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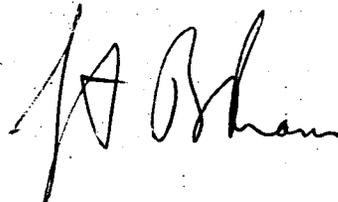
October 26, 1990

Re: Indian Point Unit No. 2
Docket No. 50-247
LER 90-09-00

Document Control Desk
US Nuclear Regulatory Commission
Mail Station P1-137
Washington, DC 20555

The attached Licensee Event Report LER 90-09-00 is hereby submitted in accordance with the requirements of 10 CFR 50.73.

Very truly yours,



Attachment

cc: Mr. Thomas T. Martin
Regional Administrator - Region I
US Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Mr. Donald S. Brinkman, Senior Project Manager
Project Directorate I-1
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US Nuclear Regulatory Commission
Mail Stop 14B-2
Washington, DC 20555

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LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) Indian Point Unit No. 2						DOCKET NUMBER (2) 0 5 0 0 0 2 4 7			PAGE (3) 1 OF 0 3		
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TITLE (4)
Toxic Gas Monitor/ESF Actuation

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)
0	9	2 6 9 0	9	0	0	0	1	0	2 6 9 0		0 5 0 0 0

OPERATING MODE (9) N	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)										
POWER LEVEL (10) 0 9 17	20.402(b)		20.405(c)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)		73.71(b)				
	20.405(a)(1)(i)		50.36(c)(1)		50.73(a)(2)(v)		73.71(c)				
	20.405(a)(1)(ii)		50.36(c)(2)		50.73(a)(2)(vii)		OTHER (Specify in Abstract below and in Text, NRC Form 366A)				
	20.405(a)(1)(iii)		50.73(a)(2)(ii)		50.73(a)(2)(viii)(A)						
	20.405(a)(1)(iv)		50.73(a)(2)(iii)		50.73(a)(2)(viii)(B)						
20.405(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(ix)							

LICENSEE CONTACT FOR THIS LER (12)

NAME Richard Louie, Engineer		TELEPHONE NUMBER 9 1 4 5 2 6 - 5 6 7 8	
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
X	VII	MON	W 2 4 10	N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On September 26, 1990, at about 0443 hours, with reactor power at 97%, the chlorine toxic gas monitor channel 1 alarmed, resulting in the transfer of the Central Control Room (CCR) Ventilation System from the normal mode to the incident mode.

As designed, the detection of chlorine by either Channels 1 or 2 of the toxic gas monitors will generate an alarm in the CCR and isolate the CCR Ventilation System. The Toxic Gas Monitoring System is classified as an Engineered Safety Feature (ESF). No Technical Specification or NRC limits were exceeded.

**LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION**

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FACILITY NAME (1) Indian Point Unit No. 2	DOCKET NUMBER (2) 0 5 0 0 0 2 4 7	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		9 0	0 0 9	0 0	0 2	OF	0 3

TEXT (If more space is required, use additional NRC Form 366A's) (17)

PLANT AND SYSTEM IDENTIFICATION:

Westinghouse 4-Loop Pressurized Water Reactor

IDENTIFICATION OF OCCURRENCE:

Inadvertent actuation of the chlorine toxic gas monitoring channels, initiating operation of an Engineered Safety Feature (ESF).

EVENT DATE:

September 26, 1990

REPORT DUE DATE:

October 26, 1990

REFERENCES:

Significant Occurrence Report (SOR) 90-478,

PAST SIMILAR OCCURRENCE:

LER 90-007-00

DESCRIPTION OF OCCURRENCE:

On September 26, 1990, at about 0443 hours, with reactor power at 97%, the CCR Ventilation System was automatically aligned from the normal mode to the incident mode and an ESF was actuated. The cause of the ESF actuation was due to an alarm generated by the chlorine toxic gas monitor system.

Immediate investigation determined that the cause of the inadvertent actuation of the chlorine toxic gas monitor channel 1 was due to a rip of the paper tape which senses the chlorine gas being monitored. Rips or tears in the paper tape causes a fiber optic monitor in the toxic gas monitor to generate a false alarm. The paper was replaced, the alarm was reset and the ventilation system returned to normal mode.

**LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION**

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		YEAR 9 0	SEQUENTIAL NUMBER - 0 0 9	REVISION NUMBER - 0 0	OF 0 3	OF 0 3

TEXT (If more space is required, use additional NRC Form 366A's) (17)

ANALYSIS OF OCCURRENCE:

This report is being made since actuation of an ESF occurred. Any manual or automatic actuation of an ESF is reportable under 50.73(a)(2)(IV). There were no safety implications; all safety systems performed in accordance with design.

CAUSE OF OCCURRENCE:

The chlorine toxic gas monitor has inlet and outlet air sample pumps which draw air across a moving tape. When chlorine is detected, the tape will change color. The tape is continuously monitored by a fiber optic monitor which generates an alarm in the CCR when the proper color is achieved. Rips or tears in the paper tape will cause a fiber optic monitor to generate a false alarm. The cause of the occurrence was due to rips of the paper tape.

CORRECTIVE ACTION:

- 1) Immediate corrective action was the replacement of the paper tape cassette.
- 2) To eliminate improper tape installation as a cause of the problem, the plant operators have been provided with additional training regarding performing tape replacement and assuring that the tape is properly fed through the monitor.
- 3) Until such time that the problem is corrected, the frequency for checking the monitors has been increased from 8 hours to once every 4 hours. This is to ensure that the tape is being properly fed through the monitor.
- 4) Replacement of the existing electro-mechanical type monitors with electro-chemical type monitors is currently under engineering evaluation. The schedule for implementation will depend upon completion of technical review and equipment procurement lead times. Electro-chemical monitors appear to offer greater reliability and require less maintenance to ensure adequate operability.