

August 13, 2007

LICENSEE: PSEG NUCLEAR, LLC

FACILITY: HOPE CREEK GENERATING STATION

SUBJECT: SUMMARY OF THE JUNE 28, 2007, MEETING WITH PSEG NUCLEAR, LLC, REGARDING AN APPLICATION FOR AN EXTENDED POWER UPRATE FOR THE HOPE CREEK GENERATING STATION REGARDING DRYER ANALYSIS ACCEPTANCE CRITERIA (TAC NO. MD3002)

On June 28, 2007, a Category 1 public meeting was held between the Nuclear Regulatory Commission (NRC) and representatives of PSEG Nuclear, LLC (PSEG, the licensee) at NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of the meeting was to discuss the acceptance criteria for boiling-water reactor (BWR) Steam Dryer predictive load under Extended Power Uprate (EPU) conditions. A list of attendees is provided as Enclosure 1 and Enclosure 2 lists the meeting agenda.

By letter dated September 18, 2006 (Agencywide Documents Access and Management System Accession Number ML062680451) PSEG submitted an amendment request for an EPU at Hope Creek. A technical issue related to an EPU for BWRs is the acoustic loading on the plant steam dryers and steam lines under increased steam flow conditions. Licensees are required to submit analysis that predict under EPU operating conditions that increased pressure loading on the installed, modified or newly constructed dryers will not exceed the American Society of Mechanical Engineers (ASME) fatigue stress allowable limits. The NRC staff has not generically approved a specific methodology for predicting EPU dryer loading. However, the NRC staff requires that a licensee provide justification of analysis model predictions based on projected plant data at EPU conditions as power ascension progresses from current license thermal power following an EPU approval.

During the meeting, the NRC staff restated the audit results. The results included: (1) PSEGs agreement to forego its reliance on the Scale Model Test (SMT) as a quantitative predictive tool to project the dryer performance during power uprate, (2) address the staff's concern with the acoustic circuit model's (ACM) ability to predict pressure loads at particular frequency ranges, (3) to revise its evaluation, if necessary, using the latest ACM model (Version 4) rather than an older version, (4) the staff noted that the limit curves at EPU, proposed by the PSEG, needed to rely on plant data rather than the SMT, and finally (5) PSEGs agreement to address other findings regarding their steam dryer finite element model parameters, used to calculate weld stresses, and bias error and random uncertainty assumptions.

A specific question was raised regarding the acceptable "margin" for the analytical work related to the steam dryer evaluation, when compared to the recent Vermont Yankee Safety Evaluation on the same subject. The NRC staff clarified that a specific quantitative value for acceptable margin for the steam dryer analysis has not been established; however, a justification should be provided for the uncertainty assumption in each aspect of the analysis to insure a qualitative assessment could be made regarding its acceptability.

By extrapolating the analysis at EPU conditions, the licensee will demonstrate that the associated ASME Code fatigue stress limits will be met. Then, the licensee will establish a startup plan to analyze data collected during EPU power ascension to confirm that the stress limits is not exceeded.

Members of the public were in attendance. Public Meeting Feedback forms were not received.

Please direct any inquiries to me at 301-415-N/A or jgl1@nrc.gov.

/ra/

John G. Lamb, Senior Project Manager
Plant Licensing Branch I-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-354

Enclosures:

1. List of Attendees
2. Meeting Agenda

cc w/ encls: See next page

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ADAMS ACCESSION NO.: Meeting Summary - ML071990528

OFFICE	DORL/LPL1-2:SH	DORL/LPL1-1:LA	DORL/LPL1-2:PM	EMCB:BC	DORL/LPL1-2:BC
NAME	CPetrovitch	SLittle	JShea	KManoly	HChernoff
DATE	7/19/07	7/19/07	7/23/07	8/10/07	8/13/07

OFFICIAL RECORD COPY

Hope Creek Generating Station

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ATTENDANCE FOR PUBLIC MEETING WITH PSEG ON JUNE 28, 2007

NAME	ORGANIZATION
Patrick Hiland	NRR\DE
Kamal Manoly	NRR\DE
Thomas Scarbrough	NRO\DE
Harold Chernoff	NRR\DORL
Eva Brown	NRR\DORL
Paul Davison	PSEG
Shelly Kugler	PSEG
Pam Cowan	PSEG
Paul Duke	PSEG
George Barnes	PSEG
Morie Gillman	TVA
Tony Langley	TVA
J. D. Wolcott	TVA
John G. Lamb	NRC OEDO
Jerry Humphreys*	State of New Jersey
* Conference Call	

MEETING AGENDA
EXTENDED POWER UPRATE
HOPE CREEK GENERATING STATION
PSEG NUCLEAR, LLC
DOCKET NO. 50-354

Schedule

Discussion Topics

June 28, 2007

11:00 a.m. - 11:15 a.m.	Introductory Remarks/Introductions
11:15 a.m. - 11:45 a.m.	<ul style="list-style-type: none">- Licensee view of acceptance criteria.- Review of docketed analysis to date.- Ongoing Dryer re-analysis based on staff audit input.- Power Ascension Plan.- Schedule plan for submittal.
11:45 a.m. - 12:00 p.m.	NRC staff questions and comments.