

ArevaEPRDCPEm Resource

From: Carneal, Jason
Sent: Tuesday, November 17, 2009 8:26 AM
To: Tesfaye, Getachew
Subject: Audit Plan Sump Performance and Downstream Effects Nov 17 2009.doc
Attachments: Audit Plan Sump Performance and Downstream Effects Nov 17 2009.doc

Getachew:

Attached is the final audit plan for the sump performance and downstream effects audit to be held at AREVA Twinbrook this afternoon and tomorrow morning.

Could you transmit the final version to AREVA and add the attached file to ADAMS?

Thanks,

Jason

Hearing Identifier: AREVA_EPR_DC_RAIs
Email Number: 959

Mail Envelope Properties (77BCCD26C6050B42A72FE3939CF492ED155EE8421A)

Subject: Audit Plan Sump Performance and Downstream Effects Nov 17 2009.doc
Sent Date: 11/17/2009 8:25:46 AM
Received Date: 11/17/2009 8:26:29 AM
From: Carneal, Jason

Created By: Jason.Carneal@nrc.gov

Recipients:
"Tesfaye, Getachew" <Getachew.Tesfaye@nrc.gov>
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AUDIT PLAN TO REVIEW SELECTED AREAS RELATED TO
U.S. EPR FSAR CHAPTERS 6 AND 15, AND SUPPORTING TECHNICAL REPORTS

APPLICANT: AREVA NP, Inc.

APPLICANT CONTACT: Ronda Pederson

TIME: 1:00 pm to 4:00 pm on 11/17/2009
8:30 am to 1:00 pm on 11/18/2009

LOCATION: AREVA NP, Inc., Twinbrook Office,
Rockville, MD

REVIEWERS: Clinton Ashley (NRO, Audit Lead Sump)
Fred Forsaty (NRO, Audit Lead Downstream)
Christopher VanWert (NRO)
Vesselin Palazov (ISL, Inc.)
Jason Carneal (NRO)
Getachew Tesfaye (NRO)
Michael Snodderly (NRO)

BACKGROUND

AREVA NP, Inc. has submitted to the U.S. Nuclear Regulatory Commission (NRC) a Final Safety Analysis Report (FSAR) for its application of the U.S. Evolutionary Power Reactor (EPR) in December, 2007. NRC staff has initiated the design certification review on March 19, 2008. In order to address GSI-191, AREVA NP, Inc. submitted ANP-10293, "U.S. EPR Design Features to Address GSI-191 Technical Report" on February 11, 2008. Several requests for additional information (RAIs) have been submitted by NRC staff in Chapters 6 concerning sump strainer performance. A public meeting was held to address these issues in detail on July 8, 2009. As a result of the public meeting, frequent interactions were identified as necessary to support the review of these topics. An audit to inspect chemical effects testing facilities and obtain a status of related work was conducted on August 18, 2009 at AREVA facilities in Lynchburg, VA., and extended on August 21, 2009, for review of the debris generation calculation. On October 7, 2009, NRC staff audited the chemical effects test specification document at the AREVA offices in Rockville, MD. On October 27, 2009, NRC staff audited the head loss test protocol and downstream effects test plan. On October 29 and 30, 2009, NRC staff witnessed the downstream effects testing in Ewing, NJ. On November 12 and 13, 2009, NRC staff witnessed the chemical effects autoclave testing in Lynchburg, VA.

In order to cover important review areas handled by the NRO Containment and Ventilation Branch (SPCV) and the Reactor Systems, Code Performance and Review Branch (SRSB), the staff is proposing an audit that will be carried out at AREVA facilities in Rockville, MD. The review of additional technical documents, made available by

AREVA at its local office, will be facilitated by the presence of AREVA personnel at the audit. AREVA personnel will present technical topics to NRC staff and provide necessary technical information to NRC staff during documentation review. The audit is needed to support the resolution of long-standing issues and accomplishing the U.S. EPR review schedule in an efficient manner, particularly in reference to Standard Review Plan (SRP) Sections 6.2.2 and 15.6.5.

PURPOSE AND APPROACH

The purpose of this audit is to review several issues identified by the staff regarding sump strainer performance and downstream effects. The topics covered in the audit will include the downstream effects test report and the head loss testing and bypass testing plans.

To achieve the review goals in an efficient manner, the staff assembled an interdisciplinary audit team. The audit team will include experts from NRC and consulting organizations. To facilitate and expedite the work, it is foreseen that the audit will be attended by representatives from AREVA who will introduce the audit topics and provide supporting documents and technical evidence to the reviewers. The staff will document the audit findings in an audit report.

AUDIT ACTIVITIES AND SCHEDULE

The NRC staff will conduct the review over a period of one business day. NRC may request an ad-hoc extension of the audit at the same location if findings during the ongoing audit reveal the need for additional time. It is currently anticipated that additional time will be required to adequately address staff concerns. Such an extension will be requested before the meeting is adjourned on 11/17/2009 by the NRC staff responsible for the audit.

Following the audit, each technical reviewer and consulting organization will prepare a separate audit report with specific findings and will send the report to Jason Carneal by 12/04/2009. The NRC staff responsible for the audit will assemble and prepare a final audit report. The final report will be made available to all contributors for their concurrence by 12/11/2009. Any final notes by the contributors will be communicated to Jason Carneal no later than 12/10/2009.

A proposed agenda for the audit is presented in Attachment A. If necessary, any circumstances related to the conductance of the audit will be communicated to Jason Carneal (NRC) at 301-415-3813 or at Jason.Carneal@nrc.gov.

Agenda
NRC Sump Performance and Downstream Effects Audit
Pertaining to the Review of the U.S. EPR FSAR, Chapters 6 and 15
November 17 and 18, 2009
1700 Rockville Pike, Suite 400, Large Conference Room
Rockville, MD

Tuesday, November 17, 2009, AFTERNOON SESSION: AUDIT - proprietary

- 13:00-13:15** Entrance [AREVA]
- 13:15-16:00** Documentation Review: Downstream Testing Inputs ...[NRC/AREVA]
- 16:00** **Adjourn**

Wednesday, November 18, 2009, MORNING SESSION: AUDIT - proprietary

- 8:30-8:35** Entrance / Opening Comments [AREVA]
- 8:35-11:45** Documentation Review: Head Loss
and Bypass Test Plan.....[NRC/AREVA]
- 11:45-12:45** Hold-Up Volume (Upstream Effects) Discussion[NRC/AREVA]
- 12:45-13:00** Audit Exit / Summary[NRC/AREVA]
- 13:00** **Adjourn***

* NRC staff request that the documentation reviewed at this audit be made available for further review at the AREVA Twinbrook offices after the conclusion of the meeting.