

December 5, 1985

Docket No. 50-289

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Mr. Henry D. Hukill, Vice President
and Director - TMJ-1
GPU Nuclear Corporation
P. O. Box 480
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Dear Mr. Hukill:

SUBJECT: AUTOMATIC INITIATION OF EFW, NUREG-0737 ITEM II.E.1.2 PART 1

Enclosed is a request for additional information which we need to complete our review of NUREG-0737 Item II.E.1.2, Part 1 auto initiation of emergency feedwater (EFW). This request is in addition to the items discussed in our October 9, 1985 meeting on this subject.

You are requested to respond to these questions as soon as possible. The exact schedule is negotiable with your assigned project manager, Mr. John Thoma (301-492-8213). However, we desire the response no later than February 1986 and earlier if possible.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P. L. 96-511.

Sincerely,

"ORIGINAL SIGNED BY

JOHN F. STOLZ"

John F. Stolz, Director
PWR Project Directorate #6
Division of PWR Licensing-B

Enclosure:
As stated

cc w/enclosure:
See next page

PBD-6
JThoma;cr
12/5/85

PBD-6 *Raw*
RWeller
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AEZolich
PBD-6
JStolz
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Mr. Henry D. Hukill
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Three Mile Island Nuclear Station
Unit No. 1

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- 3 -

Three Mile Island, Unit 1

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Atomic Safety & Licensing Board Panel
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Atomic Safety & Licensing Appeal
Board Panel (8)
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Docketing and Service Section
Office of the Secretary
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

ENCLOSURE

INSTRUMENTATION AND CONTROL SYSTEMS BRANCH
REQUEST FOR ADDITIONAL INFORMATION
THREE MILE ISLAND UNIT 1

Currently the staff is conducting a detailed design review of the automatic initiation of the emergency feedwater system for conformance to NUREG-0737, Action Item II.E.1.2, Part 1. In an October 24, 1985, letter to the licensee, the staff requested that the licensee take specific action and/or provide information for several items. In order for the staff to complete its review, the following additional information should be provided:

1. Do all valves which are operable from the control room have position indication (mimics, etc.) provided in the control room? For those valves which do not, provide justification for not providing position indication in the control room and discuss how this issue relates to Paragraph 4.20 of IEEE-STD-279-1971.
2. Do bypass switches HS-1086 and 1087 and "43/SS1" (shown on Impell Drawing Nos. 0370-064-091 and 092) and test switches such as "69" shown on Gilbert Drawing No. SS-208-138) and "TS 29" (shown on Sheet 1 of Foxboro Drawing No. 84N35833 FD 0005) have bypass/inoperable status indication provided in the control room? For those switches which do not and are used more frequently than once per year, provide justification for not providing bypass/inoperable status indication in the control room. Discuss how this issue relates to Paragraph 4.13 of IEEE-STD-279-1971 with guidance from R.G. 1.47.

3. The switches discussed in Question 2 above may be used to block automatic initiation during testing. What assurance (test, indication, etc.) is provided that the specific contacts performing the block function return to their normal position? Discuss how the detectability (or non-detectability) of contact failure relates to this issue and to the single failure criterion in accordance with Paragraph 4.2 of IEEE-STD-279-1971 as amplified by IEEE-STD-379.
4. Channel trip and train actuation indicators are provided in the control room for Train A only. Discuss the design philosophy for not providing channel trip and train actuation indicators for Train B also. Discuss how this issue relates to Paragraphs 4.19 and 4.20 of IEEE-STD-279-1971.
5. Foxboro drawings do not show test switches for the steam generator level channel bistables. Discuss how the lack of these switches impacts testing of these bistables. Discuss how this issue relates to Paragraph 4.10 of IEEE-STD-279-1971.
6. Manual control is provided for some components (pumps and valves). Provide justification for not providing manual initiation capability at the system level and discuss how this issue relates to Paragraph 4.17 of IEEE-STD-279-1971.

7. NUREG-0737, Action Item II.E.1.2, Part 1 specifically required that each licensee provide a discussion of the design with respect to specific paragraphs of IEEE-STD-279-1971. Provide the required discussion covering your conformance to those specific paragraphs.