

P344

Submitter Email: yanosypl@westinghouse.com

Type of Project: Modify Existing Approved PAR

PAR Request Date: 18-Dec-2012

PAR Approval Date: 01-Feb-2013

PAR Expiration Date: 31-Dec-2014

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

Root PAR: P344 **Approved on:** 17-Jun-2010

Root Project: 344-2004

1.1 Project Number: P344

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Seismic Qualification of Equipment for Nuclear Power Generating Stations

Changes in title: ~~Recommended Practice~~Standard for Seismic Qualification of Equipment for Nuclear Power Generating Stations

3.1 Working Group: Working Group on Seismic Qualification (PE/NPE/WG_2.5)

Contact Information for Working Group Chair

Name: James Parello

Email Address: parelli@westinghouse.com

Phone: (704) 697-6452

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

Email Address: gballass@gdeb.com

Phone: 860 433-3389

Contact Information for Standards Representative

Name: Paul Yanosy

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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: 01/2013

4.3 Projected Completion Date for Submittal to RevCom: 05/2013

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

5.2 Scope: This standard describes methods for establishing seismic qualification procedures that will yield quantitative data to demonstrate that the equipment can meet its performance requirements.

Changes in scope: This ~~document~~standard describes ~~recommended~~methods practices for establishing seismic qualification procedures that will yield quantitative data to demonstrate that the equipment can meet its performance requirements~~during and/or following one safe shutdown earthquake (SSE) event preceded by a number of operating basis earthquake (OBE) events. The test, analysis, or experienced-based evaluation methods described herein may be used to yield data to demonstrate equipment performance claims or to evaluate and verify performance of devices and assemblies as part of an overall qualification effort.~~

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

5.4 Purpose: This standard provides methods and documentation requirements for seismic qualification of equipment to verify the equipment's ability to perform its specified performance requirements function during and/or after the specified seismic motions.

Changes in purpose: This ~~document~~standard provides ~~recommended~~methods practices and documentation requirements for seismic qualification of equipment to verify the equipment's ability to perform its ~~safety~~specified performance requirements function during and/or after the specified seismic motions.

5.5 Need for the Project: This project will provide guidance on use of experienced based seismic qualification for nuclear power plants. The target users are those utilites, vendors and suppliers in the nuclear industry.

5.6 Stakeholders for the Standard: Utilities, Vendors, A/Es, Suppliers

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?: Yes

If Yes please explain: IEC 60980 deals with seismic qualification of safety related electrical equipment for nuclear power stations.

and answer the following

Sponsor Organization: International Electrotechnical Commission (IEC)

Project/Standard Number: 60980

Project/Standard Date: 01-Jul-1989

Project/Standard Title: Recommended Practices for Seismic Qualification of Electrical Equipment of the Safety System for Nuclear Generating Stations

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): Class 1E" is being removed from the title, scope and purpose because IEEE Std 344 is being used by the nuclear industry for more then just Class 1E equipment. IEEE Std 344 is applicable to Class 1E equipment and other electrical equipment important to safety which includes both non-safety equipment that may impact safety-related equipment and post-accident monitoring equipment as defined in NRC 10CFR50.49, NRC 10CFR50.49, "Environmental qualification of electric equipment important to safety for nuclear power plants". IEEE Std 344 is also used for seismic qualification of mechanical equipment as referenced in ASME QME-1 entitled "Qualification of Active Mechanical Equipment Used in Nuclear Power Plants.

NRC = Nuclear Regulatory Commission

ASME = American Society of Mechnaical Engineers

The PAR is being modified to change the documet to a standard rather than a recommended practice.