

# P741

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**Submitter Email:** [mdbowman@ieee.org](mailto:mdbowman@ieee.org)

**Type of Project:** Revision to IEEE Standard 741-2007

**PAR Request Date:** 13-Nov-2014

**PAR Approval Date:** 26-Mar-2015

**PAR Expiration Date:** 31-Dec-2019

**Status:** PAR for a Revision to an existing IEEE Standard

**Root Project:** 741-2007

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**1.1 Project Number:** P741

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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**2.1 Title:** Standard Criteria for the Protection of Class 1E Power Systems and Equipment in Nuclear Power Generating Stations

**Changes in title:** ~~IEEE~~ Standard Criteria for the Protection of Class 1E Power Systems and Equipment in Nuclear Power Generating Stations

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**3.1 Working Group:** IEEE 741 Working Group (PE/NPE/WG\_4.7)

**Contact Information for Working Group Chair**

**Name:** DAVID GLADEY

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**Contact Information for Working Group Vice-Chair**

None

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**3.2 Sponsoring Society and Committee:** IEEE Power and Energy Society/Nuclear Power Engineering (PE/NPE)

**Contact Information for Sponsor Chair**

**Name:** Stephen Fleger

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**Contact Information for Standards Representative**

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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:** 12/2017

**4.3 Projected Completion Date for Submittal to RevCom:** 10/2018

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**5.1 Approximate number of people expected to be actively involved in the development of this project:** 25

**5.2 Scope:** This standard provides the principal design criteria, design features, and testing requirements for the protection of Class 1E power systems and equipment supplied from those systems. It identifies special protection features that are needed where the requirements of nuclear power generating stations necessitate supplementing accepted industry practices.

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

**5.4 Purpose:** This document will not include a purpose clause.

**5.5 Need for the Project:** Due to recent industry issues with bus voltage monitoring design (degraded voltage) and with the effects of open-phase faults, the working group needs to consider incorporation of additional design features to protect Class 1E systems. The intent of the project is to ballot the existing standard in order to gain additional input from the industry on the state of the industry in this area.

**5.6 Stakeholders for the Standard:** Nuclear industry utilities, engineering design firms, regulators, and consultants.

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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?:** Yes

**If Yes please explain:** P742 covers principal design criteria, design features, and testing criteria for the Class 1E bus voltage monitoring schemes in Nuclear Power Generating Stations. The intent of the working group is to align Std 741 with project P742 and ultimately revise Std 741 to harmonize with this new standard.

**and answer the following**

**Sponsor Organization:** NPEC

**Project/Standard Number:** P742

**Project/Standard Date:** 06-Mar-2013

**Project/Standard Title:** Standard for Bus Voltage Monitoring of the Class 1E Power Systems in Nuclear Power Generating Stations (NPGS)

**7.2 Joint Development**

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

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**8.1 Additional Explanatory Notes (Item Number and Explanation):** 2.1 Class 1E is the classification of the electric equipment and systems in a nuclear power generating station that are essential to nuclear safety (defined in IEEE Stds 308, 603, and others).