November 13, 2008

MEMORANDUM TO: Donald Harrison, Acting Chief
Safety Issues Resolution Branch
Division of Safety Systems
Office of Nuclear Reactor Regulation

FROM: Joseph A. Golla, Project Manager ***/RA/***
Generic Communications and Power Uprate Branch
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF SEPTEMBER 10, 2008, PUBLIC MEETING WITH THE BOILING WATER REACTOR OWNER'S GROUP (BWROG) TO DISCUSS THE BWROG PROGRAM PLAN FOR THE TREATMENT OF EMERGENCY CORE COOLIN SYSTEM (ECCS) SUCTION STRAINER TECHNICAL ISSUES

On September 10, 2008, Nuclear Regulatory Commission (NRC) staff met with representatives of the BWROG in a public meeting at NRC headquarters in Rockville, Maryland. Enclosure 1 provides a list of those in attendance. Enclosure 2 is the meeting agenda. Information presented by the BWROG at the meeting is available in the NRC Agencywide Documents Access and Management System (ADAMS) under Accession No. ML083100274.

The purpose of the meeting was to discuss the BWROG Program Plan for addressing certain boiling water reactor (BWR) ECCS suction strainer technical issues and path forward for BWRs. The meeting was a followup to a meeting held with the BWROG on June 5, 2008. The meeting summary of the June 5, 2008, meeting can be viewed at ADAMS Accession No. ML081620552.

Mr. John Grobe, the NRC Associate Director for Engineering and Safety Systems (ADES) in the Office of Nuclear Reactor Regulation initiated the meeting with opening remarks. Then the Chairman of the BWROG, Mr. Doug Coleman, presented information concerning the overall funding of the BWROG effort and duration. The BWROG is planning their efforts over a three year schedule.

The remainder of the briefing was presented by the BWR ECCS Suction Strainers Committee Chairman, Mr. Tom Morales. There are four BWROG subcommittees set up to address the planned activities. They are: Downstream Effects on Components, Downstream Effects on Fuel, Debris Source Terms, and Head Loss Correlations. Major activities for 2008 include the following: assessment of fuel blockage, assessment of BWROG Utility Resolution Guidance vs. NEI 04-07, development of a White Paper on Coatings Debris, walkdown guidelines, downstream effects – fuel, downstream effects – ECCS, other debris source terms. Major activities for 2009 include: complete evaluations of debris blockage effects on fuel and define and implement testing as required, issue BWR adaptation for WCAP-16406 (downstream effects ECCS), chemical effects (identify bounding cases, trial testing), debris source term activities. Major activities for 2010 include: confirmation of head-loss correlations by strainer

manufacturers, completion of plant walkdowns, completion of ECCS component evaluation.

An NRC manager, Mr. Jared Wermeil, inquired how the BWROG will share information with the NRC staff going forward. A representative of the BWROG stated that it is their intent to have regular working level meetings with the staff, on approximately a quarterly basis, to exchange information. Mr. Wermeil also asked that the BWROG share guidance documents with the staff, for informal feedback, before their issuance. Mr. Wermeil indicated that the NRC could help with the process and possibly streamline or reduce the effort required. The BWROG indicated they were agreeable to this approach because they would like to "get it right the first time." Mr. Wermeil advised the BWROG to involve the staff in issues, through phone calls or meetings, as they appear.

Mr. Grobe, NRC ADES, stated that the NRC would like to have a strong relationship with the BWR licensees going forward with this effort and that the NRC is willing to participate in related workshops. Mr. Grobe stated that, as an observation, the best solution would be the removal of debris sources and chemicals from their containments.

Mr. Grobe asked what the most significant challenge would be with the current plan. The BWROG stated it would be what is found during the individual walk downs of the plants.

A member of the public noted that debris source terms are plant specific for pressurized-water reactors and asked if there was any prospect of developing a generic source term for BWRs. A representative of the BWROG indicated this would not be possible and that each BWR plant would need to develop their plant specific debris source term. The BWROG indicated that they would like to have the next meeting in January 2009. The NRC managers stated they are pleased with the BWROG efforts thus far and are looking forward to continuing toward issue resolution. With this the meeting was adjourned.

