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 FACIL: STN-50-529 Palo Verde Nuclear Station, Unit 2, Arizona Publi 05000529
 AUTH. NAME AUTHOR AFFILIATION
 HAYNES, J. G. Arizona Nuclear Power Project (formerly Arizona Public Serv
 RECIP. NAME RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk)

SUBJECT: Special rept: on 870604, reactor/turbine trip occurred while
 in Mode 1 due to low level condition in Steam Generator 2.
 Notification of unusual event terminated at 1:11 p.m.
 Detailed rept of event will be submitted by 870704.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 2
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: Standardized plant. M. Davis, NRR: 1Cy.

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| | NRR/DOEA/EAB | 1 1 | NRR/DREP/RAB | 1 1 |
| | NRR/DREP/RPB | 2 2 | NRR/PMAS/ILRB | 1 1 |
| | NRR/PMAS/PTSB | 1 1 | <u>REG FILE</u> 02 | 1 1 |
| | RES DEPY GI | 1 1 | RGN5 FILE 01 | 1 1 |
| EXTERNAL: | EG&G GRDH, M | 5 5 | H ST LOBBY WARD | 1 1 |
| | LPDR | 1 1 | NRC PDR | 1 1 |
| | NSIC HARRIS, J | 1 1 | NSIC MAYS, G | 1 1 |

NOTES: 1 1

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Arizona Nuclear Power Project

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192-00231-JGH-TRB/MJC

June 9, 1987

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

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 2
Docket No. STN 50-529 (License NPF-51)
Special Report 2-SR-87-017
File: 87-020-404

Dear Sirs:

Attached please find a Special Report 2-SR-87-017 prepared and submitted a report of Notification of Unusual Event that occurred on June 4, 1987.

If you have any questions, please contact T. R. Bradish, Compliance Supervisor at (602) 932-5300, Ext. 6936.

Very truly yours,

J. G. Haynes
Vice President
Nuclear Production

JGH/TRB/MJC/cld

Attachment

cc: O. M. DeMichele (all w/a)
E. E. Van Brunt, Jr.
J. B. Martin
R. P. Zimmerman
R. C. Sorenson
E. A. Licitra
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PALO VERDE NUCLEAR GENERATING STATION UNIT 2

Emergency Core Cooling System Actuation

Docket No. 50-529

License No. NPF-51

Special Report No. 2-SR-87-017

At approximately 1305 on June 4, 1987, the USNRC Operations Center was notified via the Emergency Notification System of the declaration of a NOTIFICATION OF UNUSUAL EVENT (NUE) for Palo Verde Nuclear Generating Station Unit 2. The NUE was declared pursuant to Emergency Plan Implementing Procedure EPIP-02 which also requires a report to the USNRC following a Safety Injection Actuation Signal (SIAS) generated by low pressurizer pressure due to assumed Safety Injection flow into the Reactor Coolant System.

At approximately 1300 MST on June 4, 1987, Palo Verde Unit 2 was in Mode 1 (POWER OPERATION) at 100 percent power when a reactor/turbine trip occurred due to a low level condition in Steam Generator (SG) 2. The low level in SG 2 resulted in an Auxiliary Feedwater Actuation Signal (AFAS) 1 and 2. A Containment Isolation Actuation Signal (CIAS) and SIAS were received due to low pressurizer pressure. The AFAS, CIAS and SIAS signals represent automatic actuations of Engineered Safety Features (ESF). The cause of the reactor trip has been attributed to erratic Feedwater Control System (FWCS) behavior following an equipment malfunction that occurred during troubleshooting that was being conducted under an authorized work document.

As designed, the reactor/turbine trip caused a Steam Bypass Control System (SBCS) Quick Open on all 8 SBCS valves. The Quick Open followed by an excessive feedwater flow caused the Reactor Coolant System to cooldown and resulted in the pressurizer pressure decreasing to the SIAS and CIAS trip setpoints. The excessive feedwater flow has been attributed to a delay in closing the economizer valves as a result of oscillations in valve position caused by perturbations in the Feedwater Control System.

In accordance with EPIP-02, an NUE was declared as 1305. The NUE was terminated at 1311. A detailed report of this event will be submitted by July 4, 1987 pursuant to the requirements of 10 CFR 50.73.