

October 05, 2001

MEMORANDUM TO: Cynthia A. Carpenter, Chief
Risk Informed Initiatives, Environmental, Decommissioning,
and Rulemaking Branch
Division of Regulatory Improvement Programs, NRR

FROM: Peter C. Wen, Project Manager/**RA**
Risk Informed Initiatives, Environmental, Decommissioning,
and Rulemaking Branch
Division of Regulatory Improvement Programs, NRR

SUBJECT: SUMMARY OF AUGUST 30, 2001, MEETING WITH THE NUCLEAR
ENERGY INSTITUTE (NEI) REGARDING EXPERIENCE-BASED
SEISMIC EQUIPMENT QUALIFICATION METHODOLOGY

On August 30, 2001, a public meeting was held at the Nuclear Regulatory Commission (NRC) offices in Rockville, Maryland. The participants included members of the NRC staff and representatives from the Nuclear Energy Institute (NEI) and the Seismic Experience-Based Qualification (SEQUAL) Owners Group. Attachment 1 lists attendees at the meeting. Attachment 2 contains the meeting agenda, and Attachment 3 is a set of slides presented at the meeting by the industry representatives.

In response to an NEI request for staff review and approval of a SEQUAL topical report, "Basis for Adoption of the Experience-Based Seismic Equipment Qualification (EBSEQ) Methodology by Non-A46 Nuclear Power Plants," Revision 0, dated 4/17/2001, the staff issued a letter, dated August 13, 2001, describing the results of the staff's acceptance review of the topical report. (Refer to ADAMS Accession # ML012260356). The purpose of the meeting was to provide an opportunity for industry participants to respond to NRC acceptance review findings and for staff to elaborate on the basis for its findings.

During the meeting, SEQUAL presented its position in response to the staff's findings in the August 13, 2001, letter. The major discussions are summarized as below:

Item of Staff's Concern	Descriptions	Actions/Comments
1	Concurrent functional and accident-induced loading	SEQUAL will revise the topical report to further address staff's concerns.
2	The number and the accuracy of response spectra used to create the GIP-2 reference spectrum	The staff agreed with the industry representatives' explanation.

3	The use of Method A in GIP-2 for equipment seismic demand determination	The staff will provide its feedback in a follow-up teleconference.
4	The broad nature of GIP-2 equipment classes used for non A-46 plants	The staff will provide its feedback in a follow-up teleconference.
5	The use of GIP-2 reference spectrum to represent the seismic capacity of all of the equipment in the earthquake experience database	The staff will provide its feedback in a follow-up teleconference.
6	The use of the "rule of the box" concept in equipment seismic qualification for subassemblies	SEQUAL will revise the topical report to further address staff's concerns.
7	The adequacy of GIP-2 document to be used as a seismic qualification method	The staff agreed with the industry representatives' explanation.
8	The equipment seismic qualification for operating basis earthquakes (OBE)	SEQUAL will revise the topical report to further address staff's concerns.

At the conclusion of the meeting, the industry representatives expressed their interest in continuing the dialogue with the NRC staff on the subject via telephone conferences. Future meetings between SEQUAL and NRC staff will be scheduled depending on the progress achieved from the teleconference exchanges.

Attachments: As stated
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3	The use of Method A in GIP-2 for equipment seismic demand determination	The staff will provide its feedback in a follow-up teleconference.
4	The broad nature of GIP-2 equipment classes used for non A-46 plants	The staff will provide its feedback in a follow-up teleconference.
5	The use of GIP-2 reference spectrum to represent the seismic capacity of all of the equipment in the earthquake experience database	The staff will provide its feedback in a follow-up teleconference.
6	The use of the "rule of the box" concept in equipment seismic qualification for subassemblies	SEQUAL will revise the topical report to further address staff's concerns.
7	The adequacy of GIP-2 document to be used as a seismic qualification method	The staff agreed with the industry representatives' explanation.
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**NRC-NEI/SEQUAL MEETING REGARDING EXPERIENCE-BASED
SEISMIC EQUIPMENT QUALIFICATION METHODOLOGY**

**LIST OF ATTENDEES
AUGUST 30, 2001**

<u>NAME</u>	<u>ORGANIZATION</u>
Pei-Ying Chen	NRC/NRR/DE
John Fair	NRC/NRR/DE
Y. C. (Rene) Li	NRC/NRR/DE
P. T. Kuo	NRC/NRR/DE
Greg Hardy	ABS Consulting (Formerly EQE)
Bob Kassawara	EPRI
Paul Baughman	ABS Consulting/EQE
John Butler	NEI
James Fisicaro	Duke-Energy
John Richards	Duke-Energy
Richard Starck	MPR Associates, Inc.
Kamal Manoly	NRC/NRR/DE
Cliff Munson	NRC/NRR/DE

AGENDA FOR NRC-NEI and SEQUAL MEETING
ON SEISMIC QUALIFICATION OF EQUIPMENT

August 30, 2001; 9:00 a.m. - 12:00 noon
Room O-6B4

9:00	Introduction and Opening Remarks	NRC/NEI
9:10	Review of Topical Report	Industry
	– Purpose and Intended Use	
	– Document Scope	
9:30	Results of NRC Acceptance Review	NRC
10:00	SEQUAL Responses to NRC Acceptance Review Items	Industry
11:00	Discussion	All
12:00	Adjourn	