

October 26, 1999

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 - REQUEST FOR  
ADDITIONAL INFORMATION RELATED TO LICENSE AMENDMENT  
REQUESTING CREDIT OF ROD CLUSTER CONTROL ASSEMBLIES FOR  
COLD LEG LARGE BREAK LOSS-OF-COOLANT ACCIDENT (LOCA)  
SUBCRITICALITY (TAC NOS. MA6473 AND MA6474)

Dear Mr. Powers:

During the review of your application dated September 17, 1999, documenting your request to take credit for rod cluster assemblies for a cold leg reactor coolant pipe large break LOCA subcriticality, the Nuclear Regulatory Commission staff identified an area in your application which requires further clarification. The following question deals with the leak-before-break (LBB) technology.

Demonstrate that the analysis for normal operating conditions and safe shutdown earthquake for the main reactor coolant loop piping meets the appropriate margins for the application of LBB technology. Your response should consider the replacement of the steam generators in both Units 1 and 2 and any modifications made to the reactor coolant piping and supports since the issuance of the NRC Safety Evaluation Report (SER) dated November 22, 1985. Also, your response should reflect the guidance in NUREG-1061, Volume 3, "Report of the U.S. Nuclear Regulatory Commission Piping Review Committee, Evaluation of Potential for Pipe Breaks," and/or Draft Standard Review Plan Section 3.6.3, "Leak-Before-Break Evaluation Procedures."

The need to provide the additional information and the agreement of the D. C. Cook staff to comply with this request were discussed with members of your staff on October 18 and 19, 1999. A mutually agreed upon due date of November 10, 1999, was established with Mr. Robert Godley of your staff.

Sincerely,  
/s/

John F. Stang, Sr. Project Manager, Section 1  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-315 and 50-316

cc: See next page

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

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Sincerely,

A handwritten signature in black ink, appearing to read "John F. Stang, Sr.", written over a faint, illegible typed name.

John F. Stang, Sr. Project Manager, Section 1  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-315 and 50-316

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Robert P. Powers  
Indiana Michigan Power Company

Donald C. Cook Nuclear Plant  
Units 1 and 2

cc:

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U.S. Nuclear Regulatory Commission  
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Michigan Department of  
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Buchanan, MI 49107

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Resident Inspector's Office  
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Union of Concerned Scientists  
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Buchanan, MI 49107

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Nuclear Generation Group  
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Mayor, City of Bridgman  
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Bridgman, MI 49106

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Nuclear Generation Group  
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Buchanan, MI 49107

Special Assistant to the Governor  
Room 1 - State Capitol  
Lansing, MI 48909

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