GPU Nuclear

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August 3, 1984

Mr. Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Crutchfield:

Subject: Oyster Creek Nuclear Generating Station
Docket No. 50-219
SEP Topic No. VII-1A Isolation of Reactor Protection System From Nonsafety Systems, Including Qualifications of Isolation Devices

Code of Federal Regulation (10CFR50.55a(h)) through IEEE Standard 279-1971 requires that safety signals be isolated from nonsafety signals and that no credible failure at the output of an isolation device shall prevent the associated protection system channel from meeting the minimum performance requirements specified in the design bases.

At Oyster Creek Nuclear Generating Station the analog signals from the nuclear flux monitoring system intermediate range monitors (IRMs) and average power range monitors (APRMs) are connected to the plant computer using resistor isolation buffer circuitry. There are no isolation devices between the IRMs and APRMs and their process recorders.

During the integrated evaluation of the subject SEP topic, the NRC staff requested GPUN to perform a failure mode and effects analysis (FMEA) to evaluate the need for isolation devices between the nuclear flux monitoring systems and their recorders.

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The results of our evaluation indicate that the failure of IRM/APRM process recorders, in any mode, will not compromise the integrity of the Reactor Protection System and therefore, would not create a safety concern. Therefore, the isolation devices between the IRM/APRMs and their process recorders are not required. Detailed FMEA is provided in the attached report.

Very truly yours,

Peter B. Fiedler
Vice President and Director
Oyster Creek

PBF/dam/0084e
Attachment

cc: Dr. Thomas E. Murley, Administrator
Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

NRC Resident Inspector
Oyster Creek Nuclear Generating Station
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