



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

October 11, 2016

LICENSEES: Entergy Nuclear Operations, Inc.

FACILITIES: Palisades Nuclear Plant

SUBJECT: SUMMARY OF SEPTEMBER 28, 2016, PUBLIC MEETING WITH ENTERGY NUCLEAR OPERATIONS, INC. REGARDING THE PROPOSED CLOSURE PLAN FOR GENERIC SAFETY ISSUE 191, "ASSESSMENT OF DEBRIS ACCUMULATION ON PRESSURIZED WATER REACTOR (PWR) SUMP PERFORMANCE" (CAC NO. MF8386)

On September 28, 2016, a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and representatives of Entergy Nuclear Operations, Inc. (ENO) and their contractor at NRC Headquarters, Rockville, Maryland. The purpose of the meeting was to discuss the licensee's closure plan for generic safety issue (GSI) 191, "Assessment of Debris Accumulation on Pressurized Water Reactor (PWR) Sump Performance," at Palisades Nuclear Plant (PNP). The meeting notice and agenda are located in the Agencywide Documents Access and Management System (ADAMS) at Accession No. ML16251A086.

The licensee presented information on the background, basis, and content of the proposed application, which is available at ADAMS Accession No. ML16277A621.

The licensee plans to use the "Risk over Deterministic" (RoverD) closure method and highlighted the different process steps required to execute this closure method. This included the use of the CASA Grande software, thermal hydraulics analysis, probabilistic risk assessment, testing, and licensing actions. The NRC staff queried the licensee about several aspects of the proposed closure plan and provided feedback. The staff was most interested in the methodology that would be used to identify limiting debris loads because of the variety of materials and the large amounts of fiber and calcium silicate in the PNP containment. The NRC staff had a number of questions related to the test methodology proposed by the licensee to estimate chemical effects. The presentation indicated that initial analysis from corrosion testing at Ohio State University predicted about 25 percent of the amount of chemical precipitates that currently approved methods predict. The staff stated that any plant-specific aluminum corrosion results need to be evaluated in the context of the available knowledge base, including WCAP-16530, "Evaluation of Post-Accident Chemical Effects in Containment Sump Fluids to Support GSI-191," WCAP-17788, "Comprehensive Analysis and Test Program for GSI-191 Closure (PA-SEE-1090)," Argonne National Lab results, and other plant specific tests. The staff acknowledged the importance of retaining some conservatism in the overall chemical effects evaluation to account for uncertainties. The licensee intends to request future pre-application meetings with the NRC staff to discuss chemical corrosion findings, strainer testing methodology, and the content of the associated license amendment request. The licensee invited the NRC staff to visit the corrosion test facility at Ohio State University. Ultimately, the licensee plans to submit a license amendment request in the fourth quarter of 2018. No regulatory decisions were made at the meeting.

The public was invited to listen to the meeting and was given an opportunity to communicate with the NRC after the business portion, but before the meeting was adjourned. Members of the public participated by telephone. All comments and questions were addressed before adjourning the meeting. No public meeting feedback forms were received.

A list of meeting attendees is enclosed.

Please direct any inquiries to me at 301-415-1530, or Jennivine.Rankin@nrc.gov.

A handwritten signature in black ink that reads "Jennivine Rankin". The signature is written in a cursive, flowing style.

Jennivine K. Rankin, Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-255

Enclosure:
List of Attendees

cc w/encl: Distribution via Listserv

LIST OF ATTENDEES

SEPTEMBER 28, 2016, PUBLIC MEETING

WITH ENERGY NUCLEAR OPERATIONS, INC.

GENERIC SAFETY ISSUE 191 CLOSURE PLAN

FOR PALISADES NUCLEAR PLANT

Licensee Attendees*

A. Hazelhoff, Entergy Nuclear Operations, Inc. (ENO)
O. Gustafson, ENO
S. Mongeau, ENO
B. Letellier, Alion Science
J. Leavitt, Alion Science

U.S. Nuclear Regulatory Commission

P. Klein, NRR/DE/ESGB
M. Yoder, NRR/DE/ESGB
S. Smith, NRR/DSS/SSIB
V. Cusumano, NRR/DSS/SSIB
A. Russell*, NRR/DSS/SSIB
C. Pfefferkorn, NRR/DRA/APLA
J. Peralta, NRR/DE/ESGB
G. Makar, NRO/DEIA/MCB
J. Rankin, NRR/DORL/LPL3-1

Public

E. Fulhage*
M. Keegan*
T. Sande*
E. Federline*
M. Lewis*
J. Hawley*
J. Tezak*

*by audiobridge. Several other licensee staff from ENO also participated by audiobridge.

Enclosure

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/RA/

Jennivine K. Rankin, Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

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GMakar, NRO
ARussell, NRR

ADAMS Accession Nos.:
Meeting Notice ML16251A086
Summary ML16277A677
Handouts ML16277A621

OFFICE	NRR/DORL/LPL3-1/PM	NRR/DORL/LPL3-1/LA	NRR/DE/ESGB/BC
NAME	JRankin	SRohrer	JPeralta
DATE	10/04/16	10/04/16	10/04/16
OFFICE	NRR/DORL/LPL3-1/BC	NRR/DORL/LPL3-1/PM	
NAME	DWrona	JRankin	
DATE	10/11/16	10/11/16	

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