

August 20, 2007

MEMORANDUM TO: William D. Reckley, Branch Chief
Guidance, Infrastructure and Financial Review Branch
Division of New Reactor Licensing
Office of New Reactors

FROM: Ram Subbaratnam, Project Manager */RA/*
Guidance, Infrastructure and Financial Review Branch
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: FORTHCOMING MEETING WITH INDUSTRY - SEISMIC SITE
RESPONSE ANALYSIS - WORKSHOP ON SEISMIC ISSUES

DATES & TIMES: Tuesday, August 28, 2007 and Wednesday, August 29, 2007
9:00 a.m. - 5:00 p.m. (see Agenda)

LOCATION: Hilton Washington DC-Rockville Executive Meeting Center
1750 Rockville Pike
Rockville, MD

TOPIC: Seismic Site Response Analysis
Workshop on Seismic Issues

CATEGORY 2*: This is a Category 2 meeting. The public is invited to participate in this meeting by discussing regulatory issues with the NRC at designated points on the agenda.

*Commission's Policy Statement on "Enhancing Public Participation in NRC Meetings,"
67 Federal Register 36920, May 28, 2002

CONTACT: Ram Subbaratnam, NRO/DNRL/NGIF
301-415-1478
rxs2@nrc.gov

PARTICIPANTS: Participants from the NRC includes staff of the Office of New Reactors (NRO) and the Office of Research (RES).

NRC

Nilesh Chokshi
Rebecca Karass
Cliff Munson
Gautam Bahchi
Young LI
Ram Subbaratnam
et al.

INDUSTRY

Russell Bell (NEI)
R. McGuire
G. Toro
W. Silve
N. Abrahamson
J. Johnson
S. Short
F. Ostadan

Enclosure:
As stated

cc/encl: See next page

REVISED

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Distribution:

NGIF R/F	Receptionist - OWFN
W. Reckley	Receptionist - TWFN
R. Subbaratnam	PMNS/PUBLIC
J. Yerokum	RidsNroOd
A. Valentin	RidsNroDnrl
J. Nakoski	RidsNroDnrlNcpm
S. O'Conner	RidsNroDnrlNge1
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W. Kemper	RidsNroDnrlNpls
R. Rasmussen	RidsNroDnrlNwe1
T. Frye	RidsNroDcip
R. Croteau	RidsNroDe
W. Ott	RidsNroDser
T. Koshy	RisRroDsra
J. Perlata	RidsOpaMail
G. Powers	RidsEdoMailCenter
T. Scarbrough	RidsOgcMailCenter
Y. Li	RidsAcrsAcnwMailCenter
N. Chokshi	
R. Karass	
G. Bagchi	
C. Munson	

ADAMS Accession Number: ML072320180

OFFICE	NRO/DNRL/NGIF
NAME	RSubbaratnam
DATE	08/20/2007

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Meeting Agenda
Tuesday, August 28, 2007
9:00 a.m. - 5:00 p.m.

Day 1

Workshop on PSHA/Site Response/Site Spectra

First Day of workshop to review methods of probabilistic seismic hazard analysis (PSHA), site response, and derivation of site spectra (including spectra from ASCE 43-05):

<u>TOPIC</u>	<u>Presenter</u>
<i>PSHA</i>	<i>Robin McGuire</i>
<ul style="list-style-type: none">• Methods, databases, ground motions• CAV filter	
<i>Site Response</i>	<i>Gabriel Toro and Walt Silva</i>
<ul style="list-style-type: none">• Site data necessary• Randomization of site parameters• Computer software (SHAKE and RVT)• Results of analysis	
<i>Site Hazard</i>	<i>Robin McGuire</i>
<ul style="list-style-type: none">• Approaches 2A, 2B, 2A/3, and 4 to calculate site hazard	
<i>Site Spectra</i>	<i>Robin McGuire</i>
<ul style="list-style-type: none">• Generation of design response spectra according to ASCE 43-05• Review of performance-based results	

A telephone conference bridge has been established for this meeting. The telephone number is 1-888-282-8353, the passcode is 38613 (followed by # sign).

Enclosure

Meeting Agenda
Wednesday, August 29, 2007
9:00 a.m. - 5:00 p.m.

DAY 2

Workshop on Incoherence and SSI

Second day workshop to review ground motion incoherence models, methods of calculating soil-structure interaction (SSI), and computer codes for SSI:

<u>TOPIC</u>	<u>Presenter</u>
<i>Ground motion incoherence</i>	<i>Norm Abrahamson</i>
<ul style="list-style-type: none">● Historical perspective of coherency● Background on derivation of state-of-the-art coherency function● Coherency function, including variation with embedment depth and effects of site profile (rock vs. soil)	
<i>Soil Structure Interaction</i>	<i>Jim Johnson</i>
<ul style="list-style-type: none">● Historical perspective● Coherent SSI Analysis Approaches● Incorporation of Incoherency effects	
<i>CLASSI Response Incorporating Incoherency Effects</i>	<i>Jim Johnson and Steve Short</i>
<ul style="list-style-type: none">● Basic discussion of CLASSI● Incorporation of Incoherency Effects● Benchmark Problems Performed with CLASSI	
<i>SASSI Response Incorporating Incoherency Effects</i>	<i>Steve Short and Farhang Ostadan</i>
<ul style="list-style-type: none">● SASSI Background: ACS SASSI (Steve Short) and Bechtel SASSI (Farhang Ostadan)● Benchmark Problems Performed with SASSI--ASC SASSI (Steve Short) and Bechtel SASSI (Farhang Ostadan)	
<i>SSI Input Parameters</i>	<i>Farhang Ostadan</i>
<ul style="list-style-type: none">● Development of input motion to SSI model (Site-specific SSE vs input motion: spectra & time histories, vertical input vs. horizontal input motion, and in-column vs outcrop motion, etc.)● Defining the soil profiles to use in SSI analysis	

