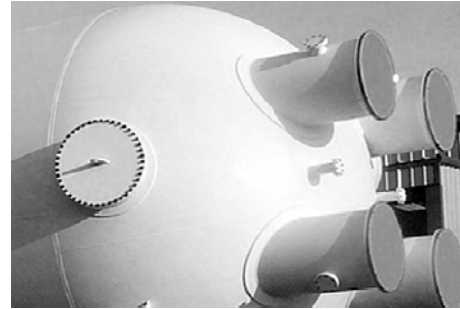
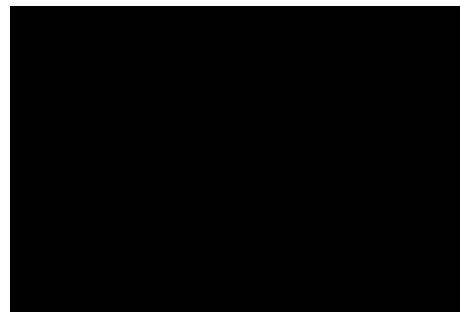


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Nuclear Division



Maintaining Seismic Qualification



Maintaining Seismic Qualification

- A white paper is being developed in IEEE 344 to identify changes that may impact seismic qualification
- Working group identifying audience that the white paper is trying to reach
- Initially, audience identified as young seismic engineers with limited experience

Maintaining Seismic Qualification

- Emphasize that records need to be properly maintained so that design changes can be reviewed to verify design changes to internal parts/sub-components have not invalidated previous qualification testing
- Develop a check list to detail changes that may invalidate seismic qualification

Maintaining Seismic Qualification

- Recent concerns identified by EPRI JUTG is that the procurement engineers (dedication) and design engineers may not understand impact on seismic qualification
- Presentation given at the request of EPRI on topic of Maintaining Seismic Qualification at February 2016 JUTG meeting

Maintaining Seismic Qualification

- EPRI TR-102260 “Supplemental Guidance for the Application of EPRI Report NP-5652 on the Utilization of Commercial Grade Items”

2.0 EPRI REPORT NP-5652 IMPLEMENTATION GUIDANCE

2.2.3 Equipment Qualification versus CGI Acceptance Process

2.2.3.1 Issue. Some suppliers, vendors, and utilities are substituting the equipment qualification process (both seismic qualification and environmental qualification) for the CGI acceptance process. This appears to result from the similarity in the testing or acceptance methods used to perform CGI acceptance and equipment qualification. Failure to recognize the differences could result in the use of inadequately qualified equipment or over specification of acceptance requirements.

Maintaining Seismic Qualification

- Recent concerns identified by NRC at EPRI JUTG meeting that seismic qualification is not being adequately addressed when using generic databases or GSTERI are used

Maintaining Seismic Qualification

Reg. Guide Status Update

DG-1292, “Dedication of Commercial-grade Items

Guidance developed to approve for use Revision 1 of EPRI - 5652 and TR-102260

- Currently under staff review - expected issuance by Q4 2016
- Potential Exception (involving seismic)
 1. NRC has not endorsed the following:
 - “Seismic Technical Evaluation of Replacement Items for Nuclear Power Plants (STERI)(NP-7874),” and
 - “Plant Support Engineering: Generic Seismic Technical Evaluations of replacement Items for Nuclear Power Plants (TR 105849 Revision 1).
 2. **Generic data bases cannot be the sole basis** for seismic evaluation



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Maintaining Seismic Qualification

- Meeting being held at EPRI May 3 to address this topic

	Tuesday May 3 (08:30 – 16:30)
Topic	Maintaining Seismic Qualification
Objective	Develop a plan for addressing regulatory concerns with maintaining seismic qualification during CGD <ul style="list-style-type: none"> • Development of guidance • Training presentations at industry meetings
Agenda Items	<ul style="list-style-type: none"> • NRC Regulatory Position on use of databases for establishing seismic qualification is maintained • Identification of a facility's baseline seismic qualification requirements • Intent of G-STERI, SQRSTS for the Equivalency Evaluation process • What do "seismically rugged," "seismically insensitive," and "seismically sensitive" mean? <ul style="list-style-type: none"> • What is the impact on EE, CGD • How G-STERI is being used by licensees for commercial grade dedication • Options for establishing the item being dedicated is similar to the one upon which qualification is based <ul style="list-style-type: none"> • Seismic critical characteristics (CCs) • Relationship between other CCs and Seismic CCs • Importance of documenting how seismic qualification is maintained • Does guidance need to be developed? • Develop an outline of what the guidance should include • Review Plan for moving forward and action items

Maintaining Seismic Qualification

- Action Item: Develop presentation with seismic qualification history, categories of plants (A-46, IEEE 1971, IEEE Later) and associated requirements for seismic qualification

Maintaining Seismic Qualification

QUESTIONS???



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