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**Submitter Email:** hargil@msn.com  
**Type of Project:** New IEEE Standard  
**PAR Request Date:** 05-Feb-2010  
**PAR Approval Date:** 25-Mar-2010  
**PAR Expiration Date:** 31-Dec-2014  
**Status:** PAR for a New IEEE Standard  
**Project Record:** C37.241

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**1.1 Project Number:** PC37.241  
**1.2 Type of Document:** Guide  
**1.3 Life Cycle:** Full Use

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**2.1 Title:** Guide for Application of Optical Instrument Transformers for Protective Relaying

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**3.1 Working Group:** Guide for the application of optical instrument transformers for protective relaying (PE/PSR/I11-WG)

**Contact Information for Working Group Chair**

**Name:** Harley Gilleland  
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**Contact Information for Working Group Vice-Chair**

None

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**3.2 Sponsoring Society and Committee:** IEEE Power & Energy Society/Power System Relaying (PE/PSR)

**Contact Information for Sponsor Chair**

**Name:** Miriam Sanders  
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**4.1 Type of Ballot:** Individual

**4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot:** 05/2013

**4.3 Projected Completion Date for Submittal to RevCom:** 10/2013

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**5.1 Approximate number of people expected to be actively involved in the development of this project:** 15

**5.2 Scope:** This document provides guidance on the use of optical voltage and current sensor systems for protective relaying - including selection, installation, testing, and operations.

**5.3 Is the completion of this standard dependent upon the completion of another standard?:** No

**5.4 Purpose:** To provide guidance in the application and selection of optical instrument transformers for protective relaying.

**5.5 Need for the Project:** Optical sensor systems are a proven technology for both current and voltage measurement applications. However, there are no available standards or guides on the application or selection of this technology for protective relaying. Protective relaying applications have specific and unique requirements, as compared to metering, power quality monitoring, and other applications. Optical instrument transformer systems also have unique characteristics such as electronic signal processing, digital filtering, time delays, lack of iron-core (and the associated saturation) that can have an impact (positive or negative) on protective applications. This guide will address some of the key issues that have to be considered when using an optical instrument transformer for protective relaying applications.

**5.6 Stakeholders for the Standard:** Electric Power Industry

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**Intellectual Property**

**6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?:** No

**6.1.b. Is the Sponsor aware of possible registration activity related to this project?:** No

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**7.1 Are there other standards or projects with a similar scope?:** No

**7.2 International Activities**

**a. Adoption**

**Is there potential for this standard (in part or in whole) to be adopted by another national, regional or international organization?:** No

**b. Joint Development**

**Is it the intent to develop this document jointly with another organization?:** No

**c. Harmonization**

**Are you aware of another organization that may be interested in portions of this document in their standardization development efforts?:** No

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**8.1 Additional Explanatory Notes (Item Number and Explanation):** No additional comments will be supplied