



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

October 23, 1984

Docket No.: 50-219  
LS05-84-10-028

Mr. P. B. Fiedler  
Vice President and Director  
Oyster Creek Nuclear Generating Station  
Post Office Box 388  
Forked River, New Jersey 08731

Dear Mr. Fiedler:

SUBJECT: INTEGRATED PLANT SAFETY ASSESSMENT (IPSAR) SECTION 4.27,  
ISOLATION OF REACTOR PROTECTION SYSTEM FROM NONSAFETY  
SYSTEMS, INCLUDING QUALIFICATIONS OF ISOLATION DEVICES -  
OYSTER CREEK

In the integrated assessment for your facility (NUREG-0822), you committed to perform a failure mode and effects analysis to evaluate the need for isolation devices between the intermediate range monitors (IRMs) and average power range monitors (APRMs) and their recorders. In addition, the staff established the position that you should address the adequacy of the resistor isolation buffer circuitry to assure that the reactor protection system (RPS) is protected from potential common-mode electrical faults that could be propagated from the plant computer. Your response was provided in a letter dated August 3, 1984.

The staff has reviewed your submittal and concluded that there is insufficient information to support your conclusion that the lack of qualified isolation devices would not compromise the integrity of the Reactor Protection System (RPS). Specifically, the following information or justification was not included in your submittal:

1. The evaluation did not address the resistor isolation buffer circuitry between the RPS and the process computer.
2. The evaluation concludes that the probability of maximum recorder input voltage being applied across the recorder input signal terminals (or R-18) is negligible. However, no justification is presented to support this conclusion.
3. The evaluation does not describe any periodic testing for stray voltages and system capability to withstand maximum credible voltages, as required by IEEE 279-1971 and IEEE 379-1977. In the absence of such testing, redundancy does not provide sufficient protection.

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Add: T. Michaels

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Mr. P. B. Fiedler

- 2 -

We discussed this matter with your staff on October 10 and 19, 1984. We understand that you will supplement the August 3, 1984 submittal to address the issues described above so that we may complete our review of this issue. This request affects fewer than ten respondents and, therefore, an SMB clearance is not required in accordance with Public Law 96-511. Should you have any questions concerning this request, please contact R. Scholl (301 492-7472).

Sincerely,

*Walter A. Paulson*  
Walter A. Paulson, Acting Chief  
Operating Reactors Branch #5  
Division of Licensing

cc: See next page

Mr. P. S. Fiedler

cc  
C.F. Trowbridge, Esquire  
Shaw, Pittman, Potts and Trowbridge  
1800 M Street, N.W.  
Washington, D.C. 20036

Resident Inspector  
c/o U.S. NRC  
Post Office Box 445  
Forked River, New Jersey 08731

J.B. Lieberman, Esquire  
Berlack, Isreals & Lieberman  
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New York, New York 10004

Commissioner  
New Jersey Department of Energy  
101 Commerce Street  
Newark, New Jersey 07102

Dr. Thomas E. Murley  
Regional Administrator  
Nuclear Regulatory Commission  
Region I Office  
631 Park Avenue  
King of Prussia, Pennsylvania 19406

Frank Cosolito, Acting Chief  
Bureau of Radiation Protection  
Department of Environmental  
Protection  
380 Scotch Road  
Trenton, New Jersey 08628

BWR Licensing Manager  
GPU Nuclear  
100 Interplace Parkway  
Parsippany, New Jersey 08625

Deputy Attorney General  
State of New Jersey  
Department of Law and Public Safety  
36 West State Street - CN 112  
Trenton, New Jersey 08625

Mayor  
Lacey Township  
818 Lacey Road  
Forked River, New Jersey 08731

U.S. Environmental Protection Agency  
Region II Office  
ATTN: Regional Radiation Representative  
26 Federal Plaza  
New York, New York 10007

Licensing Supervisor  
Oyster Creek Nuclear Generating Station  
Post Office Box 388  
Forked River, New Jersey 08731

Mr. P. B. Fiedler

- 2 -

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Sincerely,

Original signed by/

Walter A. Paulson, Acting Chief  
Operating Reactors Branch #5  
Division of Licensing

cc: See next page

\*PREVIOUS CONCURRENCES OBTAINED

SEPB:DL  
\*RScholl:dk  
8/29/84

SEPB:DL  
\*TMichaels  
8/29/84

SEPB:DL *CG*  
CGrimes  
10/22/84

ORB#5:PM *JL*  
JLombardo  
10/23/84

ORB#5:AC *WAP*  
WPaulson  
10/23/84

Mr. P. B Fiedler

- 2 -

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Sincerely,

Walter A. Paulson, Acting Chief  
Operating Reactors Branch #5  
Division of Licensing

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SEP:DL  
R:chojl:dk  
8/27/84  
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SEP:DL  
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8/29/84

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CGrimes  
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ORB#5:PM  
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ORB#5:AC  
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