

P7-4.3.2

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Type of Project: Modify Existing Approved PAR

PAR Request Date: 29-Aug-2013

PAR Approval Date: 21-Oct-2013

PAR Expiration Date: 31-Dec-2015

Status: Modification to a Previously Approved PAR for the Revision of a Standard

Root PAR: P7-4.3.2 **Approved on:** 06-Dec-2006

Root Project: 7-4.3.2-2010

1.1 Project Number: P7-4.3.2

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard Criteria for Programmable Digital Devices in Safety Systems of Nuclear Power Generating Stations

Changes in title: Standard Criteria for **Programmable** Digital ~~Technology~~**Devices** in Safety Systems of Nuclear Power Generating Stations

3.1 Working Group: Programmable Digital Computers to Safety Systems Working Group (PE/NPE/WG_6.4)

Contact Information for Working Group Chair

Name: Warren Odess-Gillett

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Contact Information for Working Group Vice-Chair

None

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

Contact Information for Sponsor Chair

Name: George Ballassi

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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: 06/2015

4.3 Projected Completion Date for Submittal to RevCom: 10/2015

5.1 Approximate number of people expected to be actively involved in the development of this project: 10

5.2 Scope: This standard serves to amplify criteria in IEEE Std 603, IEEE Standard Criteria for Safety Systems for Nuclear Power Generating Stations, to address the use of programmable digital devices as part of safety systems in nuclear power generating stations. The criteria contained herein, in conjunction with criteria in IEEE Std 603, establish minimum functional and design requirements for programmable digital devices used as components of a safety system.

Changes in scope: This standard serves to amplify criteria in IEEE Std 603, IEEE Standard Criteria for Safety Systems for Nuclear Power Generating Stations, to address the use of **programmable** digital ~~technology~~**devices** as part of safety systems in nuclear power generating stations. The criteria contained herein, in conjunction with criteria in IEEE Std 603, establish minimum functional and design requirements for **programmable** digital ~~technology~~**devices** used as components of a safety system.

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.

Changes in purpose: The purpose is to establish minimum functional and design requirements for digital technology used as components of safety systems.

5.5 Need for the Project: The reason for this project is to update the standard to address 1) new digital technology in safety systems and, 2) new relevant standards and regulation.

5.6 Stakeholders for the Standard: Stakeholders for this standard are utilities that operate nuclear power generating stations, the regulators

and vendors that provide digital technology based equipment for use in safety systems of nuclear power generating stations.

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

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

8.1 Additional Explanatory Notes (Item Number and Explanation): 2.1 and 5.2 Original PAR explanation: "Title has changed from "digital computers" to "digital technology" to more accurately describe the expanded scope of the standard."

Revised PAR explanation: The original PAR used the term "Digital Technology" in the changed title. The working group changed this to "Programmable Digital Devices" and therefore the PAR was revised.