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SUBJECT: Special Rept 3-SR-89-002: on 890303, complete loss of offsite power to implant non-class 1E electrical busses occurred.

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NOTES: Standardized plant.

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192-00455-JGH/TDS/DAJ

March 8, 1989

U. S. Nuclear Regulatory Commission
NRC Document Control Desk
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-89-002
File: 89-020-404

Attached please find Special Report 3-SR-89-002 prepared and submitted pursuant to Emergency Plan Implementing Procedure -03. This report discusses a NOTIFICATION OF UNUSUAL EVENT due to a complete loss of offsite power to the non-class in-house electrical busses and a safety injection actuation.

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

Very truly yours,

J. G. Haynes for

J. G. Haynes
Vice President
Nuclear Production

JGH/TDS/DAJ/kj

Attachment

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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-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 3. The NUE was declared pursuant to EPIP-02, "Emergency Classification" as a result of a complete loss of offsite power to the in-plant non-class 1E electrical busses 3E-NAN-S01 and 3E-NAN-S02 and a safety injection actuation resulting from low pressurizer pressure.

On March 3, 1989, Palo Verde Unit 3 was operating in Mode 1 (POWER OPERATION) at approximately 98 percent power and in-plant non-class 1E electrical components (including Reactor Coolant Pumps) were being powered by the Main Turbine Generator via the Unit Auxiliary Transformer. At approximately 0102 MST an electrical grid disturbance occurred which was caused by a fault near the Devers, California switchyard. The electrical grid disturbance resulted in the main generator output breakers opening and a reactor power cutback. During the reactor power cutback, the control system for four (4) of the eight (8) steam bypass control valves appears not to have operated properly which resulted in secondary pressure oscillations and an excessive steam demand. The excessive steam demand eventually resulted in a Steam Generator Number two (2) low pressure reactor trip, main turbine trip, and Main Steam Isolation System (MSIS) Engineered Safety Features (ESF) actuation at approximately 0103 MST. Approximately six seconds after the reactor trip, Safety Injection and Containment Isolation ESF actuations occurred due to low pressurizer pressure. In accordance with approved procedures, two (2) Reactor Coolant Pumps (RCP's) were stopped. Following the Main Turbine trip, a Fast-Bus Transfer did not occur per design and a loss of power to the in-plant non-class 1E electrical busses occurred. This resulted in the other two (2) RCP's being deenergized.

As a result of the MSIS actuation, steam flow to the Main Condenser was terminated. Attempts to remotely operate the Atmospheric Dump Valves (ADV's) were unsuccessful which resulted in the automatic actuation of one (1) Main Steam Safety Valve (MSSV).

At approximately 0139 MST on March 3, 1989, a Notification of Unusual Event (NUE) was declared pursuant to EPIP-02, "Emergency Classification", due to the loss of power to the in-plant non-class 1E electrical busses and the safety injection system actuation. At approximately 0149 MST on March 3, 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 0203 MST on March 3, 1989.

At approximately 0232 MST on March 3, 1989, power was restored to 3E-NAN-S01. At approximately 0241 MST on March 3, 1989, the Safety Injection Actuation System was reset. At approximately 0243 MST on March 3, 1989, power was

restored to 3E-NAN-S02. As a result of restoring power to the in-plant non-class 1E electrical busses, the NUE was terminated at approximately 0252 MST on March 3, 1989.

The event did not result in any challenge to fission product barriers nor did the event result in significant releases of radioactive materials. A Licensee Event Report will be submitted within 30 days of the event in accordance with 10CFR50.73.

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