



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

May 18, 1994

Docket No. 50-333

Mr. William A. Josiger, Acting
Executive Vice President, Nuclear
Generation
Power Authority of the State of
New York
123 Main Street
White Plains, New York 10601

Dear Mr. Josiger:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - APPENDIX R ASSESSMENT OF SAFE
SHUTDOWN CAPABILITY FOR THE JAMES A. FITZPATRICK NUCLEAR POWER PLANT
(TAC NO. M84780)

By letter dated October 26, 1992, the Power Authority of the State of New York (PASNY) submitted its 1992 reassessment of safe shutdown capability for the James A. FitzPatrick Nuclear Power Plant, titled "Safe Shutdown Capability Reassessment, 10 CFR 50 Appendix R, September 1992." The revised analysis proposed that low pressure injection systems (i.e., Automatic Depressurization System (ADS)/Low Pressure Coolant Injection (LPCI) or ADS/Core Spray (CS)) be used as a means of achieving and maintaining hot shutdown conditions in the event of fire in certain areas not requiring alternate shutdown from outside the Control Room.

The NRC staff has reviewed the information provided by PASNY and identified the need for additional information regarding the stated use of low pressure injection systems in order to complete our review. We, therefore, request that PASNY provide a response to the questions enclosed. In order to support completion of our review in a timely manner, we request a response within 60 days of receipt of this letter.

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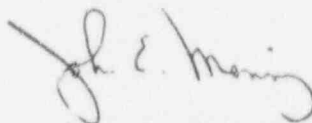
Mr. William A. Josiger

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May 18, 1994

This requirement affects one respondent and, therefore, is not subject to Office of Management and Budget review under P.L. 96-511.

Sincerely,



John E. Menning, Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

Mr. William A. Josiger, Acting
Power Authority of the State of New York

James A. FitzPatrick Nuclear
Power Plant

cc:

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Mr. Richard L. Patch, Acting
Vice President - Appraisal
and Compliance Services
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of New York
123 Main Street
White Plains, New York 10601

REQUEST FOR ADDITIONAL INFORMATION

FITZPATRICK APPENDIX R SAFE SHUTDOWN CAPABILITY ASSESSMENT

1. Provide information which demonstrates that hot shutdown conditions can be maintained by the stated use of ADS in combination with low pressure injection systems, as required by 10 CFR Part 50, Appendix R.
2. Section III.L of 10 CFR Part 50, Appendix R, requires, in part, that during post-fire shutdown, the reactor coolant system process variables be maintained within those predicted for a loss of normal AC power and that the reactor coolant makeup function be capable of maintaining the reactor coolant level above the top of the core. With regards to compliance with Appendix R at the FitzPatrick plant:
 - a. Will the stated use of ADS in combination with low pressure injection systems as a means of achieving and maintaining hot shutdown conditions in the event of fire in certain areas not requiring alternate shutdown from outside the Control Room satisfy the performance criteria of Section III.L? If not, provide justification for not requesting an exemption from 10 CFR Part 50, Appendix R.
 - b. If core uncover is expected, please provide the results of your analysis which demonstrate that excessive fuel clad temperature will not occur. Additionally, please provide the results of your analysis which demonstrates that the suppression pool temperature limits will not be exceeded and net positive suction head for RHR pumps will be maintained.
 - c. For the specific area, specify the stated reactor coolant makeup methodology is utilized. Specify whether procedures direct the operator to immediately implement the methodology (ADS/LPCI/CS) or whether this methodology is maintained available as a last resort. Specify the additional systems (safety related and nonsafety related) that could/would be available for reactor coolant makeup.

Mr. William A. Josiger

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May 18, 1994

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Sincerely,

ORIGINAL SIGNED BY:

John E. Menning, Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
Request for Additional
Information

cc w/enclosure:
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