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SUBJECT: Special rept:on 890103,facility loss offsite power caused by lightning striking circuit.

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Arizona Nuclear Power Project

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192-00442-JGH/TDS/JEM

January 9, 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-89-001
File: 89-020-404

Attached please find Special Report 2-SR-89-001 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 4.16 Kv class 1E electrical busses.

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-89-001

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 a complete loss of offsite power to the in-plant 4.16 Kv class 1E busses 2E-PBA-S03 and 2E-PBB-S04.

At approximately 1940 MST on January 3, 1989, Palo Verde Unit 2 was operating in Mode 1 (POWER OPERATION) at approximately 100 percent power when a complete loss of offsite power to the 4.16 Kv class 1E busses 2E-PBA-S03 and 2E-PBB-S04 occurred. The loss of power (LOP) was caused by lightning striking the 13.8 Kv circuit between the Engineered Safety Features (ESF) Service Transformer 2E-NBN-X03 and 13.8 Kv bus 2E-NAN-S05. Then, 0.8 second later lightning struck the 13.8 Kv circuit between ESF Service Transformer 2E-NBN-X04 and 13.8 Kv bus 2E-NAN-S06. Breakers 2E-NBN-S03A and 2E-NBN-S04A, ESF Service Transformers Normal Supply Breakers, tripped on Instantaneous Overcurrent and Phase Differential.

Due to the LOP on class 1E 4.16 Kv busses 2E-PBA-S03 and 2E-PBB-S04, the "A" and "B" Diesel Generators started and assumed the loads on 2E-PBA-S03 and 2E-PBB-S04 respectively. Technical Specification Limiting Condition for Operation (LCO) 3.8.1.1 ACTIONS "a" and "d" were entered at 1940 MST on January 3, 1989.

At approximately 1959 MST on January 3, 1989 a Notification of Unusual Event (NUE) was declared. At approximately 2010 MST on January 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 2034 MST on January 3, 1989.

Troubleshooting and rework were performed in accordance with approved work control documents. It was identified that the transformers were not damaged; however, two primary side bushings were changed on each transformer. After successful completion of appropriate retests, transformer 2E-NBN-X04 was energized at approximately 1438 MST on January 4, 1989 and paralleled with "B" diesel generator at approximately 1646 MST on January 4, 1989.

At approximately 1648 MST on January 4, 1989, the NUE was terminated due to offsite power being restored to one class 1E 4.16 Kv bus and ACTION "d" of LCO 3.8.1.1 was then exited.

At approximately 1808 MST on January 4, 1989, transformer 2E-NBN-X03 was energized from offsite power. At approximately 1925 MST on January 4, 1989, transformer 2E-NBN-X03 was paralleled with "A" diesel generator and offsite power was restored to class 1E bus 2E-PBA-S03. LCO 3.8.1.1 ACTION "a" was then exited.

Throughout the event, the plant remained stable at approximately 100 percent power. 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.

