

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9104180156 DOC.DATE: 91/04/12 NOTARIZED: NO DOCKET #  
 FACIL:50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316  
 AUTH.NAME AUTHOR AFFILIATION  
 WOJCIK,J.T. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele  
 BLIND,A.A. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele  
 RECIPI.NAME RECIPIENT AFFILIATION

SUBJECT: LER 91-003-00:on 910312,condenser evacuation sys noble gas  
 monitor declared inoperable.Caused by personnel error.  
 Techniques of gaseous sampling revised to allow sampling of  
 condenser air ejector.W/910412 ltr.

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 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

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EXTERNAL:	EG&G BRYCE,J.H	3 3	L ST LOBBY WARD	1 1
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616 465 5901



April 12, 1991

United States Nuclear Regulatory Commission  
Document Control Desk  
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Operating Licenses DPR-74  
Docket No. 50-316

Document Control Manager:

In accordance with the criteria established by  
10 CFR 50.73 entitled Licensee Event Reporting System,  
the following report is being submitted:

91-003-00

Sincerely,

*A. A. Blind*  
A.A. Blind  
Plant Manager

AAB:sb

Attachment

c: D.H. Williams, Jr.  
A.B. Davis, Region III  
E.E. Fitzpatrick  
P.A. Barrett  
B.F. Henderson  
R.F. Kroeger  
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NRC Resident Inspector  
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D. Hahn  
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B.A. Svensson

*FE22, 1*

EXPIRES: 4/30/92

## 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) D. C. Cook Nuclear Plant - Unit 2										DOCKET NUMBER (2) 0 5 0 0 0 3 1 6				PAGE (3) 1 OF 0 3										
TITLE (4) Condenser Air Ejector Noble Gas Not Sampled and Analyzed in Accordance with Technical Specifications																								
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	3	13	9	1	9	1	0	0	3	0	0	4	1	2	9	1	0	5	0	0	0			
OPERATING MODE (9) 3			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)																					
POWER LEVEL (10) 0 0 0			20.402(b)				20.405(c)				50.73(a)(2)(iv)				73.71(b)									
			20.405(a)(1)(i)				50.38(c)(1)				50.73(a)(2)(v)				73.71(c)									
			20.405(a)(1)(ii)				50.38(c)(2)				50.73(a)(2)(vi)				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)(vii)(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 J. T. Wojcik - Technical Physical Sciences Superintendent										TELEPHONE NUMBER														
										AREA CODE 6 1 6 4 6 5 1 5 9 0 1														
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																								
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS														
C	I, L	M, O, N	E, 0, 7, 0	N																				
SUPPLEMENTAL REPORT EXPECTED (14)												EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR								
YES (If yes, complete EXPECTED SUBMISSION DATE)												X NO												

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

On March 12, 1991 at 1857, SRA-2905, the Condenser Evacuation System Noble Gas Monitor was declared out of service. From March 13, 1991 at 1948 hours to March 14, 1991 at 1550 hours compensatory sampling in accordance with Technical Specification 3.3.3.10, Table 3.3-13, Item 2a was not conducted due to difficulties in obtaining a sample at the normal sampling point. The cause of this event was personnel error.

No radioactivity has been detected in the Unit 2 secondary system since the Steam Generator Repair Project. In addition, the Steam Generator Blowdown Radiation Monitors were operable and would have indicated a radioactivity transient in the secondary system. Therefore, we believe this event did not pose a threat to the health and safety of the public.

After discovery of an appropriate sampling point the eight hour sampling frequency was resumed. 12 THP 6020 LAB.038, Techniques of Gaseous Sampling, was revised to allow sampling of the Condenser Air Ejector at an alternate sample point. In addition, Chemical Section Supervisory personnel were counselled concerning the significance of Technical Specification required sampling.



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)  D. C. Cook Nuclear Plant Unit 2	DOCKET NUMBER (2)  0 5 0 0 0 3 1 6	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		9 1	0 0 3	0 0	0 2	OF	0 3

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

Conditions Prior to Occurrence

Unit two (U-2) (EIIS/AB-RCT) in Mode three (Hot Standby).

Description of Event

On March 12, 1991 at 1857, SRA-2905 (EIIS/IL-MON), the Condenser Evacuation System Noble Gas Monitor was declared out of service. From March 13, 1991 at 1948 hours to March 14, 1991 at 1550 hours compensatory sampling in accordance with Technical Specification 3.3.3.10 Table 3.3-13, Item 2a was not conducted due to difficulties in obtaining a sample at the normal sampling point.

On March 13, 1991 at 0651 Unit 2 tripped on load rejection. The unit trip caused an accumulation of water at the sampling point preventing a noble gas sample from being taken. At this time due to difficulties in obtaining a sample, an improper decision was made to discontinue sampling without an approved Technical Specification variance. A Chemical Supervisor assumed that since SRA-2905 was out of service that it could not be used for sampling purposes. Sampling was resumed on March 14, 1991 at 1550 hours. Three noble gas samples were missed.

Cause of the Event

The cause of this event was personnel error. An improper assumption was made that because the sample points were flooded that the noble gas sample was not required.

Contributing factors to this event were the accumulation of water at the normal noble gas sampling point and chemistry section personnel unfamiliarity with the noble gas monitor. Water accumulation at the monitor is a common occurrence. However, this has been overcome in the past in a very few hours. In this event the magnitude of the water accumulation was far in excess of any previous event.

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FACILITY NAME (1)  D. C. Cook Nuclear Plant Unit 2	DOCKET NUMBER (2)  0   5   0   0   0   3   1   6	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		9   1	—   0   0   3	—   0   0	0   3	OF	0   3

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

Analysis of Event

Technical Specification 3.3.3.10 Table 3.3-13, Item 2a Action 28 requires that with less than the minimum number of channels operable, effluent releases may continue via this pathway for up to thirty days provided that grab samples are taken at least once per eight hours and that these grab samples were analyzed every twelve hours. The failure to obtain a grab sample every eight hours is a violation of Technical Specification 3.3.3.10 and reportable under 10 CFR 50.73(a)(2)(i).

No radioactivity has been detected in the Unit 2 secondary system since the Steam Generator Repair Project. In addition, the Steam Generator Blowdown Radiation Monitors were operable and would have indicated a radioactivity transient in the secondary system. Therefore, we believe this event did not pose a threat to the health and safety of the public.

Corrective Action

After discovery of an appropriate sampling point the eight hour sampling frequency was resumed. 12 THP 6020 LAB.038, Techniques of Gaseous Sampling, was revised to allow sampling of the Condenser Air Ejector at an alternate sample point when excessive water prevents sampling at the normal sample point. In addition, Chemical Section Supervisory personnel have been counselled concerning the significance of Technical Specification required sampling.

Failed Component Identification

Plant Identification Number: 2-SRA-2900 (Unit 2, Steam Jet Air Ejector  
After Condensers Vent Radiation Monitor)

Manufacturer: Eberline Instrument Corporation  
Model Number: SPING-3  
EIIIS Code: EIIIS/IL-MON

Previous Similar Events

316/85-043, 316/85-012; 315/84-029, 315-84-026.

