



GPU Nuclear Corporation
100 Interpace Parkway
Parsippany, New Jersey 07054
201 263-6500
TELEX 136-482
Writer's Direct Dial Number:

September 16, 1983

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. III-4A Tornado Missiles

Title 10 to Code of Federal Regulation, as implemented by Regulatory Guide 1.117, prescribes structures, systems, and components that should be designed to withstand the effects of a tornado, including tornado missiles, without loss of capability to perform safety functions.

During the integrated assessment of the subject SEP topic, the NRC staff identified several components (e.g., motor control centers, control rod drive hydraulic filter, isolation condenser piping and containment spray valve) in the vicinity of the mechanical equipment access opening of the reactor building that are potential targets for missiles penetrating the access doors.

GPUN agreed to evaluate the potential for and consequences of tornado-missile impact on components in this area and provide protection, if necessary. GPUN also agreed to evaluate the potential for and consequences of tornado-missile damage to the diesel generator building.

The attached report entitled "Oyster Creek Tornado Missile Risk Analysis" (PIG-0276) was prepared to determine the frequency and consequences of tornado-missiles causing damage to the diesel generator and fuel oil day tank compartments, the diesel fuel oil supply tank compartment, and the reactor building railroad airlock doors and walls based on a site specific model of the plant layout including targets and postulated sources of missile types.

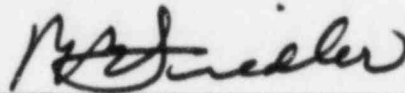
8309220211 830916
PDR ADOCK 05000219
PDR

A035

11

The evaluation concludes that tornado missiles having the potential to disable the above structures have a negligible contribution to the Oyster Creek core melt frequency using conservative assumptions and estimates. The detailed description of the methodology and assumptions used in the evaluation are given in the attached report.

Very truly yours,



Peter B. Fiedler
Vice President and Director
Oyster Creek

lr

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

NRC Resident Inspector
Oyster Creek Nuclear Generating Station
Forked River, NJ 08731