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ACCESSION NBR:9107110204DOC.DATE: 91/06/24NOTARIZED: NODOCKET #FACIL:STN-50-529Palo Verde Nuclear Station, Unit 2, Arizona Publi05000529AUTH.NAMEAUTHOR AFFILIATIONBRADISH,T.R.Arizona Public Service Co. (formerly Arizona Nuclear PowerLEVINE,J.M.Arizona Public Service Co. (formerly Arizona Nuclear PowerRECIP.NAMERECIPIENT AFFILIATION

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SUBJECT: LER 91-001-00:on 910605,Train B containment purge isolation actuation signal initiated on balance-of-plant ESFAS, resulting in setting setpoints below radiation level.Caused by personnel error.Technician counseled.W/910624 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED:LTR / ENCL / SIZE: TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

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NOTES:Standardized plant.

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NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM PI-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

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

> 192-00727-JML/TRB/RKR June 24, 1991

JAMES M. LEVINE VICE PRESIDENT NUCLEAR PRODUCTION

à

U. S. Nuclear Regulatory Commission Attention: Document Control Desk Mail Station P1-37 Washington, D.C. 20555

Dear Sirs:

Subject:

Palo Verde Nuclear Generating Station (PVNGS) Unit 2 Docket No. STN 50-529 (License No. NPF-51) Licensee Event Report 91-001-00 <u>File: 91-020-404</u>

Attached please find Licensee Event Report (LER) No. 91-001-00 prepared and submitted pursuant to 10CFR50.73. In accordance with 10CFR50.73(d), we are forwarding a copy of the LER to the Regional Administrator of the Region V office.

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

(all with attachment)

Very truly yours,

Villie 2 Sele for

JML/TRB/RKR/nk

Attachment

cc:

FDR

W. F. Conway J. B. Martin

D. H. Coe

A. C. Gehr

A. H. Gutterman

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INPO Records Center

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U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/88

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)
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Palo Verde Unit 2	0 5 0 0 0 5 2	9 9 1 - 0 0 1 - 0 0	0 2 OF 0 5
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I. DESCRIPTION OF WHAT OCCURRED:

NRC Form 366A (9-83)

A. Initial Conditions:

At 1331 MST on June 5, 1991, Palo Verde Unit 2 was in Mode 1 (POWER OPERATION) at approximately 100 percent power.

B. Reportable Event Description (Including Dates and Approximate Times of Major Occurrences):

Event Classification:

An event or condition that resulted in an Engineered Safety Feature (ESF)(JE) actuation.

At approximately 1131 MST on June 5, 1991, a Train "B" Containment Purge Isolation Actuation Signal (CPIAS)(VA)(JE) was initiated on the Balance of Plant Engineered Safety Features Actuation System (BOP ESFAS)(JE). The Train "B" CPIAS resulted in the designed cross trips of Train "A" CPIAS and Train "A" and "B" Control Room Essential Filtration Actuation Signals (CREFAS)(VI). The actuations occurred when the high alarm/trip setpoint for the Train "B" Power Access Purge Area Radiation Monitor (RU-38) (VA)(IL)(RI) was inadvertently reset below the background radiation level. All components in the Control Room Essential Filtration System (VI) responded properly to the CREFAS. At the time of this event, no Containment (NH) purge was in progress and all Containment Purge System isolation valves (VA)(ISV) were Control Room personnel (utility, licensed) verified that closed. radiation monitors adjacent to RU-38 were indicating normal radiation levels.

The BOP ESFAS actuation resulted in close signals being sent to all Train "A" and "B" Containment Purge System isolation valves and actuations of the Control Room Essential Ventilation System (VI) Trains "A" and "B", the Essential Chilled Water System (KM) Trains "A" and "B", the Essential Cooling Water System (BI) Trains "A" and "B", and the Essential Sprāy Pond System (BS) Trains "A" and "B". All components operated as designed.

Prior to the event a chemistry radiation monitoring system (RMS) technician (utility, nonlicensed) was resetting the alarm setpoint on the Containment Building Purge Exhaust Radiation Monitor RU-34 (VA)(IL)(RI) in accordance with an approved procedure. RU-34 continuously measures the gaseous activity levels of Containment purge system exhaust in microcuries per cubic centimeter (uCi/cc). RU-34 has an alarm only function and is not normally bypassed during maintenance or testing. The alarm setpoint for RU-34 is

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LICENSEE EVENT REPORT	(LER) TEXT CONTINUATION
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U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO, 3150-0104 EXPIRES: 8/31/88

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2E-06 uCi/cc. The Remote Indication and Control Unit (RIC) (XIC) (IL) for RU-34 is adjacent to the RIC for RU-38. The RU-34 RIC and RU-38 RIC are identical with the RU-34 RIC located directly above the RU-38 RIC in the RIC cabinet (CAB). The RIC cabinet is located outside the Control Room (NA). Each RIC is clearly labeled. RU-38 continuously measures the radiation levels of Containment purge system exhaust in milliRem per hour (mR/hr). RU-38 performs the safety function of isolating Containment purge system exhaust if radiation levels reach a predetermined setpoint (2 mR/hr). While entering the alarm setpoint for RU-34 (2E-06 uCi/cc) the technician inadvertently entered this setpoint into the adjacent RU-38 RIC. Since background radiation levels were above this value, RU-38 initiated the Train "B" CPIAS.

The BOP ESFAS actuations were identified by Control Room personnel (utility, licensed) as a result of main control board (MCBD) annunciations (ANN). No operator actions contributed to the cause of the event. No other ESF actuations occurred and none were necessary. Unit 2 personnel (utility, licensed) verified that the ESF actuations did not occur as a result of high radiation levels in the Containment Purge System.

At approximately 1212 MST on June 5, 1991, the actuated equipment was secured, reset and returned to normal service.

C. Status of structures, systems, or components that were inoperable at the start of the event that contributed to the event:

Not applicable - no structures, systems, or components were inoperable at the start of the event which contributed to this event.

D. Cause of each component or system failure, if known:

Not applicable - no component or system failures were involved.

E. Failure mode, mechanism, and effect of each failed component, if known:

Not applicable - no component failures were involved.

F. For failures of components with multiple functions, list of systems or secondary functions that were also affected:

Not applicable - no component failures were involved.

NRC Form 366A (9-83)

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NRC Form 366A (9-83)	¢	LICENSEE EVENT RE	PORT (LER) T	EXT C	ONTI	NUA	ATIO	N		U.S. F	APP EXPI	LEAR REG ROVED C IRES: 8/31	GULATOR DMB NO. 3 1/88	Y CON 150-0	104	
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NRC Form 366A (9-83)	LICENSE	N	U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/88											
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NRC FORM 366A (9-83)

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