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Combination Mailing List:

cc: (page 1)

Mr. Laurence Parme
Manager, GT-MHR Safety & Licensing
General Atomics Company
P.O. Box 85608
San Diego, CA 92186-5608

Mr. David Lochbaum, Nuclear Safety Engineer
Union of Concerned Scientists
1707 H Street, NW, Suite 600
Washington, DC 20006-3919

Mr. Paul Gunter
Nuclear Information & Resource Service
1424 16th Street, NW, Suite 404
Washington, DC 20036

Mr. James Riccio
Greenpeace
702 H Street, NW, Suite 300
Washington, DC 20001

Mr. Adrian Heymer
Nuclear Energy Institute
Suite 400
1776 I Street, NW
Washington, DC 20006-3708

Mr. George Alan Zinke
Project Manager
Nuclear Business Development
Entergy Nuclear
M-ECH-683
1340 Echelon Parkway
Jackson, MS 39213

Ms. Marilyn Kray
Vice President, Special Projects
Exelon Generation
200 Exelon Way, KSA3-E
Kennett Square, PA 19348

Mr. Charles Brinkman
Westinghouse Electric Co.
Washington Operations
12300 Twinbrook Pkwy., Suite 330
Rockville, MD 20852

Mr. Joseph D. Hegner
Lead Engineer - Licensing
Dominion Generation
Early Site Permitting Project
5000 Dominion Boulevard
Glen Allen, VA 23060

Mr. Edward L. Quinn
Longenecker and Associates
Utility Operations Division
23292 Pompeii Drive
Dana Point, CA 92629

Mr. Paul Leventhal
Nuclear Control Institute
1000 Connecticut Avenue NW, Suite 410
Washington, DC 20036

Mr. Jay M. Gutierrez
Morgan, Lewis & Bockius, LLP
1111 Pennsylvania Avenue, NW
Washington, DC 20004

Mr. W. Edward Cummins
AP600 and AP1000 Projects
Westinghouse Electric Company
P.O. Box 355
Pittsburgh, PA 15230-0355

Mr. Gary Wright, Manager
Office of Nuclear Facility Safety
Illinois Department of Nuclear Safety
1035 Outer Park Drive
Springfield, IL 62704

Combination Mailing List:

cc: (page 2)

Mr. Brendan Hoffman
Research Associate on Nuclear Energy
Public Citizens Critical Mass Energy and
Environmental Program
215 Pennsylvania Avenue, SE
Washington, DC 20003

Mr. Lionel Batty
Nuclear Business Team
Graftech
12300 Snow Road
Parma, OH 44130

Mr. Ian M. Grant
Canadian Nuclear Safety Commission
280 Slater Street, Station B
P.O. Box 1046
Ottawa, Ontario
K1P 5S9

Mr. Glenn H. Archinoff
AECL Technologies
481 North Frederick Avenue
Suite 405
Gaithersburg, MD 20877

Mr. Ed Wallace, General Manager
Projects
PBMR Pty LTD
PO Box 9396
Centurion 0046
Republic of South Africa

Mr. Dobie McArthur
Director, Washington Operations
General Atomics
1899 Pennsylvania Avenue, NW, Suite 300
Washington, DC 20006

Mr. Russell Bell
Nuclear Energy Institute
Suite 400
1776 I Street, NW
Washington, DC 20006-3708

Ms. Vanessa E. Quinn, Chief
Radiological Emergency Preparedness
Branch
Nuclear and Chemical Preparedness and
Protection Division
Department of Homeland Security
1800 South Bell Street, Room 837
Crystal City-Arlington, VA 22202-3546

Mr. Ron Simard
6170 Masters Club Drive
Suwanee, GA 30024

Ms. Sandra Sloan
Areva NP, Inc.
3315 Old Forest Road
P.O. Box 10935
Lynchburg, VA 24506-0935

Ms. Anne W. Cottingham
Assistant General Counsel
Nuclear Energy Institute
1776 I Street, NW, Suite 400
Washington, DC 20006

Mr. David Repka
Winston & Strawn LLP
1700 K Street, NW
Washington, DC 20006-3817

Mr. Robert E. Sweeney
IBEX ESI
4641 Montgomery Avenue
Suite 350
Bethesda, MD 20814

Mr. Eugene S. Grecheck
Vice President, Nuclear Support Services
Dominion Energy, Inc.
5000 Dominion Blvd.
Glen Allen, VA 23060

Combination List:

cc: (page 3)

E-Mail:

tom.miller@hq.doe.gov
tom.miller@nuclear.energy.gov
mark.beaumont@wsms.com
sfrantz@morganlewis.com
ksutton@morganlewis.com
jgutierrez@morganlewis.com
sandra.sloan@areva.com
mwetterhahn@winston.com
gcesare@enercon.com
whorin@winston.com
erg-xl@cox.net
steven.hucik@ge.com
david.hinds@ge.com
chris.maslak@ge.com
mgiles@entergy.com
patriciaL.campbell@ge.com
bob.brown@ge.com
jim@ncwarn.org
pshastings@duke-energy.com
ronald.hagen@eia.doe.gov
murawski@newsobserver.com
Cary.Fleming@constellation.com
tansel.selekler@nuclear.energy.gov
tansel.selekler@hq.doe.gov
trsmith@winston.com
James.Beard@gene.ge.com
george.stramback@gene.ge.com
david.lewis@pillsburylaw.com
paul.gaukler@pillsburylaw.com
john.o'neill@pillsburylaw.com
matias.travieso-diaz@pillsburylaw.com
maria.webb@pillsburylaw.com
roberta.swain@ge.com

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