UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON D.C. 20555

Docket File

June 8, 1992

Docket No. 50-219

Mr. John J. Barton
Vice President and Director
GPU Nuclear Corporation
Oyster Creek Nuclear Generating Station
Post Office Box 388
Forked River, New Jersey 08731

SUBJECT: EVALUATION OF DIFFERENTIAL PRESSURE SENSORS AND SETPOINTS FOR RE02, RE18, AND RE23 AT OYSTER CREEK (SEP TOPIC VII-1.B - SECTION 4.2.8 OF THE IPSAR NUREG-0822 TAC NO. M69012)

Dear Mr. Barton:

On May 29, 1990, GPU Nuclear Corporation submitted to NRC a list of a number of instrument setpoints associated with pressure sensors. The staff submitted a Request for Additional Information on November 6, 1990. GPU Nuclear Corporation (GPUN) responded to this request on February 6, 1991. A second Request for Additional information was submitted on April 22, 1991, with the GPU Nuclear Corporation reply dated December 6, 1991.

The staff, after review of the original submittal and the two sets of additional information, has concluded that GPUN's setpoints and hardware modifications attempt to meet the applicable guidance outlined in Section 4.28 of NUREG-0822, "Integrated Plant Safety Assessment Systematic Evaluation Program, Oyster Creek Nuclear Generating Station," NRC January 6, 1983. However, GPUN has not conclusively demonstrated the acceptability of the chosen setpoints. For RE02 and RE18 instruments, GPUN has not addressed instrument saturation and foldover that are possible with the setpoint near the limit of the range. For RE18, GPUN used engineering judgement rather than analytical calculations to verify that the rate of level decrease will not cause the safety limit to be exceeded. In addition, GPUN has not addressed environmental uncertainties, such as vibration and seismic effect, in the setpoint selection process.

Because GPUN has not conclusively shown adherence with Regulatory Guide 1.105, ISA-S67.04-1982, or their own requirement ES-002 (which is stated to incorporate the ISA standard), the staff cannot conclude that the selected setpoints are or are not acceptable. Based on the inadequacy of the information received from GPUN we have terminated this review. It is recommended that GPUN review Regulatory Guide 1.105, SA-67.04-1982, and your ES-002, make the appropriate modifications to ES-002, and recalculate the setpoints for these instruments.

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Details regarding these conclusions are provided in the enclosure. Based on the above, we consider SEP Topic VII-1B-Section 4.28 of the IPSAR closed.

Sincerely,

/s/

Alexander W. Dromerick, Sr. Project Manager
Project Directorate I-4
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
Safety Evaluation

cc w/enclosure:
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