

April 12, 2000

Mr. Michael B. Roche
Vice President and Director
GPU Nuclear, Inc.
Oyster Creek Nuclear Generating Station
P.O. Box 388
Forked River, NJ 08731

SUBJECT: OYSTER CREEK NUCLEAR GENERATING STATION - REQUEST FOR
ADDITIONAL INFORMATION RE: EXPANSION OF SPENT FUEL POOL
STORAGE CAPACITY (TAC NO. MA5965)

Dear Mr. Roche:

By letter dated June 18, 1999, you submitted a license amendment request to support expansion of the spent fuel pool storage capacity at the Oyster Creek Nuclear Generating Station. The NRC staff has determined that additional information is required to complete its review.

Please provide your responses to the enclosed request for additional information within 30 days of your receipt of this letter. These questions were discussed with members of your staff in a telephone conference on February 25, 2000.

Sincerely,

/RA/

Helen N. Pastis, Sr. Project Manager, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-219

Enclosure: Request for Additional Information

cc w/encl: See next page

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REQUEST FOR ADDITIONAL INFORMATION
EXPANSION OF SPENT FUEL POOL STORAGE CAPACITY
GPU NUCLEAR, INC. AND
JERSEY CENTRAL POWER & LIGHT COMPANY
OYSTER CREEK NUCLEAR GENERATING STATION
DOCKET NO. 50-219

In the June 18, 1999, license amendment request, the licensee postulated a vertical rack drop onto the bottom of the spent fuel pool (SFP) floor from a height of 40 feet. The analysis shows that the SFP liner would be pierced and the concrete would undergo localized cracking. The licensee states, however, that the design-basis leakage detection and drainage collection system that is located beneath the SFP liner would collect any loss of inventory from the SFP and recycle it to the condensate storage tank (CST) from which the licensee could provide makeup to the SFP. As stated in the Updated Final Safety Analysis Report (UFSAR), water makeup to the SFP from the CST (525,000 gallons) is provided at a rate of 250 gallons per minute (gpm) if a single condensate transfer pump is used and 420 gpm if both condensate transfer pumps are used. Additional makeup can be provided at a rate of 150 gpm from the demineralized water storage tank (DWST). Other sources of water are also available.

Section 9.1.2.1 of the Oyster Creek UFSAR states, in part, that the design of the SFP conforms to the guidance of NRC general design criterion (GDC) 61. The following information is needed to evaluate conformance with GDC 61 as it relates to the capability of the fuel storage system to prevent significant reduction in fuel storage coolant inventory under postulated accident conditions.

1. Describe the capability to isolate a loss of inventory from the SFP.
2. What is the estimated rate of inventory loss into the drainage system for the postulated rack drop discussed above?
3. What is the maximum rate of inventory loss that the makeup system can accommodate?
4. Is the makeup rate of 420 gpm from the CST and 150 gpm from the DWST sufficient to replace the inventory loss through the pierced SFP liner?

M. Roche
GPU Nuclear, Inc.

cc:

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