

April 2, 2009

MEMORANDUM TO: Gregory V. Cranston, Chief  
Reactor Systems Branch  
Division of Safety Systems  
Office of Nuclear Reactor Regulation

FROM: David P. Beaulieu, Project Manager **/RAI/**  
Generic Communications and Power Uprate Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF THE MARCH 19, 2009, CATEGORY 2 PUBLIC MEETING WITH THE NUCLEAR ENERGY INSTITUTE TO DISCUSS NRC GENERIC LETTER 2008-01, "MANAGING GAS ACCUMULATION IN EMERGENCY CORE COOLING, DECAY HEAT REMOVAL, AND CONTAINMENT SPRAY SYSTEMS"

On March 19, 2009, the Nuclear Regulatory Commission (NRC) staff met with representatives of the Nuclear Energy Institute (NEI) in a public meeting at the NEI offices in Washington, DC. The purpose was to discuss NRC Generic Letter (GL) 2008-01, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems." Enclosure 1 provides a list of those in attendance and those that participated via teleconference. The NEI slide presentation and the NRC slide presentation can be found on the NRC's public website in the Agencywide Documents Access and Management System (ADAMS) under Accession No. ML090861035. The current draft of the NRC document "Information Necessary for the Office of Nuclear Reactor Regulation to Assess Licensee Responses to Generic Letter 2008-01," that was discussed during the meeting is available at ADAMS Accession No. ML090861038.

The discussion topics included:

- Current progress towards addressing NRC reviews of GL 2008-01 responses and formulate plans for industry responses to NRC requests for additional information (RAI)
- NRC Temporary Instruction for plant inspections and understand plant support requirements
- Industry/NRC void acceptance criteria and areas for further work
- Current industry actions
- NRC review status and plans

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Summary:

- NRC focus
  - Provide NRC assessment guidance document to licensees identifying any supplemental information needed to close the GL with due consideration for regulatory burden
  - Obtain the necessary information to bring the GL to closure in a timely manner
  - Ensure licensees capture appropriate GL related procedures, processes, and surveillances in their licensing bases
  - Provide Temporary Instruction (TI) to Regions consistent with GL and conduct a training session
  - Complete detailed reviews of licensee 9-month submittals by the end of September 2009
  - Issue draft Assessment Reports
  - Issue final Assessment Reports with RAI if needed
  
- Industry focus
  - Ensure plants are and will remain operable as related to the GL
  - Provide the NRC with information necessary for closure of the GL
  - Establish acceptable void acceptance criteria
  - Prepare an Excellence Document to capture best practices for detecting and preventing gas intrusion for distribution to all licensees
  - Develop a training module to be used by licensees for finding and quantifying gas voids

Action Items:

- Industry to provide comments on draft assessment guidance document (Enclosure 2 of this meeting summary) that was discussed at the meeting (end of April)
- NRC will incorporate appropriate comments and ensure final assessment guidance document and TI are consistent (mid May)
- Licensees will voluntarily provide supplemental information based on assessment guidance document or NRC will issue RAIs to obtain needed information (optional – avoids RAIs)
- NRC complete detailed review of nine-month submittals (end of September)
- NRC and industry will continue to work toward an agreement on void acceptance criteria. Currently not far apart (Ongoing)
- Technical considerations include: flow rates, Froude number, pressure, pump volume, net positive suction head required, piping configurations
- NEI/industry preparing Excellence Document to incorporate best generic attributes from US fleet gas management programs and practices, including the additional other susceptible systems not specifically identified in the GL (schedule to be determined)
- NEI/industry developing training modules to assist in training plant personnel on gas voids in piping systems including modules for broad topic knowledge and specific department training to be completed at an established periodic interval (first draft by end of 2009)

Enclosure:

As stated

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DISTRIBUTION:

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Warren Lyon	Gregory Cranston	RidsNrrAdes

ADAMS Accession Nos: ML090861018 (Package); ML090861020 (Summary);  
ML090861035 (Slides); ML090861038 (NRR Assess)

NRC-001

OFFICE	LA:PGCB:DPR	PM:DPR:PGCB	BC:DPR:PGCB	BC:SRXB:DSS
NAME	CHawes	DBeaulieu	MMurphy	GCranston
DATE	03/30/09	3/30/09	3/31/09	4/2/09

**LIST OF ATTENDEES FOR MARCH 19, 2009  
MEETING OF NEI REPRESENTATIVES AND NRC**

NAME	ORGANIZATION
S. Bahudur	NRC
G. Cranston	NRC
W. Lyon	NRC
D. Woodyatt	NRC
C. Brennan	Exelon Nuclear
L. Bruster	FPL
D. Buschbaum	Pressurized-Water Reactor Owners Group – Luminant Power
R. Centenaro	PPL Susquehanna, LLC
D. Coleman	Boiling-Water Reactor Owners Group - Energy Northwest
B. Cummings	Detroit Edison – Fermi 2 Nuclear Power Station
J. Duffy	PSEG
L. England	Entergy Corporation
S. Exum	South Texas Project Nuclear Operating Company
R. Henry	Fauske & Associates, Inc
M. Hojati	Southern California Edison Company – San Onofre
A. Lin	Pacific Gas & Electric Company - Diablo Canyon
W. McGoun	Progress Energy
B. McKercher	Dominion Generation
M. Melton	Nuclear Energy Institute
S. Muntzenberger	PPL Susquehanna, LLC
J. Paul	South Texas Project Nuclear Operating Company
K. Petersen	Wolf Creek Nuclear Operating Corporation
J. Riley	Nuclear Energy Institute
G. Schinzel	STARS
N. Tyler	Constellation Energy
R. Upadhyaya	Flowserve Corporation
P. Wilkins	Southern California Edison Company – San Onofre
L. Windham	Luminant Power
W. Turkowski	Westinghouse

ENCLOSURE

**LIST OF TELECONFERENCE PARTICIPANTS**

NAME	ORGANIZATION
S. Bowers	PSEG Nuclear
J. Brzezniak	Constellation Energy, R.E. Ginna
J. Camire	URS – Washington Division
T. Chan	Tennessee Valley Authority
R. Clark	Entergy Nuclear South – Arkansas Nuclear One
K. Evers	Automated Engineering Services
H. Hegrat	FirstEnergy Nuclear Operating Co
T. Herbert	Florida Power & Light Company
R. Kersey	South Texas Project Nuclear Operating Company
R. Kirk	Duke Energy Carolinas, LLC - McGuire
G. Levy	Cooper Nuclear Station
R MacLellan	R. Brooks Associates, Inc.
D. Madsen	Cooper Nuclear Station
K. McCann	Dominion Energy Kewaunee
S. Unikewicz	Alion Science & Technology
C. Vincent	R. Brooks Associates, Inc.
E. Weinfurter	Entergy - River Bend Station
B. Weir	R. Brooks Associates, Inc.
P. Worthington	Progress Energy

Presentation Slides  
Meeting Summary of the 3/19/2009 Meeting with  
NRC/NEI  
Dated April 2, 2009