

May 8, 2013

MEMORANDUM TO: Joseph Colaccino, Branch Chief  
Policy Branch  
Division of Advanced Reactors and Rulemaking  
Office of New Reactors

FROM: Jonathan L. DeGange, Project Manager /RA/  
Policy Branch  
Division of Advanced Reactors and Rulemaking  
Office of New Reactors

SUBJECT: SUMMARY OF PUBLIC MEETING ON PROPOSED CHANGES  
TO STANDARD REVIEW PLAN SECTIONS 3.7 AND 3.8

On April 10, 2013, the U.S Nuclear Regulatory Commission (NRC) hosted a Category 2 public meeting to share and discuss proposed changes to its *Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants: LWR Edition* (NUREG-0800, formerly issued as NUREG-75/087). The meeting addressed the technical rationale for proposed enhancements to seismic and structural review guidance in Sections 3.7 and 3.8 of the Standard Review Plan (SRP). Details of the discussion on these proposed enhancements follow.

### **Summary**

Mr. Jonathan DeGange and Mr. Jim Xu from the NRC's Office of New Reactors (NRO) opened the meeting with an introduction and brief summary of the meeting agenda. The meeting allowed the NRC staff to obtain feedback and comments from stakeholders on the proposed changes to SRP Sections 3.7 and 3.8.

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A draft of the proposed revision (Revision 4) was issued via Federal Register Notice (FRN) on March 1, 2013 (78 FRN 13911). The NRC staff explained that NRC was accepting public comments on the draft guidance until May 1, 2013. The NRC staff then provided a brief description of the process for submitting comments via the FRN online.

SRP Sections 3.7 and 3.8 provide acceptance criteria for seismic analysis, and design of containment and other seismic Category I structures and foundations. The last revision to these sections was in 2007. Since then the NRC staff has completed two reviews of reactor design certification applications and several combined license applications. Many of the proposed changes reflected lessons learned from these reviews.

A discussion of 11 key technical issues comprised the bulk of the meeting. The staff gave a presentation on the issues, followed by discussion of each issue. The slides used at the meeting can be found at the NRC Agencywide Documents Access Management System (ADAMS) Accession No. ML13091A046. The technical basis for these changes can be found at ADAMS Accession No. ML13042A173. The 11 technical issues discussed were:

1. Seismic uplift in soil-structure interaction (SSI) analysis
2. Seismic stability evaluation for design of structures
3. Interaction of non-Category I structures with Category I structures
4. Seismic soil pressure on embedded walls
5. Ground motion incoherency effects on seismic SSI
6. Cracking effects on seismic analysis of concrete structures
7. Differential settlement and construction sequence considerations in foundation design
8. Artificial time history development
9. Standard plant site parameters and considerations for seismic design basis
10. Issues with System for Analysis of Soil-Structure Interaction (SASSI) subtraction method
11. Guidance for assessing spent fuel pool rack integrity

**Conclusion**

The meeting concluded with a brief recap regarding submitting comments on the proposed changes. After the technical discussion was completed the NRC staff opened up the meeting for any public comments. There were no comments from the public beyond the scope of the technical discussion on the material covered in the meeting.

Enclosure:

1. Meeting Agenda
2. Attendance List

cc w/encl: DCWG - Combined (All)

**Conclusion**

The meeting concluded with a brief recap regarding submitting comments on the proposed changes. After the technical discussion was completed the NRC staff opened up the meeting for any public comments. There were no comments from the public beyond the scope of the technical discussion on the material covered in the meeting.

Enclosure:

- 1. Meeting Agenda
- 2. Attendance List

cc w/encl: DCWG - Combined (All)

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**\*via e-mail**

**NRC-001**

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NAME	JDeGange	BAbeywickrama*	JXu	JColaccino
DATE	5/2/13	5/2/13	5/2/13	5/8/13

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**MEETING AGENDA**

**PUBLIC MEETING ON PROPOSED CHANGES TO STANDARD REVIEW PLAN SECTIONS  
3.7 AND 3.8**

**Wednesday, April 10, 2013  
1:00 p.m. – 4:30 p.m.**

**U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20852  
T-10A01**

<b>TIME</b>	<b>TOPIC</b>	<b>LEAD</b>
1:00 p.m.– 2:30 p.m.	Discussion of Changes to SRP Sections 3.7 and 3.8	NRC
2:30 p.m. -2:45 p.m.	Break	All
2:45 p.m. – 4:00 p.m.	Discussion of Changes to SRP Sections 3.7 and 3.8	NRC
4:00 p.m. - 4:30 p.m.	Public comments	All

**PUBLIC MEETING ON PROPOSED CHANGES TO  
STANDARD REVIEW PLAN SECTIONS 3.7 AND 3.8**

**Wednesday, April 10, 2013**

**Attendance List**

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Larry Nicholson	ARES	Samir Chakrabarti	NRC
Dr. Raj S. Rajagopal	ARES	Pravin Patel	NRC
Dr. Jian C. Chen	ARES	Robert Roche-Rivera	NRC
Dr. Mohsin R. Khan	ARES	Jerry Chuang	NRC
Dr. Ming-San Yang	ARES	Ret Tegeler	NRC
Lisa Anderson	Bechtel	Madhumita Sircar	NRC
Michael McHood	Bechtel	Kamal Manoly	NRC
Steve Shapiro	Bechtel	Jim Xu	NRC
Dr. Sanj Malushte	Bechtel	Brian Thomas	NRC
Carlos Coronado	Bechtel	Yong Li	NRC
Joseph Braverman	BNL	Weijun Wang	NRC
Carlos Costantino	CDCA	Jonathan DeGange	NRC
D. Nuta	Entergy	Manas Chakravorty	NRC
Richard Anoba	Hughes Associates	Sunwoo Park	NRC
Michael Tschiltz	MNES	Ata Istar	NRC
Takinori Ogata	MNES	Mohamed Shams	NRC
William McConaghy	MNES	Herman Graves	NRC
James Raleigh	MNES	Javad Moslemian	Sargent and Lundy
Kazuya Sasahara	MNES	Bob Whorton	SCANA
Kimberly Keithline	NEI	Donald Moore	Southern
Scott Head	NINA	Carlos Cantarero-Leal	Westinghouse
Stephanie Devlin	NRC	Rob Sisk	Westinghouse
Thomas Herrity	NRC		

DCWG - Combined (All)

(Revised 03/07/2013)

cc:

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