

# P384

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**Type of Project:** Revision to IEEE Standard 384-2008

**PAR Request Date:** 28-Jan-2015

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

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

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

**Root Project:** 384-2008

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**1.1 Project Number:** P384

**1.2 Type of Document:** Standard

**1.3 Life Cycle:** Full Use

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**2.1 Title:** Standard Criteria for Independence of Class 1E Equipment and Circuits

**Changes in title:** ~~IEEE~~ Standard Criteria for Independence of Class 1E Equipment and Circuits

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**3.1 Working Group:** Working Group for Independence Criteria and Design of Control Boards, Panels, and Racks (PE/NPE/WG\_6.5)

**Contact Information for Working Group Chair**

**Name:** Paul Yanosy

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**Phone:** 724-316-5946

**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

**Email Address:** [stephen.fleger@nrc.gov](mailto:stephen.fleger@nrc.gov)

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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:** 12/2016

**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:** 10

**5.2 Scope:** This standard describes the independence requirements of the circuits and equipment comprising or associated with Class 1E systems. It sets forth criteria for the independence that can be achieved by physical separation and electrical isolation of circuits and equipment that are redundant, but does not address the determination of what is to be considered redundant.

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

**5.4 Purpose:** This standard establishes the criteria for implementation of the independence requirements of IEEE Std 308(TM) 1 and IEEE Std 603(TM).

**5.5 Need for the Project:** To address redundant power source separation requirements, update references and incorporate user feedback.

**5.6 Stakeholders for the Standard:** Stakeholders for this standard are utilities that operate nuclear power generating stations, the regulators and vendors that provide safety systems of nuclear power generating stations.

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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 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 a defined term in IEEE definitions and is repeated in IEEE 603 as follows. Class 1E: The safety classification of the electric equipment and systems that are essential to emergency reactor shutdown, containment isolation, reactor core cooling, and containment and reactor heat removal, or are otherwise essential in preventing significant release of radioactive material to the environment.

NOTE--Users of this standard are advised that Class 1E is a functional term. Equipment and systems are to be classified Class 1E only if they fulfill the functions listed in the definition. Identification of systems or equipment as Class 1E based on anything other than their function is an improper use of the term and should be avoided.

IEEE 308 - Standard Criteria for Class 1E Power Systems for Nuclear Power Generating Stations

IEEE 603 - Standard Criteria for Safety Systems for Nuclear Power Generating Stations