

Stephen B. Bram  
Vice President

Consolidated Edison Company of New York, Inc.  
Indian Point Station  
Broadway & Bleakley Avenue  
Buchanan, NY 10511  
Telephone (914) 737-8116

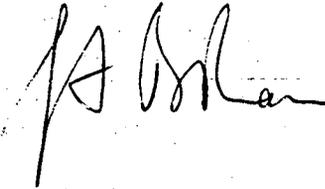
June 2, 1992

Re: Indian Point Unit No. 2  
Docket No. 50-247  
LER 92-10-00

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

The attached Licensee Event Report LER 92-10-00 is hereby  
submitted in accordance with the requirements of 10 CFR 50.73.

Very truly yours,



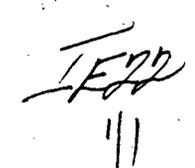
Attachment

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

Mr. Francis J. Williams, Jr., Project Manager  
Project Directorate I-1  
Division of Reactor Projects I/II  
US Nuclear Regulatory Commission  
Mail Stop 14B-2  
Washington, DC 20555

Senior Resident Inspector  
US Nuclear Regulatory Commission  
PO Box 38  
Buchanan, NY 10511

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PDR ADDCK 05000247  
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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) <b>Indian Point Unit No. 2</b>						DOCKET NUMBER (2) <b>0 5   0 0   0 2   4 7</b>			PAGE (3) <b>1 OF 0 3</b>		
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TITLE (4)  
**CCR Ventilation Isolation due to Ammonia Indication on Toxic Gas Monitor**

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 5	0 2	9 2	9 2	0 1 0	0 0	0 6	0 2	9 2			0 5   0 0   0 0
THIS REPORT IS SUBMITTED PURBUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)											

OPERATING MODE (9) <b>N</b>	20.402(b)	20.406(c)	<input checked="" type="checkbox"/> 50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) <b>1 1 0 1 0</b>	20.406(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
	20.406(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 355A)
	20.406(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
	20.406(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
	20.406(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME <b>George Dahl, Engineer</b>	TELEPHONE NUMBER AREA CODE: <b>9 1 4</b> NUMBER: <b>5 2 6 1 - 5 1 1 8 1 6</b>
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFAC-TURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)

<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

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

**ABSTRACT:**

On May 2, 1992 and again on May 18, 1992, channel 2 of the Central Control Room (CCR) toxic gas monitor indicated the presence of ammonia and isolated the CCR ventilation system, which is an Engineered Safety Feature. Local manual sampling determined there was no ammonia present in the CCR. After the monitor indication exhibited a decreasing trend, the alarm was reset and the ventilation system was returned to the normal mode which uses outside air make-up. A source for the ammonia could not be determined. The alarm setpoint will be increased to avoid ventilation system isolations at non-toxic levels of ammonia after approval of a pending Technical Specification Amendment Application. The CCR ventilation system functioned as designed and the health and safety of the public were not affected by these events.

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

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	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		9 2	- 0 1 0	- 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:**

Indication of ammonia by the Central Control Room (CCR) toxic gas monitor resulted in isolation of the CCR ventilation system, an Engineered Safety Feature (ESF).

**EVENT DATES:**

May 2 and 18, 1992

**REPORT DUE DATE:**

June 2, 1992

**REFERENCES:**

Significant Occurrence Reports (SOR) 92-223, 92-250

**PAST SIMILAR OCCURRENCES:**

LER 91-15

**DESCRIPTION OF OCCURRENCES:**

On May 2, 1992 at approximately 1153 hours, and again on May 18, 1992 at approximately 1911 hours, with the plant at 100% power on both days, channel 2 of the CCR ammonia toxic gas monitor alarmed. The CCR ventilation system subsequently transferred from the normal outside air make-up alignment to full internal recirculation. Channel 1 also exhibited an upward trend but had not reached the alarm setpoint. Local manual sampling of the CCR indicated no presence of ammonia. In both instances, the alarm was reset after the monitor indication exhibited a decreasing trend, the ventilation system was returned to the normal mode, and the channel indication eventually returned to zero.

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)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
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Indian Point Unit No. 2	0 5 0 0 0 2 4 7 9 2	-	0 1 0	-	0 0	0 3	OF 0 3

TEXT (If more space is required, use additional NRC Form 386A's) (17)

ANALYSIS OF OCCURRENCES:

The CCR ammonia toxic gas monitor consists of two channels that sample the intake air of the CCR ventilation system. The channels are newly installed electro-chemical type monitors which use a gas diffusion sensor that generates a current that is proportional to the concentration of the gas. An alarm on either channel will automatically transfer the ventilation system from the normal line-up, which uses outside air make-up, to the incident mode of full recirculation. The alarm setpoint for ammonia is 3.0 ppm and the Technical Specification limit is 3.5 ppm.

In these instances, both channels trended upward with channel 1 reaching a level of 2 ppm in the first occurrence and 1 ppm in the second, and, channel two reached levels of 4 ppm and 3.5 ppm, respectively. The differences between the indications on the two channels are within the tolerance limits for the detection system. In both events, the CCR ventilation system functioned as designed by successfully isolating the CCR from the outside air supply upon the indication of ammonia. However, because the levels indicated are well below the threshold limit value for toxic effects, and are even below the level for olfactory detection, the isolation of the ventilation system was not required to mitigate any adverse condition. Further, at the low non-toxic levels indicated, a hypothetical failure of the ventilation system to isolate would not have resulted in any adverse effects. Therefore, there were no safety consequences of these events. This report is being made, however, because the CCR ventilation system is an ESF and it was actuated to its safeguards position.

CAUSE OF OCCURRENCES:

The monitor alarmed and isolated the CCR ventilation system due to the indication of ammonia. A source for the ammonia could not be determined. Ammonia is a common chemical and is used in various plant locations in a variety of applications.

CORRECTIVE ACTIONS:

It had previously been determined that the alarm setpoint and Technical Specification limit for ammonia are too conservative and a Technical Specification Amendment Application is pending to increase the limit to 25 ppm. This threshold limit value adequately assures a non-toxic exposure over a 40 hour period. With the higher setpoint, low non-toxic levels of ammonia will not actuate the CCR ventilation isolation.