



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

December 29, 1998

50-315/316

Mr. Robert P. Powers, Senior Vice President  
Indiana Michigan Power Company  
Nuclear Generation Group  
500 Circle Drive  
Buchanan, MI 49107

SUBJECT: DONALD C. COOK NUCLEAR PLANT, UNITS 1 AND 2 - EVALUATION OF THE  
THIRD 10-YEAR INTERVAL INSERVICE INSPECTION PROGRAM PLAN AND  
ASSOCIATED REQUESTS FOR RELIEF (TAC NOS. M94871 AND M94872)

Dear Mr. Powers:

By letter dated January 25, 1996, Indiana Michigan Power Company (the licensee) submitted the third 10-year program for the inservice inspection (ISI) program for the D.C. Cook Nuclear Plant. The program contained requests for relief from the requirements of the applicable American Society of Mechanical Engineers (ASME) Code Section XI. In addition, the licensee requested permission to use alternatives to the Code. Additional information was provided by the licensee in subsequent letters dated September 10, 1996, November 7, 1996, and July 8, 1998. The staff has evaluated the information provided by the licensee regarding the relief requested and proposed alternatives. The staff's Safety Evaluation (SE) providing the specific details is enclosed.

Based on the staff's evaluation, it was determined that for Relief Request No. 1 regarding the reactor pressure vessel (RPV) shell welds, Relief Request No. 4, Relief Request No. 5, and Relief Request No. 6, the requirements of the Code are impractical and the reliefs are granted in the third 10-year interval pursuant to 10 CFR 50.55a(g)(6)(i). The relief granted is authorized by law and will not endanger life or property, or the common defense and security, and is otherwise in the public interest given due consideration to the burden upon the licensee that could result if the requirements were imposed on the facilities.

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In addition, based on the staff's evaluation, it was determined that Relief Request No. 1 concerning RPV nozzle-to-vessel welds, Relief Request No. 2, and Relief Request No. 3 are denied because the licensee has not provided adequate information to demonstrate that relief can be granted or an alternative authorized.

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For Proposed Alternatives N-524 and N-491-1, the staff finds that the alternatives are authorized pursuant to 10 CFR 50.55a(a)(3)(i) in that the licensee's proposed alternatives provide an acceptable level of quality and safety. The proposed alternatives are authorized for the current interval or such time as the Code Cases are published in Regulatory Guide 1.147. At that time, if the licensee intends to continue to implement Code Case N-524, the licensee should follow all provisions of the Code Case with the limitations issued in Regulatory Guide 1.147, if any.

The staff evaluated proposed Alternatives N-509 and N-521 and found that they did not provide an acceptable level of quality and safety. Therefore, the proposed alternatives were denied.

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Robert P. Powers

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This completes the staff's evaluation of the third 10-year ISI program for D.C. Cook. If you have any questions, please contact John Stang at (301) 415-1345. This also completes the staff actions under TAC Nos. M94871 and M94872.

Sincerely,

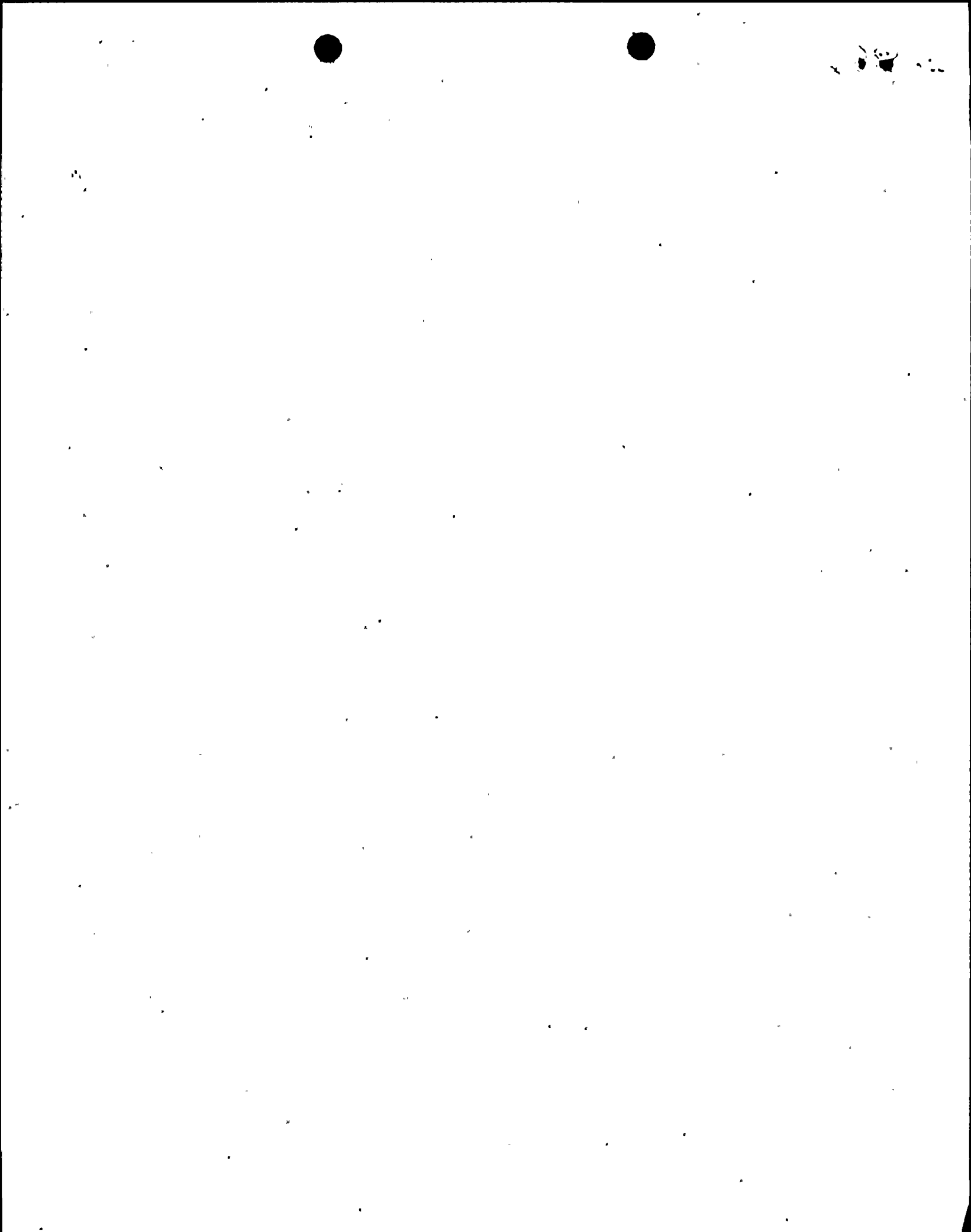


Cynthia A. Carpenter, Director  
Project Directorate III-1  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

Docket Nos. 50-315 and 50-316

Enclosure: Safety Evaluation

cc w/encl: See next page



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Sincerely,

Original signed by:

Cynthia A. Carpenter, Director  
Project Directorate III-1  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

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Robert P. Powers  
Indiana Michigan Power Company

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