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SUBJECT: Special Rept 2-SR-89-002:on 890216,steam generator 1
 economizer valve positioner failure caused oscillation.

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 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:Standardized plant.

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NOTES: 1 1

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Arizona Nuclear Power Project

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192-00453-JGH/TDS/JEM
February 21, 1989

U. S. Nuclear Regulatory Commission
NRC Document Control Desk
Washington, D.C. 20555

Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 2
Docket No. STN 50-529 (License No. NPF-51)
Special Report 2-SR-89-002
File: 89-020-404

Attached please find Special Report 2-SR-89-002 prepared and submitted pursuant to Emergency Plan Implementing Procedure -03. This report discusses a NOTIFICATION OF UNUSUAL EVENT due to a Safety Injection System Actuation.

If you have any questions, please contact T. D. Shriver, Compliance Manager at (602) 393-2521.

Very truly yours,

J. G. Haynes
Vice President
Nuclear Production

JGH/TDS/JEM/kj

Attachment

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Palo Verde Nuclear Generating Station Unit 2

Notification of Unusual Event

Docket No. 50-529

License No. NPF-51

Special Report No. 2-SR-89-002

This Special Report is being provided pursuant to Emergency Plan Implementing Procedure (EPIP)-03 (Notification of Unusual Event Implementing Actions) to report the declaration of a Notification of Unusual Event (NUE) for Palo Verde Unit 2. The NUE was declared pursuant to EPIP-02 (Emergency Classification) as a result of the initiation of a Safety Injection Actuation Signal (SIAS) on low pressurizer pressure.

On February 16, 1989 Palo Verde Unit 2 was operating at 100 percent power in Mode 1 (POWER OPERATION) when a failure of the Steam Generator number 1 economizer valve positioner caused a feedwater system oscillation. The economizer valve indicated closed in the Control Room. The secondary side control room operator attempted to terminate the transient by placing Steam Generator Number 1 economizer valve in manual and opening the valve to approximately 17 percent. At approximately 0345 MST, immediately following the economizer valve positioning, the reactor tripped on low level in Steam Generator Number 1, and a subsequent Auxiliary Feedwater Actuation System-1 (AFAS) actuation occurred. Following the reactor trip, the economizer valve remained open in manual causing excessive feedwater flow to Steam Generator Number 1, overcooling of the Reactor Coolant System (RCS), and a decrease in RCS pressure, which resulted in a concurrent Safety Injection Actuation Signal (SIAS) and Containment Isolation Actuation Signal (CIAS) approximately 30 seconds later. Following the SIAS/CIAS, Steam Generator Number 1 level increased to the high steam generator level setpoint, and at approximately 0347 MST, a Main Steam Isolation Signal (MSIS) actuation resulted. Following the MSIS, feedwater flow through the economizer valve was automatically isolated. The class 1E auxiliary feedwater system continued to provide feedwater to the steam generators as necessary.

At approximately 0352 MST on February 16, 1989 a Notification of Unusual Event (NUE) was declared. At approximately 0400 MST on February 16, 1989 the appropriate state and local agencies were notified via the Notification and Alert Network (NAN). The Nuclear Regulatory Commission (NRC) Operations Center was notified at approximately 0444 MST on February 16, 1989.

Stable conditions were achieved and the NUE was terminated at 0449 MST on February 16, 1989. The event did not result in any challenges to fission product barriers or result in any releases of radioactive materials. A Licensee Event Report will be submitted within 30 days of the event in accordance with 10CFR50.73.

2-1-79