

May 1, 2006

MEMORANDUM TO: David Terao, Branch Chief
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

FROM: Mel B. Fields, Senior Project Manager **/RA/**
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

SUBJECT: FORTHCOMING MEETING WITH ARIZONA PUBLIC SERVICE
COMPANY REGARDING PALO VERDE NUCLEAR GENERATING
STATION, UNIT 1 SHUTDOWN COOLING LINE VIBRATION ISSUE

DATE & TIME: Thursday, May 11, 2006
8:00 a.m. - 12:00 noon

LOCATION: U.S. Nuclear Regulatory Commission (NRC)
Two White Flint North
11555 Rockville Pike, Room O 3 B-4
Rockville, Maryland 20852

PURPOSE: To discuss the higher-than-normal vibration levels observed in the
Train A shutdown cooling line and valve SI-651, and Arizona Public
Service Company's plans for resolving this issue (see attached agenda).

CATEGORY: * This is a Category 1 Meeting. The public is invited to observe this
meeting and will have one or more opportunities to communicate with the
NRC after the business portion, but before the meeting is adjourned.

PARTICIPANTS: Participants from the NRC include members of the Office of Nuclear
Reactor Regulation.

<u>NRC</u>	<u>Arizona Public Service Company</u>
K. Manoly	Carl Churchman
D. Terao	Scott Bauer
M. Fields, et al.	Mo Karbassian
	Winston Borrero
	Jeff Brown

Docket No. STN 50-528

Enclosure: Agenda

cc w/encl: See next page

MEETING CONTACT: Mel B. Fields, NRR
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* Commission's Policy Statement on "Enhancing Public Participation in NRC Meetings," (67 FR 36920), May 28, 2002

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DATE	5/1/06	5/1/06	5/1/06

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AGENDA

MEETING WITH ARIZONA PUBLIC SERVICE COMPANY

SHUTDOWN COOLING LINE VIBRATION ISSUE

PALO VERDE NUCLEAR GENERATING STATION, UNIT 1

MAY 11, 2006

Background

During power ascension of Palo Verde Nuclear Generating Station (Palo Verde), Unit 1 in December 2005 following a refueling outage in which the steam generators were replaced, the vibration level of the Train A shutdown cooling (SDC) line and valve SI-651 was found to reach approximately two inches per second (ips) at approximately 32% rated thermal power. In order to prevent exceeding the SDC line vibration administrative limit of 2.0 ips and design limit of 2.25 ips, power ascension was stopped. Since that time, Unit 1 reactor power was limited to keep the SDC line vibration within the administrative limit. The SDC line vibration is hypothesized by Arizona Public Service Company to be the result of a flow-induced excitation of the fundamental acoustic frequency of the SDC suction line. The system is believed to be excited by a pressure disturbance originating at the suction line nozzle resulting from a coupled interaction between instabilities within the flow shear layer over the nozzle and the refracted standing wave in the line. Palo Verde is currently defueled and undergoing repair activities to correct the vibration problem.

Introductions

8:00 a.m.

History of SI-651 Vibration Issue

Proposed Modifications

Final Corrective Action

Closing Remarks

Public Comment/Questions

Adjourn

12:00 noon

Palo Verde Generating Station, Unit 1

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March 2006

Palo Verde Generating Station, Unit 1

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March 2006