REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8706160033 DOC. DATE: 87/06/08 NOTARIZED: NO DOCKET #
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 2-SR-87-016: on 870509, radioactive gaseous effluent monitor exceeded 72 h limit for operability. Caused by maint of low flow alarm. Surveillance test performed & monitor declared operable on 870512.

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. 05000529

	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL
	PD5 LA	1	1	PD5 PD	1	1
	LICITRA, E	1	1	DAVIS, M	1	1
INTERNAL:	ACRS MICHELSON	1	1	ACRS MOELLER	2	2
	AEOD/DOA	1	1	AEOD/DSP/ROAB	2	2
	AEOD/DSP/TPAB	1	1	DEDRO	1	1
	NRR/DEST/ADE	1	0	NRR/DEST/ADS	1	0
	NRR/DEST/CEB	1	1	NRR/DEST/ELB	1	1
	NRR/DEST/ICSB	1	1	NRR/DEST/MEB	1	1
	NRR/DEST/MTB	1	1	NRR/DEST/PSB	1	1
	NRR/DEST/RSB	1	1	NRR/DEST/SGB	1	1
	NRR/DLPQ/HFB	1	1	NRR/DLPQ/QAB	1	1
	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	REG FILE 02	1	1
	RES DEPY GI	1	1	RGN5 FILE 01	1	1
EXTERNAL:	EG&G GROH, 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			

TOTAL NUMBER OF COPIES REQUIRED: LTTR 44 ENCL 42

PALO VERDE NUCLEAR GENERATING STATION

Radiation Monitoring Unit Inoperable for Greater Than 72 Hours

License No. NPF-51

Docket No. STN 50-529

Special Report 2-SR-87-016

This Special Report is being submitted pursuant to Technical Specification 3.3.3.8 ACTION 42b and Technical Specification 6.9.2 to report an event in which a Radioactive Gaseous Effluent Monitor, (Condenser Evacuation High Range Noble Gas Activity Monitor) RU-142, was inoperable for greater than 72 hours. The 72 hour limit for operability was exceeded at approximately 0230 MST on May 9, 1987. Pursuant to Technical Specification 3.3.3.8 ACTION 42a the Preplanned Alternate Sampling Program was initiated to monitor the condenser Evacuation System.

At approximately 0230 MST on May 6, 1987, Palo Verde Unit 2 was in Mode 1 (POWER OPERATION) when the Condenser Evacuation System Radioactive Gaseous Effluent Monitors, low range RU-141 and high range RU-142, were declared inoperable due to the low flow alarm not working during a weekly surveillance test.

Monitors RU-141 and RU-142 work as a pair with RU-141 being the low range monitor and RU-142 being the high range monitor. Normal configuration consists of RU-141 operating and RU-142 in standby. When RU-141 reaches it's maximum range, RU-142 starts and RU-141 goes to standby. Since RU-141 and RU-142 work in tandem, both monitors must be declared inoperable if the other malfunctions.

Troubleshooting, rework, and replacement of components was performed in accordance with an approved work control document. The cause of the low flow alarm not working was air leakage past an O-ring. The O-ring creates a seal between the filter and the filter housing. During the surveillance test the inlet valve for the monitor is closed. The low flow alarm should then alarm. Due to the leakage past the O-ring there was flow at all times therefore the low flow alarm would not come in. The filter and O-ring were replaced and the low flow alarm worked as designed.

Prior to the work document closure, low flow alarms began continuously cycling on and off. Troubleshooting found the bellows assembly for a flow control valve to be broken. The bellows assembly is a brass coupling between the valve stem and actuator. The bellows assembly rotates clockwise or counterclockwise, depending whether the valve is to be opened or closed. The bellows had a broken solder joint which was caused by overextending the bellows. This was due to the lower limit switch arm being loose and not stopping valve travel when closing the valve. The valve disc was then jammed in the valve seat. When the valve was opened, the bellows was overextended and the solder joint broke. The bellows was replaced and the limit switch was readjusted to prevent the valve from jamming into the seat.

The Surveillance Test was performed satisfactorily and RU-141 and RU-142 were declared operable at 1620 MST on May 12, 1987. The monitors were inoperable for 6 days 13 hours and 50 minutes.

Arizona Nuclear Power Project
P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

192-00219-JGH/TRB/JEM
June 8, 1987

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

Subject: Palo Verde Nuclear Generating Station
Unit 2
Docket No. STN 50-529 (License NPF-51)
Special Report 2-SR-87-016
File: 87-020-404

Dear Sirs:

Attached please find a Special Report 2-SR-87-016 prepared and submitted pursuant to Technical Specifications 3.3.3.8 and 6.9.2. This report discusses a Radiation Monitoring Unit inoperable for greater than 72 hours.

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

Very truly yours,

J. G. Haynes
Vice President
Nuclear Production

JGH/TRB/JEM/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
A. C. Gehr
INPO Records Center

IE22
1/1