

June 12, 1996

Mr. E. E. Fitzpatrick, Vice President  
Indiana Michigan Power Company  
c/o American Electric Power Service Corporation  
1 Riverside Plaza  
Columbus, OH 43215

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - GENERIC LETTER 95-07, "PRESSURE LOCKING AND THERMAL BINDING OF SAFETY-RELATED POWER-OPERATED GATE VALVES," DONALD C. COOK NUCLEAR PLANT, UNITS 1 AND 2 (TAC NOS. M93451 AND M93452)

Dear Mr. Fitzpatrick:

On August 17, 1995, the NRC issued Generic Letter (GL) 95-07, "Pressure Locking and Thermal Binding of Safety-Related Power-Operated Gate Valves," to request that licensees take actions to ensure that safety-related power-operated gate valves that are susceptible to pressure locking or thermal binding are capable of performing their safety functions. The NRC staff is reviewing and evaluating your response to GL 95-07. Additional information, as discussed in the enclosure, is requested in order for the staff to complete its review. We request that you respond within 30 days.

The information requested by this letter is within the scope of the overall burden estimated in Generic Letter 95-07, "Pressure Locking and Thermal Binding of Safety-Related Power-Operated Gate Valves," which was a maximum of 75 hours per response. This request is covered by Office of Management and Budget Clearance Number 3150-0011, which expires July 31, 1997.

If you have any questions on these items please contact me at (301) 415-3017.

Sincerely,

Original Signed By:

John B. Hickman, Project Manager  
Project Directorate III-1  
Division of Reactor Projects - III/IV  
Office of Nuclear Reactor Regulation

Docket No. 50-315  
and 50-316

cc: See next page

Enclosure: As stated

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

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If you have any questions on these items please contact me at (301) 415-3017.

Sincerely,

A handwritten signature in black ink, appearing to read "John B. Hickman", is written over the typed name.

John B. Hickman, Project Manager  
Project Directorate III-1  
Division of Reactor Projects - III/IV  
Office of Nuclear Reactor Regulation

Docket No. 50-315  
and 50-316

cc: See next page

Enclosure: As stated



Mr. E. E. Fitzpatrick  
Indiana Michigan Power Company

cc:

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Donald C. Cook Nuclear Plant

Mr. S. Brewer  
American Electric Power Service  
Corporation  
1 Riverside Plaza  
Columbus, Ohio 43215



REQUEST FOR ADDITIONAL INFORMATION

DONALD C. COOK NUCLEAR PLANT, UNITS 1 AND 2.

RESPONSE TO GENERIC LETTER 95-07, "PRESSURE LOCKING AND

THERMAL BINDING OF SAFETY-RELATED POWER-OPERATED GATE VALVES"

1. In light of the high safety significance and due to the lengthy corrective action schedules for the four containment sump recirculation valves 1-ICM-305, -306, 2-ICM-305, -306, which extends until 1999, the staff believes it is necessary to review the licensee's calculations supporting the operability of these valves. Please provide these calculations for our review.

2. Valves NMO-151, -152, and -153, Pressurizer PORV Block Valves, may be susceptible to pressure locking or thermal binding during a postulated steam generator tube rupture or low temperature overpressurization event. Please discuss how these concerns were addressed at D.C. Cook.

3. In Attachment 1 to GL 95-07, the NRC staff requested that licensees include consideration of the potential for gate valves to undergo pressure locking or thermal binding during surveillance testing. During workshops on GL 95-07 in each Region, the NRC staff stated that, if closing a safety-related power-operated gate valve for test or surveillance defeats the capability of the safety system or train, the licensee should perform one of the following within the scope of GL 95-07:

1. Verify that the valve is not susceptible to pressure locking or thermal binding while closed,
2. Follow plant technical specifications for the train/system while the valve is closed,
3. Demonstrate that the actuator has sufficient capacity to overcome these phenomena, or
4. Make appropriate hardware and/or procedural modifications to prevent pressure locking and thermal binding.

The staff stated that normally open, safety-related power-operated gate valves which are closed for test or surveillance but must return to the open position should be evaluated within the scope of GL 95-07. Please discuss if valves which meet this criterion were included in your review, and how potential pressure locking or thermal binding concerns were addressed.

4. Through review of operational experience feedback, the staff is aware of instances where licensees have completed design or procedural modifications to preclude pressure locking or thermal binding which may have had an adverse impact on plant safety due to incomplete or incorrect evaluation of the potential effects of these modifications. Please describe evaluations and training for plant personnel that have been conducted for each design or procedural modification completed to address potential pressure locking or thermal binding concerns.

