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November 14, 1984
5211-84-2257

Office of Nuclear Reactor Regulation
Attn: J. F. Stolz, Chief
Operating Reactor Branch No. 4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Stolz:

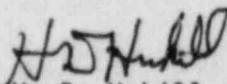
Three Mile Island Nuclear Station Unit 1 (TMI-1)
Operating License No. DPR-50
Docket No. 50-289
Control Room Habitability (III.D.3.4 NUREG 0737)

GPU Nuclear Corporation has made several submittals on this subject. The most recent letter of April 30, 1984 (H. D. Hukill to J. F. Stolz) reflects the results of design evolution and detailed analysis and represents current GPUN position on this issue. In order to assure that there is no confusion on this matter, it is the intent to consolidate and summarize the GPUN commitments on Control Room Habitability (III.D.3.4 NUREG 0737).

Enclosure 1 lists those commitments and reference to the appropriate letter.

This letter is provided for your information only; there is no action required.

Sincerely,


H. D. Hukill
Director, TMI-1

MI:dls
Enclosure

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A) GPUN Letter #LIL 323, H.D. Hukill to J. F. Stolz, dated Nov. 9, 1981

Commitment Status

- | | | |
|---|---|---|
| <p>Commitment #1
Attach 1
Sec. II.3.A
1st. Para.</p> | <p>The isolation dampers in the outside air intake, exhaust air outlets and the non-safety zone of the control building elevation 306'-0" will be Leakage Class I, Construction Class B dampers established in ASME/ANSI-N-509 and will meet the leak test requirements established in ASME/ANSI-N-510.</p> | <p>Commitment has been revised to reflect the results of recent analysis. For details see GPUN Letter #5211-84-2099 H. D. Hukill to J. F. Stolz dated April 30, 1984.</p> |
| <p>Commitment #2
Attach. 1
SRP 6.4, Rev. 1
See II.3.b
1st Para.</p> | <p>The CBVS emergency configuration will operate manually from the control room under all emergency operating conditions which includes postulated airborne radioactivity and postulated toxic chemical release. Isolation damper position will be automatic in accordance with signals from the TGDS, RDS, air intake tunnel device, or engineered safeguards Systems.</p> | <p>No change in position. Commitment has been revised to reflect results of recent analysis. Only chlorine gas detection is required. See letter of April 30, 1984 for clarification.</p> |
| <p>Commitment #3
Attach. 1
SRP 6.4
Sec. II.3.b
2nd Para.</p> | <p>The filtration subsystem includes four (4) redundant pneumatically operated isolation dampers in the outside air intake which are opened during postulated radiological releases.</p> | <p>Revised commitment based on most recent analysis and tests. See letter of April 30, 1984.</p> |
| <p>Commitment #4
Attach. 1
SRP 6.4
Sec. II.3.b
3rd Para.</p> | <p>Four (4) redundant pneumatically operated isolation dampers will be provided in the exhaust air outlet.</p> | <p>Commitment revised based on most recent analysis and tests. See letter of April 30, 1984.</p> |
| <p>Commitment #5
Attach. 1
SRP 6.4
II.5.b(1)</p> | <p>Quick-acting Toxic Gas Detectors.</p> | <p>Commitment revised based on information provided in GPUN Letters of July 16, 1982 and April 30, 1984.</p> |

- Commitment #6 Infiltration will be minimized by modification of the control building envelope to provide 0.06 air changes per hour when the C.B. is pressurized to + 1/8" WG.
- Attach. 2
SRP
Sec. II.5.b(3)
- Commitment revised
See letter of April 30, 1984.
- Commitment #7 The TGDS signal will automatically isolate the control building outside air intake, exhaust air outlet and the non-safety zone of the C.B. el. 306'-0" and will alarm and annunciate in the control room.
- Attach. 1
R.G. 1.78
Sec. C.3
- Commitment revised.
See letter of April 30, 1984.
- Commitment #8 Five (5) self contained breathing apparatus (SCBA) will be in place in the control room. Each SCBA has a minimum of two spare bottles stored at TMI-1. Also there is an air compressor and Cascade System onsite for unlimited air supply.
- Attach. 1
R.G. 1.78
Sec. C.14
3rd Para.
- No Change
- Commitment #9 The detector response time will be equal to or less than 10 seconds based on chlorine detection of 5 ppm at the isolation damper location.
- Attach. 1
RG 1.95, Rev 1
Sec. C.3.a(1)
3rd Para.
- No Change
See letter of April 30, 1984.
- Commitment #10 The CDS will consist of two (2) redundant units and physically separate to accomplish decoupling of the effects of unsafe environmental factors....
- Attach. 1
RG 1.95, Rev 1
Sec. C.4.d(3)
1st Para.
- No Change in position for revised detector location.
See Letter of April 30, 1984.
- B) Letter #5211-82-167, H. D. Hukill to J. F. Stolz dated July 16, 1982
- Commitment #11 Install low leakage isolation dampers for CB Emergency Zone.
- Attach. 3
Item 1
- Commitment revised based on most recent analysis.
See letter of April 30, 1984.
- Commitment #12 Perform leak tightness test on control building Emergency zone boundary and upgrade if necessary.
- Attach. 3
Item 2
- Test completed
See letter of April 30, 1984

C) Letter #5211-84-2056, H. D. Hukill to J. F. Stolz dated March 2, 1984

Commitment #13 3rd Para. ° Provide an estimate and schedule for the engineering, design and installation of isolation dampers, and Toxic Gas Detection System in the C.B.V.S.
° Issue engineering package for installation by July 1985.

Commitment revised
See letter of April 30, 1984

Following are the commitments for on-site Hazards, stated in the letter of April 30, 1984, reiterated here for your information.

D) Letter #5211-84-2099 H. D. Hukill to J. F. Stolz dated April 30, 1984

Commitment #14 Item A 1st & 2nd Para. ° Dike around NH₂OH tank--completion by January 1985 * *
° Institute an administrative procedure to govern the movement of the truck to assure that the truck will remain as far away from the air intake structure as practical.

Commitment #15 Item B 1st & 2nd Para. ° GPUN will install redundant chlorine detectors at the river water pump house and air intake structure--issuance of construction package by March 1985. * *
° GPUN will institute administrative procedures to control chlorine deliveries.

Commitment #16 Last page of the letter 2nd Para. Failure Mode and Effect Analysis (FMEA) will be performed. * *
GPUN will inform NRC of the results of FMEA by November 1984.

Commitment #17 Last page of the letter 3rd Para. GPUN plans to increase the leak tightness of the protected zone including the control room by adding seals and gaskets, * *
if UL rating is not affected.

* * GPUN's current position which supersedes previous commitments.