

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 14381

FILE: _____

FROM: Indiana & Michigan Pwr Co New York, NY J. Tillinghast			DATE OF DOC 12-29-75	DATE REC'D 12-31-75	LTR XXX	TWX	RPT	OTHER
TO: Mr Rusche			ORIG one signed	CC	OTHER	SENT NRC PDR <u>XX</u> SENT LOCAL PDR <u>XX</u>		
CLASS	UNCLASS XXXXX	PROP INFO	INPUT	NO CYS REC'D 1		DOCKET NO: <u>50-315/316</u>		

DESCRIPTION:
Ltr re our 11-26-75 ltr.....furnishing addl info concerning the reactor vessel support system.....

ENCLOSURES:
[Faint handwritten notes and stamps]

PLANT NAME: D C Cook 1 & 2

FOR ACTION/INFORMATION 1-6-76 ehf

BUTLER (L) W/ Copies	SCHWENCER (L) W/ Copies	ZIEMANN (L) W/ Copies	REGAN (E) W/ Copies	REID (L) W/ COPIES
CLARK (L) W/ Copies	STOLZ (L) W/ Copies	DICKER (E) W/ Copies	LEAR (L) W/ Copies	<i>Schwel</i>
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KNIEL (L) W/2 Copies	PURPLE (L) W/ Copies	YOUNGBLOOD (E) W/ Copies	LPM Benedict W/ Copies	<i>Trammell</i>
				<i>Ferguson</i>
				<i>Varga</i>

INTERNAL DISTRIBUTION

REG FILE NRC PDR OGC, ROOM P-506A GOSSICK/STAFF CASE BOYD MCORE (L) DEYOUNG (L) SKOVHOLT (L) GOLLER (L) (Ltr) P. COLLINS DENISE REG OPR FILE & REGION (2) MIPC	TECH REVIEW SCHROEDER MACCARY KNIGHT PAWLICKI SHAO STELLO HOUSTON NOVAK ROSS IPPOLITO TEDESCO J. COLLINS LAINAS BENAROYA VOLLMER	DENTON GRIMES GAMMILL KASTNER BALLARD SPANGLER ENVIRO MULLER DICKER KNIGHTON YOUNGBLOOD REGAN PROJECT LDR <i>Cota</i> <i>WARRLESS</i>	LIC ASST R. DIGGS (L) H. GEARIN (L) E. GOULBOURNE (L) P. KREUTZER (E) J. LEE (L) M. RUSHBROOK (L) S. REED (E) M. SERVICE (L) S. SHEPPARD (L) M. SLATER (E) H. SMITH (L) S. TEETS (L) G. WILLIAMS (E) V. WILSON (L) R. INGRAM (L) M. DUNCAN (P)	A/T IND BRAITMAN SALTZMAN MELTZ PLANS MCDONALD CHAPMAN DUBE (Ltr) E. COUPE PETERSON HARTFIELD (2) KLECKER EISENHUT WIGGINTON K. PARRISH (L)
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EXTERNAL DISTRIBUTION

1 - LOCAL PDR <i>St Joseph, MI</i>	1 - NATIONAL LABS	1 - PDR-SAN/LA/NY
1 - TIC (ABERNATHY) (1)(2)(10)	1 - W. PENNINGTON, Rm E-201 GT	1 - BROOKHAVEN NAT LAB
1 - NSIC (EUCHANAN)	1 - CONSULTANTS	1 - G. ULRICKSON ORNL
1 - ASLB	NEWMARK/BLUME/AGBABIAN	
1 - Newton Anderson		
1 - ACRS HOLDING/SENT TO LA Service		



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INDIANA & MICHIGAN POWER COMPANY

P. O. BOX 18
BOWLING GREEN STATION
NEW YORK, N. Y. 10004

December 29, 1975

Donald C. Cook Nuclear Plant
Docket No. 50-315 and 50-316
DPR No. 58
CPPR No. 61

REGULATORY DOCUMENT COPY

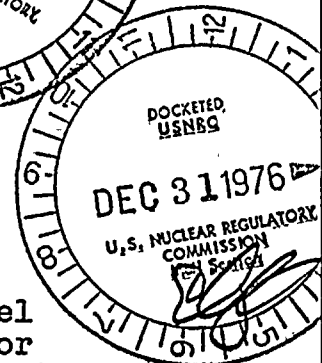
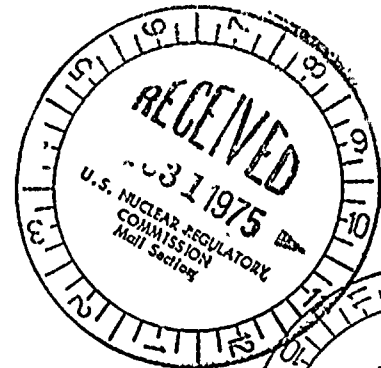
Mr. Benard Rusche, Director
Office of the Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Rusche:

The letter of November 26, 1975 from Karl Kniel requested that we review the design bases for the reactor vessel support system for the Donald C. Cook Nuclear Plant to determine whether the transient loads, described in the enclosure to that letter, were taken into account appropriately in the design.

With respect to loading due to blowdown jet forces, the design of the reactor vessel supports took into account jet forces due to a rupture of either the hot leg or cold leg pipe of the reactor coolant system within the pipe penetration sleeve. Both guillotine and longitudinal ruptures were considered. This evaluation was performed employing the analysis methods available at the time of the design.

The methods for the analysis of asymmetric loads were developed only recently and were not available at the time of the Donald C. Cook Nuclear Plant's design. Therefore, the two other loads mentioned in your letter, namely (1) the transient differential pressure in the annular region between the reactor vessel and the shield wall and (2) the transient



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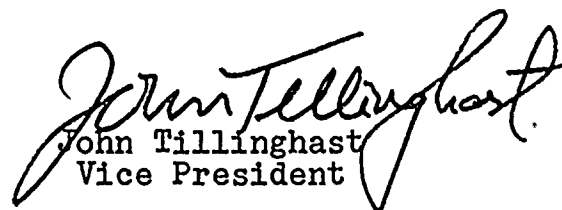
Mr. Benard Rusche

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December 29, 1975

differential pressure across the core barrel within the reactor vessel, were not considered in the design of the reactor vessel supports.

Very truly yours,


John Tillinghast
Vice President

JT:mam

cc: G. Charnoff
R. Walsh
R. J. Vollen
R. C. Callen
P. W. Steketee
R. S. Hunter
R. W. Jurgensen - Bridgman

THE UNITED STATES OF AMERICA
DO hereby certify that

the following is a true and correct copy

of the original as the same appears on file

in the office of the
Secretary of the
Department of the
Interior
at Washington, D. C.
this 1st day of
January, 1900.