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LEVINE,J.M. Arizona Public Service Co. (formerly Arizona Nuclear Power
RECIP.NAME RECIPIENT AFFILIATION
Document Control Branch (Document Control Desk)

SUBJECT: Special Rept 3-SR-93-001:on 930204,reactor trip occurred & main feedwater pump A experienced rapidly decreasing pump speed.Valid actuation of SI actuation sys & containment isolation actuation sys also occurred.Evaluation underway.

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PALO VERDE NUCLEAR GENERATING STATION
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JAMES M LEVINE
VICE PRESIDENT
NUCLEAR PRODUCTION

192-00827-JML/TRB/KR
February 9, 1993

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Mail Station P1-37
Washington, D.C. 20555

Dear Sirs:

Subject: **Palo Verde Nuclear Generating Station (PVNGS)**
Unit 3
Docket No. STN 50-530 (License No. NPF-74)
Special Report 3-SR-93-001
File: 93-020-404

Attached please find Special Report 3-SR-93-001, prepared and submitted pursuant to Emergency Plan Implementing Procedure (EPIP-03). This report discusses a condition requiring the declaration of a NOTIFICATION OF UNUSUAL EVENT due to an event resulting in a Safety Injection Actuation System (SIAS) actuation, caused by a valid low pressurizer pressure. A copy of the Special Report is being forwarded to the Regional Administrator, NRC Region V.

If you have any questions, please contact T. R. Bradish, Manager, Nuclear Regulatory Affairs, at (602) 393-5421.

Sincerely,

James M Levine

JML/TRB/KR

Attachment

cc: W. F. Conway (all with attachment)
J. B. Martin
J. A. Sloan

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PALO VERDE NUCLEAR GENERATING STATION UNIT 3
NOTIFICATION OF UNUSUAL EVENT

Docket No. 50-530

License No. NPF-74

Special Report No. 3-SR-93-001

This Special Report is being provided pursuant to Emergency Plan Implementing Procedure (EPIP-03), "Notification of Unusual Event Implementing Actions" to report a condition requiring the declaration of a Notification of Unusual Event due to a Safety Injection Actuation System (SIAS) actuation, caused by a valid low pressurizer pressure for Palo Verde Unit 3 at approximately 1546 MST on February 4, 1993. The Notification of Unusual Event was terminated at approximately 1700 MST on February 4, 1993.

On February 4, 1993, at approximately 1523 MST, Palo Verde Unit 3 was in Mode 1 (POWER OPERATION) operating at approximately 100 percent power when a reactor trip occurred. Prior to the reactor trip, at approximately 1522 MST, the control board in Unit 3 indicated that Main Feedwater Pump (MFWP) A was experiencing a rapidly decreasing pump speed. Before Control Room personnel could respond to MFWP A's unstable operation by tripping MFWP A, the reactor tripped on low steam generator level for Steam Generator Number 2 (SG-2). Immediately following the reactor trip, a low steam generator level alarm came in for SG-1, followed by the actuation of both Auxiliary Feedwater Actuation Systems (AFAS-1 and AFAS-2) on low-low steam generator level for both steam generators. The Steam Bypass Control System responded as designed to control the secondary side pressure. The injection of auxiliary feedwater to the steam generators, combined with the quick-opening of the steam bypass control valves (SBCVs), caused reactor coolant system temperature to decrease which resulted in a pressure decrease below the low pressurizer pressure setpoint of 1837 psia. A valid actuation of the Safety Injection Actuation System (SIAS) and the Containment Isolation Actuation System (CIAS) occurred due to low pressurizer pressure. The Emergency Plan Implementing Procedures require the declaration of a Notification of Unusual Event (NUE) for an event resulting in Safety Injection Actuation System (SIAS) actuations, caused by a valid low pressurizer pressure. By approximately 1546 MST, on February 4, 1993, the appropriate state and local agencies were notified of the condition requiring the declaration of a Notification of Unusual Event (i.e., event resulting in SIAS actuations). The Nuclear Regulatory Commission (NRC) Operations Center was notified at approximately 1550 MST on February 4, 1993.

At approximately 1551 MST, Control Room personnel commenced to shutdown Trains A and B Containment Spray pumps, High Pressure Safety Injection pumps, and Low Pressure Safety Injection pumps. Unit 3 was stabilized in Mode 3 (HOT STANDBY). The Shift Supervisor diagnosed the event as an uncomplicated reactor trip.

At approximately 1700 MST on February 4, 1993, the Notification of Unusual Event was terminated in accordance with EPIP-03. By approximately 1709 MST on February 4, 1993, the appropriate state and local agencies and the NRC Operations Center were notified of the termination of the Notification of Unusual Event. By approximately 1811 MST, the SIAS, CIAS, AFAS-1, and AFAS-2 were reset.

Further investigation into the circumstances surrounding this event is being performed in accordance with the PVNGS Incident Investigation Program. The results of the investigation will be reported pursuant to 10CFR50.73.