Enclosure 1: List of Attendees
Enclosure 2: Meeting Agenda

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Enclosure 2: Meeting Agenda

ADAMS ACCESSION NUMBER: Package: ML083100265 Memo: ML083100271
Slides: ML083100274

OFFICE	LA:DPR:PGCB	PM:DPR:PGCB	BC:DPR:PGCB	BC:DCI:CSGB	BC:DSS:SSIB
NAME	CHawes	JGolla	MMurphy	AHiser	DHarrison
DATE	11/5/2008	11/5/2008	11/13/2008	11/12/2008	11/12/2008

OFFICIAL RECORD COPY

List of Attendees for September 10, 2008,
Meeting of BWROG and NRC

September 10, 2008	
Name	**Organization**
Jay Basken	Enercon
Ken McCall	GE-Hitachi/BWROG
Andy Kaufman	Continuum Dynamics
Tim Andreychek	Westinghouse
Don Rowland	Westinghouse
Doug Coleman	BWROG
Fariba Gartland	Areva
Gordon Wissinger	Areva
Steven Dolley	Platts
Phil Rush	MPR Associates
Bernie Saffell	PNNL
W. McConaghy	Toshiba
Peter Mast	Alion
Edward Holcomb	NPPD/Cooper Station
Gil Zigler	Alion
Aaron Smith	Enercon
Harry A. Goodman	Entergy
Jose L. Casillas	GE-Hitachi
Tom Morales	Energy Northwest/BWROG
Brian Davenport	Exelon Nuclear
Stuart Cain	Alden
David Schowalter	Alden
Fumihiko Ishibashi	Toshiba

Enclosure 1

List of Attendees for September 10, 2008,
Meeting of BWROG and NRC

September 10, 2008	
Name	**Organization**
Thomas Koshy	NRC
Jim Gilmer	NRC
Bruce Lin	NRC
Chris Jackson	NRC
Estvan Frankl	NRC
Allen Hiser	NRC
Ralph Architzel	NRC
Steve Smith	NRC
Matt Yoder	NRC
Rob Choromokos	Alion
Deann Raleigh	Scientec
Roberto Torres	NRC
George Thomas	NRC
Rob Tregoning	NRC
John Lubinski	NRC
Eric Miller	NRC
Hanry Wagage	NRC
William Krotiuk	NRC
Ervin Geiger	NRC
Fred Emerson	GE/BWROG
John Lehning	NRC
Jerry Wermiel	NRC
John Burke	NRC

Enclosure 1

List of Attendees for September 10, 2008,
Meeting of BWROG and NRC

September 10, 2008	
Name	**Organization**
Joe Golla	NRC
Mike Franklin (via telecom)	Progress Energy

Enclosure 1

MEETING AGENDA
U.S. NUCLEAR REGULATORY COMMISSION (NRC)
MANAGEMENT MEETING WITH BOILING WATER REACTOR OWNER'S GROUP (BWROG)

SEPTEMBER 10, 2008

1:00-1:10	Introductions and meeting purpose	NRC
1:10-2:10	Presentation of proposed industry actions	BWROG
2:10-3:15	Open discussion on next steps	NRC/BWROG
3:15-3:30	Opportunity for public comment	NRC/Public
3:30	Adjourn	

Enclosure 2

Memorandum to Donald Harrison from Joseph A. Golla

SUBJECT: MEETING SUMMARY OF PUBLIC MEETING WITH BWROG ON SEPTEMBER 10, 2008, TO DISCUSS STRAINER CLOGGING ISSUES

DISTRIBUTION:
PUBLIC
Donald Harrison
Ralph Landry
Joe Golla
Ralph Architzel
Martin Murphy
Jared Wermiel
Paul Klein
William Ruland
John Lehning
Leon Whitney
George Thomas (GXT)
Roberto Torres
John Grobe
Thomas Koshy
Hanry Wagage
Michael Snodderly
Christopher Jackson
Matthew Yoder
Allen Hiser
Michele Evans
Stephen Smith
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