

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	PAGE (3) 1 OF 0 1
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TITLE (4)
UNIT VENT EFFLUENT TRITIUM

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)																																																																															
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<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">OPERATING MODE (9)</td> <td style="width:15%;">1</td> <td colspan="10">THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)</td> </tr> <tr> <td rowspan="5">POWER LEVEL (10)</td> <td>0 8 1</td> <td>20.402(b)</td> <td></td> <td>20.405(c)</td> <td></td> <td>50.73(a)(2)(iv)</td> <td></td> <td>73.71(b)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>20.405(a)(1)(i)</td> <td></td> <td>50.36(c)(1)</td> <td></td> <td>50.73(a)(2)(v)</td> <td></td> <td>73.71(c)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>20.405(a)(1)(ii)</td> <td></td> <td>50.36(c)(2)</td> <td></td> <td>50.73(a)(2)(vii)</td> <td></td> <td>OTHER (Specify in Abstract below and in Text, NRC Form 366A)</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>20.405(a)(1)(iii)</td> <td>X</td> <td>50.73(a)(2)(i)</td> <td></td> <td>50.73(a)(2)(viii)(A)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>20.405(a)(1)(iv)</td> <td></td> <td>50.73(a)(2)(ii)</td> <td></td> <td>50.73(a)(2)(viii)(B)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>20.405(a)(1)(v)</td> <td></td> <td>50.73(a)(2)(iii)</td> <td></td> <td>50.73(a)(2)(ix)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>												OPERATING MODE (9)	1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)										POWER LEVEL (10)	0 8 1	20.402(b)		20.405(c)		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)	X	50.73(a)(2)(i)		50.73(a)(2)(viii)(A)							20.405(a)(1)(iv)		50.73(a)(2)(ii)		50.73(a)(2)(viii)(B)							20.405(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(ix)					
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LICENSEE CONTACT FOR THIS LER (12)

NAME T. A. KRIESEL - TECHNICAL PHYSICAL SCIENCES DEPARTMENT SUPERINTENDENT	TELEPHONE NUMBER AREA CODE 6 1 6 4 6 5 - 5 9 0 1
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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

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

ON JANUARY 17, 1986 AT 1100 HOURS, WITH THE REACTOR COOLANT SYSTEM IN MODE 1 (POWER OPERATION) AT 81 PERCENT REACTOR THERMAL POWER, IT WAS DISCOVERED THAT FLOW HAD STOPPED FOR CONTINUOUS TRITIUM SAMPLING OF THE UNIT VENT EFFLUENT (IEEE/COL). THIS RESULTED IN NON-COMPLIANCE WITH TECHNICAL SPECIFICATION 4.11.2.1.2 TABLE 4.11-2 ITEM D.

INVESTIGATION INTO THE NO FLOW CONDITION REVEALED THAT BETWEEN DECEMBER 26, 1985 AND JANUARY 17, 1986 THE CONTINUOUS TRITIUM SAMPLING FOR THE AUXILIARY BUILDING VENT WAS NOT PERFORMED. ON DECEMBER 26, IT WAS DISCOVERED THAT VRS-2500, THE UNIT VENT EFFLUENT MONITOR, COULD NOT MAINTAIN FLOW DUE TO SAMPLING LINE BLOCKAGE BY ICE. FURTHER INVESTIGATION REVEALED THAT THE BLOCKAGE OCCURRED DUE TO IMPROPER HEAT TRACING ON THE SYSTEM. THE ICE WAS REMOVED, HEAT TRACING REPAIRED, AND CONTINUOUS TRITIUM SAMPLING WAS RE-ESTABLISHED ON JANUARY 17, 1986.

THE SAMPLE OF TRITIUM MEDIA COLLECTED ON JANUARY 17, 1986 WAS ANALYZED BASED ON FLOW FROM DECEMBER 20, 1985 (PREVIOUS SAMPLE DATE) TO DECEMBER 26, 1985 (DATE VENT STACK MONITOR INOPERABLE). IT WAS FOUND TO BE BELOW THE TECHNICAL SPECIFICATION LOWER LIMIT OF DETECTABILITY. THIS WOULD EQUATE TO LESS THAN 0.137 MREM/YEAR WHICH WOULD HAVE LITTLE EFFECT ON THE YEARLY TECHNICAL SPECIFICATION LIMIT OF LESS THAN OR EQUAL TO 1500 MREM/YEAR TO ANY ORGAN. NO OPERATIONS TOOK PLACE BETWEEN DECEMBER 26, 1985 AND JANUARY 17, 1986 WHICH WOULD HAVE BEEN EXPECTED TO HAVE CAUSED ELEVATED TRITIUM VALUES. THE REMAINDER OF THE SAMPLING PERIOD (DECEMBER 27, 1985 - JANUARY 17, 1986) WAS CONSIDERED UNMONITORED.

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THE HEALTH AND SAFETY OF THE PUBLIC WERE NOT AFFECTED.



INDIANA & MICHIGAN ELECTRIC COMPANY

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

February 18, 1986

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:

86-001-00

Sincerely,

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
R.W. Jurgensen
NRC Resident Inspector
R.C. Callen, MPSC
G. Charnoff, Esq.
D. Hahn
INPO
PNSRC
A.A. Blind
Dottie Sherman, ANI Library
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