

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 7906220293 DOC. DATE: 79/06/20 NOTARIZED: NO DOCKET #
 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana & 05000315
 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316
 AUTH. NAME AUTHUR AFFILIATION
 HERING, R.F. Indiana & Michigan Power Co.
 RECIP. NAME RECIPIENT AFFILIATION
 SCHWENCER, A. Operating Reactors Branch 1

SUBJECT: submits addl info requested after review of AEP:NRC:00186A
 dtd 790504 & NRC 790619 telecon re reanalysis of pressurizer
 surge line.

DISTRIBUTION CODE: A001S COPIES RECEIVED: LTR 1 ENCL 2 SIZE: 3
 TITLE: GENERAL DISTRIBUTION FOR AFTER ISSUANCE OF OPERATING LIC

NOTES: I & E - 3 CYS ALL MATL.

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
ACTION:	05 BC ORB #1	7		
INTERNAL:	01 REG FILE	1	02 NRC PDR	1
	12 I&E	2	14 TA/EDO	1
	15 CORE PERF BR	1	16 AD SYS/PROJ	1
	17 ENGR BR	1	18 REAC SFTY BR	1
	19 PLANT SYS BR	1	20 EEB	1
	21 EFLT TRT SYS	1	22 BRINKMAN	1
	OELD	1		
EXTERNAL:	03 LPDR	1	04 NSIC	1
	23 ACRS	16		

JUN 25 1979

TOTAL NUMBER OF COPIES REQUIRED: LTTR 39 ENCL 38

MA 4
6

REGULATORY DOCKET FILE COPY

INDIANA & MICHIGAN POWER COMPANY

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

June 20, 1979
AEP:NRC:00186B

Donald C. Cook Nuclear Plant Unit Nos. 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74

Mr. A. Schwencer, Chief - Branch No. 1
Division of Operating Reactors
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. D. L. Wigginton

Dear Mr. Schwencer:

This letter transmits additional information concerning our submittal No. AEP:NRC:00186A dated May 4, 1979 and requested by members of the NRC staff in a telephone conversation held on June 19, 1979. Each item requested and our response is presented below:

Topic: Additional Information Regarding the
Reanalysis of Pressurizer Surge Line

Question No. 1

Do both units of the Cook Plant have a 14 inch surge line to the pressurizer?

Response

Both units of the Cook Plant have a 14 inch surge line to the pressurizer.

Question No. 2

Are the physical geometry and pipe support locations the same for both units of the Cook Plant?

Response

Yes, the geometry and support locations are the same for both units except Unit No. 2 is the "opposite hand" of Unit No. 1.

7906220 293

A001
S 1/0

Question No. 3

Were the terminal ends of the surge line checked against the stress criteria of the B31.1 - 1967 Power Piping Code?

Response

The calculated stresses at the terminals of the surge lines were checked and are within the allowable limits of the B31.1 Code, 1967 edition.

Question No. 4

What piping code was used for the pressurizer surge line?

Response

The surge line was designed in accordance with the 1967 B31.1 Power Piping Code and was erected in accordance with the B31.7 Code, 1969 edition.

Question No. 5

Confirm that the reanalysis utilized "as built" conditions. How and when was this fact verified?

Response

The physical parameters used in the reanalysis of the surge line were obtained after initial installation of the line. A review of our records indicates that the surge line geometry has not been modified since initial installation. Thus, the physical parameters used in the reanalysis represent "as built" conditions. Furthermore, after the phone conversation with your staff, the pressurizer surge lines were "walked" and the preceding fact confirmed.

Question No. 6

Does the reanalysis result in a change in the break locations?

Response

The results of the reanalysis have no effect on the break point locations. When the original analysis of the surge line was performed, breaks were postulated at each change in direction of the line. This criterion is more conservative than the present requirements, which postulate circumferential breaks at high stress points in the line.

Question No. 7

What version of the WESTDYN code was used for the reanalysis?

Response

The current revision of WESTDYN was used. This version of the code has been verified and its documentation submitted to the NRC in WCAP-8252 Rev. 1.

Question No. 8

What method of stress combination was used in the reanalysis?

Response

The intramodal responses due to each horizontal and vertical shock wave were combined by absolute summation. The intermodal responses were then combined by the square-root-sum of the squares (SRSS) method.

Question No. 9

Are any Velan valves installed in the pressurizer surge lines?

Response

No, there are no valves in the pressurizer surge lines.

As the information transmitted herein is being submitted at the request of members of the NRC staff, AEP interprets 10 CFR 170.22 as requiring that no fee accompany this submittal.

Very truly yours,



R. F. Hering
Vice President

RFH:clb

cc: John E. Dolan
R. S. Hunter
R. W. Jurgensen
D. V. Shaller - Bridgman
R. C. Callen
G. Charnoff