



IEEE 344TM Project Status Report

James Parello, Chairman IEEE 344TM (SC-2.5)
IEEE SC-2 Meeting (07-2)
Wednesday, April 9, 2008

Sheraton Myrtle Beach Convention Center
Myrtle Beach, SC



IEEE 344TM 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 344TM-2004 (12/08/2004)
- US NRC regulatory position on IEEE 344TM-2004 will be issued in Regulatory Guide 1.100 Revision 3.

IEEE 344™ Project

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”
 - ASME Std QME-1-2007, “Qualification of Active mechanical equipment used in Nuclear Power Plants”
- Impact of High Frequency on Seismic Qualification of Equipment (EPRI White Paper – “Seismic Screening of Components Sensitive to High Frequency Vibratory Motions,” 6/2007)



IEEE 344TM Project Action Plan

- Review NRC R.G. 1.100 Revision 3 **(December 2008)**
- Form an IEEE 344TM Study Group to address NRC comments to IEEE 344TM-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)