



IEEE 344™ Project Status Report

James Parello, Chairman IEEE 344™ (SC-2.5)
IEEE SC-2 Meeting (07-2)
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Sheraton Sand Key Resort
Clearwater Beach, FL

IEEE 344™ Project Background

- Purpose: ... to provide recommended practices and documentation requirements for seismic qualification of Class 1E equipment to verify the equipment's ability to perform its safety function during and/or after the specified seismic motions
- IEEE-SA Standards Board approved IEEE 344™-2004 (12/08/2004)
- US NRC regulatory position on IEEE 344™-2004 will be issued in Regulatory Guide 1.100 Revision 3

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Potential Areas for Review

- Provide guidance on qualification of replacement components and devices using experience-based method.
- Review documents for their impact on IEEE 344™:
 - 10 CFR 100 (Appendix A – Seismic and Geologic Siting Criteria for Nuclear Power Plants, 8/2006)
 - NRC Regulatory Guide 1.29, Revision 4, "Seismic Design Classification"
 - NRC Regulatory Guide 1.61, Revision 1, "Damping Values for Seismic Design of Nuclear Power Plants"
 - ASCE Std ASCE/SEI 43-05, "Seismic Design Criteria for Structures, Systems, and Components in Nuclear Facilities"
- Impact of High Frequency on Seismic Qualification of Equipment (EPRI White Paper – "Seismic Screening of Components Sensitive to High Frequency Vibratory Motions," 6/2007)

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Action Plan

- Review NRC R G 1 100 Revision 3. (December 2008)
- Form a IEEE 344™ Study Group to address NRC comments to IEEE 344™-2004 and define potential areas of revision. (February 2009)
- Document project work scope and purpose for submittal in a project authorization request (PAR). (June 2009)
- Obtain a project Sponsor from NPEC (Nuclear Power Engineering Committee) for the PAR. (July 2009)
- Develop a PAR and submit to NesCom for approval. (PARs are approved four times a year by NesCom)