

September 11, 2003

LICENSEE: Arizona Public Service Company (APS)

FACILITIES: Palo Verde Nuclear Generating Station

SUBJECT: MEETING WITH REPRESENTATIVES OF ARIZONA PUBLIC SERVICE  
COMPANY FOR PALO VERDE NUCLEAR GENERATING STATION,  
UNIT 2 (TAC NO. MB3696)

A meeting was held on Thursday, June 26, 2003, between the Nuclear Regulatory Commission (NRC) staff and the licensee for Palo Verde Nuclear Generating Station, Unit 2 (PVNGS-2). The meeting was held at the request of the licensee. The notice for the meeting was issued on June 2, 2003, and stated that there may be discussions on proprietary information presented by the licensee during the meeting.

Enclosure 1 is the list of attendees. Enclosure 2 is the handout from the licensee.

#### BACKGROUND

The licensee submitted an application dated December 21, 2001, to amend the Technical Specifications for PVNGS-2 in support of the replacement steam generators and subsequent operation at an increased maximum power level of 3990 MWt, a 2.94 percent increase from the current 3876 MWt. The application was for a power uprate (PUR) of 2.94 percent.

In the staff's review of the licensee's application, as supplemented by letters dated March 13, August 27, August 29, September 4, September 6, October 11, December 10, and December 23, 2002, and March 11, 2003, it identified a concern related to the small break loss-of-coolant accident (SBLOCA) analyses for PVNGS-2 at the increased power level of 3990 MWt. In its submittal dated October 11, 2002, the licensee provided results of the SBLOCA analyses using CENPD-137, Supplement 2-P-A, "Calculative Methods for the ABB CE Small Break LOCA Evaluation Model," dated April 1998 (the S2M methodology). This S2M methodology was approved for use by PVNGS-2 in Amendment 140 issued March 12, 2002. The amendment added CENPD-404-P-A, "Implementation of ZIRLO Cladding Material in CE Nuclear Power Fuel Assembly Designs," dated September 12, 2001, which includes the S2M methodology, to the core operating limits report of the Technical Specifications. This S2M methodology superseded the previously approved SBLOCA methodology for PVNGS-2 in CENPD-137, Supplement 1-P-A, "Calculative Methods for the CE Small Break LOCA Evaluation Model," dated January 1977 (the S1M methodology).

The NRC staff's concern was that the approval of the S2M methodology did not cover power levels above the current 3876 MWt, for PVNGS-2 up to the proposed power level of 3990 MWt.

The licensee requested the meeting to address the NRC staff's concern.

## MEETING SUMMARY

The agenda for the meeting was the following:

- Introduction
- Westinghouse S2M Methodology for SBLOCA
- Information Needed by the Staff
- NRC staff caucus
- Conclusion

The introduction by the licensee is given in Enclosure 2. The licensee provided a background to the meeting, its goals for the meeting, and what it believed was the success path to achieving the stated goals.

The licensee presented proprietary information addressing the NRC staff's review of the S2M methodology, which was approved in the NRC staff's letter dated December 16, 1997. The licensee stated that the information is from CENPD-137, Supplement 2-P-A, the proprietary topical report on the S2M methodology. The differences between the S1M and S2M methodologies, and the sensitivity study comparing the two methodologies that was used during the NRC staff's review of the S2M methodology were presented. The specific results of the sensitivity study for (1) the standard plant in CENPD-137, Supplement 2-P-A, at the power level in the topical report, which is less than the PVNGS-2 PUR, and (2) PVNGS-2 at the PUR power level were also presented.

The NRC staff did not accept the proprietary information from the licensee because it did not want the meeting to be the means by which the information addressing its concern on S2M at the PVNGS-2 PUR power level is submitted on the PVNGS-2 docket. The NRC staff, however, did conclude from the meeting that the information presented in the meeting did address its concern about the use of the S2M methodology for the PVNGS-2 PUR. It requested that the licensee submit the information so that the staff could address the concern in the Safety Evaluation for the proposed amendment. The licensee agreed to submit the information.

The licensee completed its presentation and the meeting was adjourned.

**/RA/**

Jack Donohew, Senior Project Manager, Section 2  
Project Directorate IV  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-529

Enclosures: 1. List of Meeting Attendees  
2. Licensee Handout

cc w/encls: See next page

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**/RA/**

Jack Donohew, Senior Project Manager, Section 2  
Project Directorate IV  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

### DISTRIBUTION:

Docket No: 50-529

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2. Licensee Handout

cc w/encls: See next page

PUBLIC  
PDIV-2 Reading  
RidsNrrDlpm (TMarsh/ELeeds)  
RidsNrrDlpmLpddiv (HBerkow)  
SDembek  
RidsNrrLAMMcAllister  
FAkstulewicz (NRR/DSSA/SRXB)  
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RidsAcrcAcnwMailCenter  
RidsRgn4MailCenter (AHowell)  
JUhle (NRR/DSSA/SRXB)  
FOrr (NRR/DSSA/SRXB)  
LSmith, RIV  
TMensah

Package No.: ML032541147

Handout: ML031880484

ADAMS Accession No.: ML032541113

NRC-001

OFFICE	PDIV-2/PM	PDIV-1/LA	SRXB	PDIV-2/SC
NAME	JDonohew:sab	MMcAllister	JUhle	SDembek
DATE	9/9/2003	9/5/03	9/8/03	9/10/03

OFFICIAL RECORD COPY

DOCUMENT NAME: C:\ORPCheckout\FileNET\ML032541113.wpd

LIST OF ATTENDEES AT MEETING OF JUNE 26, 2003

EXPECTATIONS OF AND INFORMATION NEEDED BY NRC STAFF

CPC UPGRADE LICENSE AMENDMENT REQUEST REVIEW

<u>NAME</u>	<u>AFFILIATION</u>
J. Donohew	NRC/NRR/PDIV-2
H. Berkow	NRC/NRR/PDIV
B. Benney	NRC/NRR/PDIV-2
F. Akstulewicz	NRC/NRR/SRXB
J. Uhle	NRC/NRR/SRXB
F. Orr	NRC/NRR/SRXB
S. Bauer	APS
T. Weber	APS
P. Crawley	APS
K. Greenspan	APS
M. Golbabai	Westinghouse
E. Jageler	Westinghouse
M. Gancavz	Westinghouse
J. Cleary	Westinghouse

Where:

APS	= Arizona Public Service Company
NRC	= Nuclear Regulatory Commission
NRR	= Office of Nuclear Reactor Regulation
PDIV-2	= Project Directorate IV, Section 2
SRXB	= Reactor Systems Branch

LICENSEE HANDOUT FOR JUNE 26, 2003, MEETING

ADAMS ACCESSION NO. ML031880484

Palo Verde Generating Station, Unit 2

cc:

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