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SUBJECT: Special R 2-SR-89-005:on 890712,notification of unusual event declared on low pressurizer pressure.

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Arizona Public Service Company

PALO VERDE NUCLEAR GENERATING STATION
P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

192-00498-JGH/TDS/JJN
July 14, 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-89-005
File: 89-020-404

Attached please find Special Report 2-SR-89-005 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/JJN/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-89-005

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 July 12, 1989 Palo Verde Unit 2 was operating at 100 percent power in Mode 1 (POWER OPERATION) when a load shed signal on 13.8 KV Bus, 2E-NAN-S02, resulted in Reactor Coolant Pumps (RCPs) 1B and 2B being deenergized. As a result of the partial loss of forced circulation, at approximately 2212 MST the reactor tripped on low DNBR which resulted in a turbine trip. Following the reactor and turbine trip, the Reactor Coolant System (RCS) pressure decreased as expected. However, additional depresurization occurred due to less than nominal decay heat and RCP heat generation, greater than nominal pressurizer spray valve leakage, and three pressurizer heaters being out of service. At approximately 2213 MST the RCS pressure decreased to the Safety Injection and Containment Isolation setpoint. The Safety Injection and Containment Isolation Actuation resulted in the actuation of the "A" and "B" Diesel Generator Start Sequencer. All Engineered Safety Features actuated as designed.

At approximately 2223 MST on July 12, 1989, a Notification of Unusual Event (NUE) was declared. At approximately 2237 MST on July 12, 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 2308 MST on July 12, 1989.

Stable conditions were achieved and the NUE was terminated at approximately 2322 MST on July 12, 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 which will provide further details concerning the load shed from 2E-NAN-S02, the decrease of RCS pressure below the safety injection and containment isolation actuation setpoint, and the greater than nominal pressurizer spray valve leakage.