

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
D.C. COOK NUCLEAR PLANT, UNIT 1DOCKET NUMBER (2)
0 5 0 0 0 3 1 5 1 OF 0 2TITLE (4)
STEAM GENERATOR/PRESSURIZER ENCLOSURE - FORM PLATE EVALUATION

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	9	0	5	8	5	8	5	0	4	5	0	1	1	2	2	0	8	5	D.C. COOK UNIT - 2	0	5	0	0	0	3	1	6
										0 5 0 0 0 1 1																	

OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (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)(vii)		X OTHER (Specify in Abstract below and in Text, NRC Form 366A)	
				20.405(a)(1)(iii)		50.73(a)(2)(i)		50.73(a)(2)(viii)(A)		SPECIAL REPORT	
				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)(x)					

LICENSEE CONTACT FOR THIS LER (12)
NAME
J.F. STIETZEL - QUALITY CONTROL SUPERINTENDENTTELEPHONE NUMBER
AREA CODE
6 1 1 6 4 6 5 - 5 9 0 1

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 ☒ X
EXPECTED SUBMISSION DATE (15)
MONTH DAY YEAR

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

ON SEPTEMBER 5, 1985, WE DETERMINED THAT ATTACHMENTS WERE BEING MADE TO THE STEEL FORM PLATES WHICH FORM AN INTEGRAL PART OF THE INNER SURFACE OF THE PRESSURIZER AND STEAM GENERATOR CONCRETE ENCLOSURES. AT THE TIME OF DISCOVERY BOTH UNITS WERE IN MODE 5. THESE PLATES WERE NOT INTENDED TO BE UTILIZED FOR ATTACHMENTS. HOWEVER LIGHT LOADS SUCH AS ELECTRICAL CONDUITS WERE FOUND TO BE ATTACHED TO THE PLATES. ON SEPTEMBER 19, 1985, THIS CONDITION WAS VERBALLY REPORTED TO THE NUCLEAR REGULATORY COMMISSION.

BECAUSE OF THIS CONDITION WE INITIATED A PROGRAM WHICH ENCOMPASSED THE FOLLOWING REVIEW: ADEQUACY OF ATTACHMENTS MADE TO THE FORM PLATES, ADEQUACY OF ATTACHMENT OF FORM PLATES TO CONCRETE ENCLOSURE, AND MATERIAL CERTIFICATIONS. THIS REVIEW HAS BEEN COMPLETED AND IT WAS DETERMINED THAT THE FORM PLATES AND ATTACHMENTS WERE CAPABLE OF RESISTING THEIR INTENDED DESIGN BASIS LOADS AND THAT THE AS FOUND CONDITION OF THE FORM PLATES DID NOT CREATE AN UNREVIEWED SAFETY QUESTION AS DEFINED IN 10CFR50.59.

THIS IS AN UPDATED REPORT FOR BOTH UNITS AND BEING SUBMITTED AS A SPECIAL REPORT BASED ON THE EVALUATION CONTAINED IN THIS REPORT WE ARE REQUESTING THAT THE INTERIM LER 35-45-0 WHICH WE SUBMITTED ON OCTOBER 4, 1985, BE WITHDRAWN.

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PDR ADOCK 05000315
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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

FACILITY NAME (1) D.C. COOK NUCLEAR PLANT, UNIT 1	DOCKET NUMBER (2) 0 5 0 0 0 3 1 5	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 5 —	0 4 5 —	0 1	0 2	OF	0 2

