waveform acquisition hardware and software and signal/waveform analysis software. The probe will include the mechanism by which the circuit is contacted. This method and standard will be applicable to all individual probes having one signal conductor and one ground conductor or two signal conductors, and having an input impedance greater than the impedance of the circuit under test.

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

**5.4 Purpose:** There is currently no defined, industry-accepted method for characterizing the performance of electrical circuit probes. Each vendor has its own proprietary methods for characterization, leaving probe customers and users without a valid means of comparing probe performance and/or understanding the circuit-loading effect of the probe. This method or these methods developed will provide an industry-accepted, unbiased means for characterizing probe performance.

**5.5 Need for the Project:** There is a market need based on the plethora of probe products used by industry for circuit characterization, design verification and debugging. This document will benefit probe manufacturers by providing them with a means of comparing their products to those from another manufacturer and, consequently, a basis from which to improve their products. The probe user will benefit from continued improvements in probes, from knowing how to characterize and select probes properly, and in understanding how the probe affects measured waveforms.

**5.6 Stakeholders for the Standard:** The stakeholders for this standard are the aerospace industry, the computing industry, data communications industry, telecommunications industry, and test and measurement instrument manufacturers

**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:** 2006-01-09

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? No**

**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: