

August 11, 1998

Mr. Joseph V. Sipek  
Director - Licensing  
Clinton Power Station  
P.O. Box 678  
Mail Code V920  
Clinton, IL 61727

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION RELATED TO THE GL 96-06  
RESPONSE FOR THE CLINTON POWER STATION, UNIT 1 (TAC NO. M96796)

Dear Mr. Sipek:

The NRC staff issued Generic Letter (GL) 96-06, "Assurance of Equipment Operability and Containment Integrity During Design-Basis Accident Conditions," by letter dated September 30, 1996. The GL requested licensees to evaluate water hammer, two-phase flow, and thermally induced pressurization of piping runs penetrating containment. You provided your assessment for the Clinton Power Station in letters dated January 28, and July 24, 1997.

In order to complete our review of your resolution of the water hammer and two-phase flow issues, the staff issued a request for additional information (RAI) by letter dated March 12, 1998. You replied to that RAI by letter dated June 15, 1998.

Now, the staff has continued to review your response and has determined that additional information is necessary regarding the issue of thermally induced pressurization. Please provide the information in the enclosed request within 45 days of completion of your evaluations for the modifications.

Contact me if you have any questions.

Sincerely,

Original signed by:  
Jon B. Hopkins, Senior Project Manager  
Project Directorate III-3  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

Docket No. 50-461

Enclosure: Request for Additional  
Information

cc w/encl: See next page

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NAME	JHopkins		EBarnhill	EB			
DATE	8 / 11 / 98		8 / 11 / 98				

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

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RESPONSE FOR THE CLINTON POWER STATION, UNIT 1 (TAC NO. M96796)

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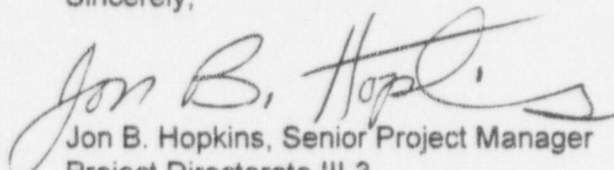
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Joseph V. Sipek  
Illinois Power Company

Clinton Power Station, Unit 1

cc:

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Sargent & Lundy Engineers  
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Chicago, IL 60603

REQUEST FOR ADDITIONAL INFORMATION FOR RESOLUTION OF  
GL 96-06 ISSUES AT THE CLINTON POWER STATION  
(TAC NO. M96796)

In its submittals, Illinois Power (IP) indicated that a total of 22 piping penetrations were susceptible to thermally induced overpressurization. In its submittal of July 24, 1997, IP indicated that 7 piping penetrations would be modified during the next refueling outage (RF-7) in order to eliminate the need to monitor and analyze containment isolation valve leakage.

1. Provide a specific description of the modifications to these 7 penetrations.
2. If the modifications involve heat transfer and/or structural analyses of the pipe segments, then the following information should be provided:
  - a. Provide the applicable design criteria for the piping and valves. Include the required load combinations;
  - b. Provide a drawing of the piping run between the isolation valves. Include the lengths and thicknesses of the piping segments and the type and thickness of the insulation;
  - c. Provide the maximum-calculated temperature and pressure for the pipe run. Describe, in detail, the method used to calculate these pressure and temperature values. This should include a discussion of the heat transfer model used in the analysis and the basis for the heat transfer coefficients used in the analysis.

Enclosure