

May 21, 2013

MEMORANDUM TO: Anthony J. Mendiola, Chief
Licensing Processes Branch
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

FROM: Joseph A. Golla, Project Manager */RA/*
Licensing Processes Branch
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

SUBJECT: CLOSED MEEING (AUDIT) OF BOILING WATER REACTOR
OWNER'S GROUP

DATE & TIME: Tuesday, June 25, 2013
1:00 p.m. - 4:30 p.m.

LOCATION: U.S. Nuclear Regulatory Commission (NRC)
One White Flint North, Room O-7B4
11555 Rockville Pike
Rockville, MD 20852

PURPOSE: The purpose of this audit is for the NRC staff to review draft and other technical information pertaining to the design of the test apparatus for in-vessel downstream effects testing in support of the NRC staff's review and approval of Licensing Topical Report BWROG-TP-11-002, Boiling Water Reactor Emergency Core Cooling Suction Strainer In-Vessel Downstream effects, NEDC-33608P. (Due to the proprietary nature of the material to be reviewed and discussed, this meeting is closed to the public.)

AUDIT CONTACT: Joseph A. Golla
(301) 415-1002
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REFERENCE: Licensing Topical Report BWROG-TP-11-002, Boiling Water Reactor Emergency Core Cooling Suction Strainer In-Vessel Downstream effects, NEDC-33608P (Redacted Version at Agencywide Documents Access and Management System (ADAMS) Accession No. ML110140481)

A. Mendiola

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PARTICIPANTS: Participants from the NRC include members of the Office of Nuclear Reactor Regulation (NRR).

NRC

John Lehning
Erv Geiger
Steve Smith
Joseph Golla, et al.

Industry

Ed Asbury, GEH/BWROG
Stuart Cain, Alden Research Lab
Jose Casillas, GEH/BWROG
Rob Choromokos, ANATECH
Dan Fouts, Entergy/BWROG
Harry Goodman, Entergy/BWROG
Ken McCall, GEH/BWROG
Ludwig Haber, Alden Research Lab, et al.

Project No. 691

Enclosure:
Audit Plan

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ADAMS Accession No.: ML13126A226

NRC-001

OFFICE	PLPB/PM	PLPB/LA	SSIB/BC	SNPB/BC	PLPB/BC	PLPB/PM
NAME	JGolla	DBaxley	SBailey	SWhaley	AMendiola	JGolla
DATE	05/15/2013	05/07/2013	05/15/2013	05/20/2013	05/21/2013	05/21/2013

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AUDIT PLAN
UNITED STATES NUCLEAR REGULATORY COMMISSION (NRC) AUDIT OF
BOILING WATER REACTOR OWNERS GROUP (BWROG) TECHNICAL INFORMATION
AND TEST PROCEDURE
JUNE 25, 2013

- a. Background: BWROG-TP-11-002, Rev. 2 (LTR-1) was written to address the in-vessel downstream effects (DSE) issue identified in a letter written by Mr. John Grobe, Associate Director for Engineering and Safety Systems, Office of Nuclear Reactor Regulation, to Mr. Richard Anderson, BWROG Executive Chairman, dated April 10, 2008, entitled "Potential Issues Related to Emergency Core Cooling Systems (ECCS) Strainer Performance At Boiling Water Reactors" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML080500540). The letter encouraged the BWROG to develop a comprehensive evaluation plan integrated with the efforts of the NRC to address in-vessel DSE and six other issues detailed in the letter.
- b. Regulatory Audit Basis: NRC regulations in 50.46 of Title 10 of the *Code of Federal Regulations* require that the ECCS have the capability to provide long-term cooling of the reactor core following a loss-of-cooling accident. That is, the ECCS must be able to remove decay heat, so that the core temperature is maintained at an acceptably low value for the extended period of time required by the long-lived radioactivity remaining in the core.
- c. Regulatory Audit Methodology: The audit will be conducted in a conference room at NRC Headquarters. Members of the BWROG and BWROG consultants will provide to the NRC staff, information regarding the test apparatus constructed at Alden Research Laboratory in Holden, Massachusetts which will be used for the LTR-1 testing. The BWROG and consultants will also provide information as needed to address questions that may arise from the NRC staff regarding the test procedure and aspects of analytical portions of LTR-1.
- d. Team Assignments: John Lehning of SNPB and Erv Geiger and Steve Smith of SSIB will conduct the audit. All three of these team members may inquire about the test apparatus and test procedure. Joseph Golla of PLPB will provide project manager support. Erv Geiger will function as team leader.
- e. Deliverables: A regulatory audit summary will be delivered within one month of the date of the audit (by July 25, 2013). Further requests of the BWROG by the NRC staff resulting from the audit will be treated as requests for additional information and be documented separately due to the proprietary nature of the material.

ENCLOSURE