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 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
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 ALEXICH, M.P. Indiana & Michigan Electric Co.
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Requests expeditious approval to use provisions noted in
 1980 & 1983 editions of ASME Code, Section 11 re temp
 requirements for components constructed of austenitic steel,
 for inservice insp during Spring 1984 refueling outage.

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September 2, 1983
AEP:NRC:0070K

Donald C. Cook Nuclear Plant Unit Nos. 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
INSERVICE INSPECTION REQUEST TO USE LATER
EDITIONS OF THE ASME CODE

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

Dear Mr. Denton:

This submittal is made pursuant to Title 10 of the Code of Federal Regulations, Part 50.55a (g) (4) (iv), and requests approval to use the provisions noted in the 1980 and 1983 editions of the ASME Code, Section XI, regarding the temperature requirements for components constructed entirely of austenitic steel materials.

Indiana & Michigan Electric Company is presently required to comply with the ASME B&PV Code, Section XI, 1974 edition through summer 1975 addenda, for the first ten year inspection interval for both Units 1 and 2. Sections IWB-5222 (a) and IWC-5220 (a) of the 1974 edition of the Code require that the system hydrostatic test pressure for Class 1 and 2 systems be performed at a test temperature not less than 100° F. The temperature limitation in the 1974 Code is intended for ferritic steels. These steels have a ductile to brittle transition temperature and must be tested at temperatures that guard against unstable crack growth. Austenitic stainless steels, unlike ferritic steels, do not have a ductile to brittle transition temperature, and maintain their fracture toughness to very low temperatures.

Subsequent to the 1974 edition, later Section XI Code editions have increasingly clarified the intent of the code that the test temperature requirement applies only to ferritic materials. In the 1980 edition for Class 2, and the 1983 edition for Classes 1, 2 and 3, austenitic stainless steels are specifically excluded from a test temperature requirement. Therefore, we request approval to follow these later editions of the ASME Code for inspection of the austenitic stainless steel materials.


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Upon receiving the requested approval, the system hydrostatic test temperature at the Donald C. Cook Nuclear Plant for systems comprised entirely of austenitic stainless steels will be ambient temperature, but no lower than 50° F. We wish to make use of the ambient temperature standard for Unit No. 2 during Spring 1984 refueling outage and would appreciate early processing of this request.

This document has been prepared following Corporate procedures which incorporate a reasonable set of controls to insure its accuracy and completeness prior to signature by the undersigned.

Very truly yours,


M. P. Alexich
Vice President

MPA/cam

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