

August 22, 2016

MEMORANDUM TO: Kevin Hsueh, Chief  
Licensing Processes Branch  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation

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

SUBJECT: SUMMARY OF JULY 14, 2016, CLOSED MEETING ON PWROG-15060,  
"PUMP SUCTION GAS ACCUMULATION OPERABILITY CRITERIA  
GUIDANCE"

On July 14, 2016, U.S. Nuclear Regulatory Commission (NRC) staff met with representatives from the Nuclear Energy Institute (NEI), the Boiling Water Reactor Owners Group (BWROG), and the Pressurized Water Reactor Owners Group (PWROG). The purpose of the meeting was to discuss the review status and issues related to PWROG-15060, "Pump Suction Gas Accumulation Operability Criteria Guidance" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML16147A079). Information related to the meeting including presentations and the attendees list is provided in the attachment.

During the meeting, the NRC staff presented information on the status of its review of PWROG-15060 and on its requests for additional information (RAI) questions on PWROG-15060 (ADAMS Accession No. ML16166A323). During the meeting, discussions were held to provide clarifications of the information being presented and on the RAI questions. Publically-available copies of the NRC staff presentation and supporting meeting material, including the RAI questions, can be found in ADAMS Accession Nos. ML16193A119 and ML16166A323.

There were no actions from the meeting.

Enclosure:  
As stated

Project No. 689

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**ADAMS Accession Nos.: Package (ML16194A032); Summary (ML16208A003);** \*concurrent via email **NRC-001**  
**# See previous Concurrence**

OFFICE	DPR/PLPB/PM#	DPR/PLPB/LA*	NRR/DSS/SRXB#	DPR/PLPB/BC3	DPR/PLPB/PM
NAME	JHolonich	DHarrison	EOesterle	KHsueh	JHolonich
DATE	7/26/2016	8/8/2016	8/10/2016	8/19/2016	8/22/2016

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## Meeting Summary

### July 14, 2016, Meeting between the U.S. Nuclear Regulatory Commission (NRC) staff and the Nuclear Energy Institute (NEI) Gas Accumulation Team regarding PWROG-15060 Topical Report Review

#### Meeting Type:

Closed meeting due to discussion of proprietary information.

#### Location:

Westinghouse Rockville Office

#### Time:

9:00 am – 2:30 pm

#### Purpose:

The purpose of this meeting was to discuss the review status, initial requests for additional information questions, and other technical topics related to PWROG-15060, "Pump Suction Gas Accumulation Operability Criteria Guidance."

#### Summary:

The meeting commenced with a safety briefing, introductions, and opening remarks by both the NRC staff and NEI team. Next, the NRC staff presented prepared remarks (Non-Proprietary Agencywide Documents Access and Management System Accession No. ML16193A087) on the history of the gas management topic, the proposed schedule of review, and technical matters.

During the discussion of technical matters, the NRC staff received clarification of various input used in correlations presented in PWROG-15060. The NRC staff presented a correlation comparison to data. The staff learned that the correlation comparisons required additional information to complete appropriately. The industry explained in greater detail how the correlations were determined and how to apply them to test data.

In the acceptance review, request for additional information questions were transmitted to NEI. The industry representatives prepared draft responses which were discussed.

During the discussions, a clarifying statement was made about the use of the pump roadmap methodology. The pump roadmap methodology can be used to assess operability, however, it is up to the individual licensee to evaluate their system and determine where conservatism and margins exist. The licensees can look to Sections 8.2 and 8.3 of the PWROG-15060 report for guidance.

Enclosure

The industry expressed a preference and a willingness for an audit in order to demonstrate the use of correlations and methodology

The NRC headquarters staff support for review of a Region II open issue regarding gas transport methodology was discussed. The NRC staff estimated a report could be provided to Region II by September 30, 2016.

The following schedule goals were discussed:

Industry Response to Acceptance Review RAI Questions: August 1, 2016

Audit Plan: August 22, 2016

Audit: August 30-September 1, 2016

Additional RAI Questions (from audit if necessary) Transmitted to Industry: September 15, 2016

Industry RAI Question Response: October 15, 2016

Draft SE to Industry for Review: October 31, 2016

Draft SE Response from Industry: November 30, 2016

Final SE Issued: December 31, 2016

“-A” Topical Report Issued: February 1, 2017

Additionally, the PWROG-15060 Topical Report will be endorsed by the NRC using a Regulatory Issue Summary to be issued after the “-A” Topical Report is issued.

The NRC staff plans to prepare a regulatory guide or other appropriate documentation to summarize gas accumulation topics discussed in the NEI 09-10 endorsed guidance and the ongoing PWROG-15060 Topical Report review in addition to gas accumulation topics not addressed in those documents.

The final objective is to close the Gas Management Action plan by December 31, 2017.

**List of Attendees:**

<b>Name</b>	<b>Affiliation</b>	<b>E-mail Address</b>
Eric Oesterle	NRC	Eric.Oesterle@nrc.gov
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