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DOLAN,J.E. Indiana & Michigan Power Co.
RECIP.NAME RECIPIENT AFFILIATION
DENTON,H.R. Office of Nuclear Reactor Regulation

SUBJECT: Amends info contained in 790504 & 08 Submittals. Floor response damping factor used to determine upset condition stresses was 4% instead of appropriate 2%.

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INDIANA & MICHIGAN POWER COMPANY
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July 27, 1979
AEP:NRC:00186C



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

References: (1) AEP:NRC:00182
Dated May 8, 1979
(2) AEP:NRC:00186A
Dated May 4, 1979

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Denton:

This letter serves to amend the information contained in our AEP:NRC:00182 and AEP:NRC:00186A submittals, dated May 8, 1979 and May 4, 1979, respectively.

We have been informed by Westinghouse that the floor response damping factor used in the determination of the maximum upset condition (OBE + normal) stresses reported in our recent submittals referenced above was four percent (4%). Specifically, Westinghouse utilized a floor response based on a four percent (4%) structural damping factor for the analyses of the Pressurizer Surge Line and the six inch Safety Injection Lines to the Reactor Coolant System Hot Legs (the latter applicable to Unit 1 only). The appropriate structural damping factor of two percent (2%) corresponding to the upset condition has been used in the reanalysis of these lines. The results of the reanalyses are attached.

Subsequent to completion of the reanalysis of the Pressurizer Surge Line, Westinghouse has reevaluated the loads on the Pressurizer Surge Line Nozzle and determined that the loads are within the allowable limits.

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The results of this reevaluation clearly indicate that the maximum hypothetical combined upset condition stresses in the Pressurizer Surge Line and the six inch Hot Leg Injection Lines of Unit 1 are well within the allowable values set forth in the B31.1 Power Piping Code, 1967 edition.

Very truly yours,

John E. Dolan
Vice President

JED/emc
Attachment

Sworn and subscribed to before me
this 27th day of July, 1979 in
New York County, New York

Notary Public

GREGORY M. GURICAN
Notary Public, State of New York
No. 31-4643431
Qualified in New York County
Commission Expires March 30, 1981

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

ATTACHMENT TO AEP:NRC:00186C

## (1) STRESS SUMMARY FOR PRESSURIZER SURGE LINE D. C. COOK UNIT NOS. 1 AND 2

| LOADING CONDITION | LOCATION | CALCULATED STRESS/LOAD | ALLOWABLE STRESS/LOAD | MARGIN |
|---|---|---|---|---|
| OBE + NORMAL | PIPING | 13496 psi | 19200 psi | 5704 psi |
| | INTERFACE PIPE/ PRESSURIZER NOZZLE | 11874 psi | 19200 psi | 7326 psi |
| | PIPE SUPPORT | 12.96 Kips | 70.0 Kips(*) | 57.04 Kips |
| DBE + NORMAL | PIPING | 21092 psi | 28800 psi(*) | 7708 psi |
| | INTERFACE PIPE/ PRESSURIZER NOZZLE | 17848 psi | 28800 psi(*) | 10952 psi |
| | PIPE SUPPORT | 20.21 Kips | 70.0 Kips(*) | 49.79 Kips |

## (2) SIX-INCH HOT LEG INJECTION LINES (UPSET CONDITION) D. C. COOK UNIT NO. 1

| LOOP # | PIPING STRESS | ALLOWABLE STRESS | MARGIN |
|---|---|---|---|
| 1 | 13,540 psi | 19,200 psi | 5660 psi |
| 2 | 14,483 psi | 19,200 psi | 4717 psi |
| 3 | 16,198 psi | 19,200 psi | 3002 psi |
| 4 | 14,834 psi | 19,200 psi | 4366 psi |

(*) CONSERVATIVE

NOTE: NORMAL = PRESSURE + DEADWEIGHT