

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)  
DONALD C. COOK NUCLEAR PLANT UNIT 2

DOCKET NUMBER (2)

0 5 0 0 0 3 1 6 1 OF 0 2

TITLE (4)  
MISSED VENT STACK SAMPLE

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)
03	27	85	85	009	000	04	25	85			0 5 0 0 0
											0 5 0 0 0

OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)									
1	20.402(b)		20.406(a)		50.73(a)(2)(iv)		73.71(b)			
POWER LEVEL (10) 1 0 0	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)(vi)		OTHER (Specify in Abstract below and in Text NRC Form 366A)			
	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	TELEPHONE NUMBER
T. A. KRIESEL - TECHNICAL PHYSICAL SCIENCES DEPARTMENT SUPERINTENDENT	AREA CODE 616 465-5901

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

SUPPLEMENTAL REPORT EXPECTED (14)

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

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

ON MARCH 27, 1985 AT 1430 HOURS WITH THE REACTOR IN MODE ONE (OPERATING) AT 100 PERCENT THERMAL POWER THE MONTHLY VENT STACK COMPOSITE SAMPLE WAS LOST. TECHNICAL SPECIFICATION 4.11.2.1.2 TABLE 4.11.2 REQUIRES THE ANALYSIS OF A MONTHLY AUXILIARY BUILDING VENT STACK COMPOSITE FOR ALPHA AND A QUARTERLY COMPOSITE FOR STRONTIUM-89 AND STRONTIUM-90. THE MONTHLY SAMPLE WAS LOST AND THE QUARTERLY SAMPLE WILL NOT BE REPRESENTATIVE DUE TO THE MISSING SAMPLE.

THE VENT STACK PARTICULATE FILTERS FOR MARCH 1985 WERE PLACED IN A BEAKER CONTAINING FUMING NITRIC ACID. TO AID IN DISSOLVING THE FILTERS FOR ISOTOPIC EXTRACTION THE MIXTURE WAS STIRRED. DURING THE STIRRING THE GLASS BEAKER WAS BROKEN, SPILLING THE CONTENTS. DUE TO THE DANGEROUS NATURE OF THE SOLVENT, SAFETY MEASURES FOR THE LABORATORY TECHNICIAN TOOK PRECEDENCE OVER THE CONSERVATION OF THE SAMPLE.

TO PREVENT RECURRENCE PLANT CHEMICAL LABORATORY PERSONNEL HAVE BEEN COUNSELED IN PROPER HANDLING TECHNIQUES WHEN USING BREAKABLE EQUIPMENT, DANGEROUS CHEMICALS AND IRRETRIEVABLE TECHNICAL SPECIFICATION SAMPLES.

THE HEALTH AND SAFETY OF THE PUBLIC WAS NOT AFFECTED.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) DONALD 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			
		8 5	— 0 0 9	— 0 0	0 2	OF	0 2

TEXT (If more space is required, use additional NRC Form 308A's) (17)

ON MARCH 27, 1985 AT 1430 HOURS WITH THE REACTOR IN MODE ONE (OPERATING) AT 100 PERCENT THERMAL POWER THE MONTHLY VENT STACK COMPOSITE SAMPLE WAS LOST. TECHNICAL SPECIFICATION 4.11.2.1.2 TABLE 4.11.2 REQUIRES THE ANALYSIS OF A MONTHLY AUXILIARY BUILDING VENT STACK COMPOSITE FOR ALPHA AND A QUARTERLY COMPOSITE FOR STRONTIUM-89 AND STRONTIUM-90. THE MONTHLY SAMPLE WAS LOST AND THE QUARTERLY SAMPLE WILL NOT BE REPRESENTATIVE DUE TO THE MISSING SAMPLE.

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PREVIOUS VENT STACK ANALYSIS FOR ALPHA ACTIVITY HAS RESULTED IN NO DETECTABLE ACTIVITY (LESS THAN  $1.18\text{E}-13$  MICRO CURIES PER MILLILITER). STRONTIUM-89 AND STRONTIUM-90 RESULTS HAVE BEEN BETWEEN  $1.20\text{E}-15$  and  $4.14\text{E}-15$  MICRO CURIES PER MILLILITER. ALL SAMPLES HAVE BEEN WELL BELOW THE TECHNICAL SPECIFICATION LIMIT OF  $1\text{E}-11$  MICRO CURIES PER MILLILITER. SINCE THERE WERE NO INDICATIONS OF INCREASED REACTOR COOLANT ACTIVITY AND THERE WERE NO UNPLANNED UNIDENTIFIED RELEASES DURING THIS PERIOD, IT IS FELT THAT THE VENT STACK ACTIVITY WOULD NOT HAVE BEEN SIGNIFICANTLY HIGHER DURING THE TIME OF THE LAST SAMPLE COLLECTION.

TO PREVENT RECURRENCE PLANT CHEMICAL LABORATORY PERSONNEL HAVE BEEN COUNSELED IN PROPER HANDLING TECHNIQUES WHEN USING BREAKABLE EQUIPMENT, DANGEROUS CHEMICALS AND IRRETRIEVABLE TECHNICAL SPECIFICATION SAMPLES.

THE HEALTH AND SAFETY OF THE PUBLIC WAS NOT AFFECTED.



**INDIANA & MICHIGAN ELECTRIC COMPANY**

DONALD C. COOK NUCLEAR PLANT  
P.O. Box 458, Bridgman, Michigan 49106  
(616) 465-5901

April 25, 1985

United States Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Operating License DPR-74  
Docket No. 50-316

Document Control Manager:

In accordance with the criteria established by 10CFR50.73  
entitled Licensee Event Reporting System, the following  
report/s are being submitted:

RO 85-009-0

Sincerely,

*W.G. Smith, Jr.*  
for W.G. Smith, Jr.  
Plant Manager

/cbm

Attachment

cc: John E. Dolan  
J.G. Keppler, RO:III  
M.P. Alexich  
R.F. Kroeger  
H.B. Brugger  
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