

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

TITLE (4)
Actuation of Toxic Gas Monitor, Initiating ESF

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)
08	05	91	91	015	00	09	04	91		0 5 0 0 0
										0 5 0 0 0

OPERATING MODE (9) N

POWER LEVEL (10) 100

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

20.402(b)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)	<input type="checkbox"/>	73.71(b)	<input type="checkbox"/>
20.406(a)(1)(i)	<input type="checkbox"/>	50.73(a)(2)(v)	<input type="checkbox"/>	73.71(c)	<input type="checkbox"/>
20.406(a)(1)(ii)	<input type="checkbox"/>	50.73(a)(2)(vi)	<input type="checkbox"/>	OTHER (Specify in Abstract below and in Text, NRC Form 366A)	<input type="checkbox"/>
20.406(a)(1)(iii)	<input type="checkbox"/>	50.73(a)(2)(vii)(A)	<input type="checkbox"/>		
20.406(a)(1)(iv)	<input type="checkbox"/>	50.73(a)(2)(vii)(B)	<input type="checkbox"/>		
20.406(a)(1)(v)	<input type="checkbox"/>	50.73(a)(2)(ix)	<input type="checkbox"/>		

LICENSEE CONTACT FOR THIS LER (12)

NAME: Richard Louie, Engineer

TELEPHONE NUMBER: 914 526-5678

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	VIMON	W240		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 August 5, 1991, at about 1100 hours, with reactor power at 100%, the Anhydrous Ammonia (NH3) 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. The source of the ammonia release was from the handling of ammonium hydroxide within the plant.

As designed, the detection of ammonia 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.

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

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 60.0 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	LER NUMBER (6)			PAGE (3)		
		YEAR 9 1 -	SEQUENTIAL NUMBER 0 1 5	REVISION NUMBER - 0 0			

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:

Actuation of the Ammonia toxic gas monitoring channel, initiating operation of an Engineered Safety Feature (ESF).

EVENT DATE:

August 5, 1991

REPORT DUE DATE:

September 4, 1991

REFERENCES:

Significant Event Report (SOR) 91-364

PAST SIMILAR OCCURRENCE:

None

DESCRIPTION OF OCCURRENCE:

On August 5, 1991, at about 1100 hours, with reactor power at 100%, the Central Control Room (CCR) ventilation system was automatically aligned from the normal mode to the incident mode and an ESF was actuated. The cause of ESF actuation was due to an alarm generated by the ammonia toxic gas monitor system.

Investigation determined that the source of the ammonia which caused the monitor to actuate was from the water treatment facility on-site. A plant chemist was performing monthly routine maintenance involving the replacement of a chemical reagent used for sodium monitors. The reagent is a concentrated ammonium hydroxide. While handling this reagent, excessive ammonia gas was inadvertently released into the air. This gas was then exhausted outside by the ventilation fan. Because of the close proximity of the CCR ventilation system intake duct to the exhaust louver from the water treatment facility, the ammonia gas was detected by the toxic gas monitor, and thus caused the alignment of the CCR ventilation system to the incident mode. When the monitor was re-set, the CCR ventilation system was returned to the normal mode. The CCR was surveyed by a plant chemist and no ammonia was detected.

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		9 1	- 0 1 5	- 0 0	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 cause of the actuation of the ammonia toxic gas monitor was due to inadvertent release of excessive ammonia gas during the performance of routine maintenance activities associated with the on-site water treatment facility. There were no equipment malfunctions, all safety systems performed as expected.

CORRECTIVE ACTION:

The chemists are aware of this occurrence and will use extra care in handling the sodium monitor reagent to ensure that excessive amounts of ammonia gas are not released into the air. No changes to procedures and/or the handling of the reagent are deemed necessary at this time. The System Engineer will observe the replacement of the reagent during the next several maintenance periods to critique handling techniques and applicable procedures.

Stephen B. Bram
Vice President

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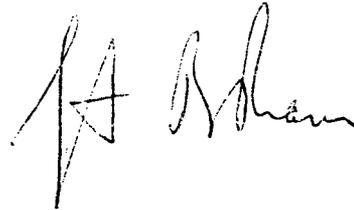
September 4, 1991

Re: Indian Point Unit No. 2
Docket No. 50-247
LER 91-15-00

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

The attached Licensee Event Report LER 91-15-00 is hereby submitted in accordance with the requirements of 10 CFR 50.73.

Very truly yours,



Attachment

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