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

ON SEPTEMBER 19, 1985, WITH BOTH UNIT 1 AND UNIT 2 IN MODE 5, NOTIFICATION WAS MADE TO THE NRC THAT WE HAD MADE ATTACHMENTS TO THE STEEL FORM PLATES WHICH WERE ORIGINALLY UTILIZED AS FORM PLATES FOR THE STEAM GENERATOR AND PRESSURIZER CONCRETE ENCLOSURES FOR BOTH UNITS. THESE FORM PLATES WERE LEFT IN PLACE AND BECAME AN INTEGRAL PART OF THE STEAM GENERATOR AND PRESSURIZER ENCLOSURE. THESE FORM PLATES WERE NOT INTENDED TO BE UTILIZED FOR DIRECT ATTACHMENTS AS IT WAS ENVISIONED THAT WHEN ATTACHMENTS WERE REQUIRED TO BE MADE TO THE SURFACES OF THE CONCRETE HOUSING THEY WOULD BE ATTACHED TO EMBEDMENTS BY REMOVING A SECTION OF THIS FORM PLATE. OVER A PERIOD OF TIME SOME LIGHT LOADS, SUCH AS ELECTRICAL CONDUITS, WERE ATTACHED TO THESE FORM PLATES.

A SAMPLE OF THESE FORM PLATES WERE SENT TO AN INDEPENDENT LABORATORY FOR PHYSICAL AND METALLURGICAL ANALYSIS. A DESIGN REVIEW WAS PERFORMED ON THE AS FOUND ANCHORING OF THESE PLATES TO THE ENCLOSURES AND IT WAS DECIDED TO ENHANCE THE ATTACHMENT OF THESE FORM PLATES BY ADDING ADDITIONAL ANCHORS. VISUAL EXAMINATIONS WERE PERFORMED ON WELDS MADE ON ATTACHMENTS TO THE FORM PLATES TO DETERMINE THE ACCEPTABILITY OF THESE WELDS. AS A RESULT OF THESE EXAMINATIONS, WHEN DEEMED APPROPRIATE, THESE WELDS WERE REWORKED TO ENSURE THAT ALL DESIGN CRITERIA WERE SATISFIED AND THAT GOOD ENGINEERING PRACTICE WAS ACHIEVED.

THE DETAILS OF THE REANCHORING OF THE FORM PLATES TO THE ENCLOSURE WALLS ARE DOCUMENTED IN DESIGN CHANGE 12-2891. AN EVALUATION OF THE AS-FOUND CONCRETE FORM PLATE ATTACHMENT TO THE WALL WAS COMPLETED BY STEVENSON AND ASSOCIATES (REPORT NO. 0967C-85C1391). EVALUATIONS WERE ALSO MADE CONCERNING STEAM GENERATOR AND PRESSURIZER FORM PLATE MATERIAL AND, THE FORM PLATE ATTACHMENTS (SMALL ELECTRICAL CONDUITS, INSTRUMENT TUBES, AND HVAC DUCTS). THESE EVALUATIONS REVEALED THAT THE ANCHORAGE FOR THE FORM PLATES WERE CAPABLE OF CARRYING THEIR OWN WEIGHT PLUS THE ATTACHED EQUIPMENT WITHOUT LOSS OF STRUCTURAL INTEGRITY.

A SAFETY REVIEW OF THE ABOVE EVALUATION WAS PERFORMED AND IT WAS DETERMINED THAT THE FORM PLATES AND ATTACHMENTS WERE CAPABLE OF RESISTING THEIR INTENDED DESIGN BASIS LOADS AND THAT THE AS FOUND CONDITION OF THE FORM PLATES DID NOT CREATE AN UNREVIEWED SAFETY QUESTION AS DEFINED IN 10CFR50.59. BASED ON THE ENHANCEMENTS PERFORMED THAT WERE IMPLEMENTED IN ACCORDANCE WITH APPROVED DESIGN CRITERIA WE FEEL THAT CURRENT STRUCTURES HAVE BEEN DESIGNED AND ARE IN CONFORMANCE WITH ALL APPLICABLE DESIGN CRITERIA.

THIS IS AN UPDATED REPORT FOR BOTH UNITS AND BEING SUBMITTED AS A SPECIAL REPORT BASED ON THE EVALUATION CONTAINED IN THIS REPORT WE ARE REQUESTING THAT THE INTERIM LER 85-45-0 WHICH WE SUBMITTED ON OCTOBER 4, 1985, BE WITHDRAWN.



INDIANA & MICHIGAN ELECTRIC COMPANY

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

December 20, 1985

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

Operating License DPR-58
Docket No. 50-315

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 85-045-1

Sincerely,

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
File

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