



GPU Nuclear Corporation
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 TELEX 84-2386
 Writer's Direct Dial Number:
 C311-88-2053
 May 16, 1988

U. S. Nuclear Regulatory Commission
 Attn: Document Control Desk
 Washington, DC 20555

Dear Sir:

Three Mile Island Nuclear Station, Unit 1 (TMI-1)
 Operating Licensing No. DPR-50
 Docket No. 50-289
 GPUN Response to Generic Letter (GL) 88-03

The purpose of this letter is to provide the confirmation requested in GL 88-03. The stated purpose of GL 88-03, dated February 17, 1988 is to resolve Generic Issue 93 "Steam Binding of Auxiliary Feedwater Pumps" by perpetuating the recommendations of IE Bulletin 85-01. In particular, it was stated that all addressees should:

1. Maintain procedures to monitor fluid conditions within the AFW system each shift during times when the system is required to be operable. This monitoring should ensure that fluid temperature at the AFW pump discharge is maintained at about ambient levels.
2. Maintain procedures for recognizing steam binding and for restoring the AFW system to operable status, should steam binding occur.

All addressees were requested to provide a letter of confirmation to the NRC indicating that the procedures discussed in GL 88-03 are in place and will be maintained.

GPUN's response to IE Bulletin 85-01, dated February, 27, 1986 (attached) describes TMI-1 procedures which accomplish the purposes requested in 1 and 2 above. As of this date, those measures as described in our letter are still in effect and no temperature increase above ambient has been noted. These procedures will be maintained; however it should be noted that they are subject to 10 CFR 50.59 changes if necessary.

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 For AD001C
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 1/1
 Previously
 Docketed
 w/out Encl*

May 16, 1988

Initial training was described in our earlier response. Training program materials are currently being upgraded to ensure adequate coverage of this condition and restoration from it. This response is being submitted in accordance with 10 CFR 50.54(f).

Sincerely,

J. J. Colitz for H. D. Hukill
H. D. Hukill
Vice President and Director, TMI-1

HDH/MRK

cc: J. Stolz
R. Hernan
R. Conte
W. Russell

Attachment

Sworn and subscribed to
before me this 16th
day of May, 1988.

Sharon L. Brewer

SHARON L. BREWER, Notary Public
Notary Public, Sampson County
My Commission Expires April 12, 1990
Director, Pennsylvania Association of Notaries



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February 27, 1986
5211-86-2034

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

Dear Dr. Murley:

Three Mile Island Nuclear Station, Unit 1 (TMI-1)
Operating License No. DPR-50
Docket No. 50-289
Response to IE Bulletin 85-01

This is in response to IE Bulletin 85-01 entitled "Steam Binding of Auxiliary Feedwater Pumps." The system at TMI-1 which corresponds to the system described in the bulletin is the Emergency Feedwater System (EFW). The TMI-1 EFW system is required for certain transients and accident mitigation. The EFW system is not required and not used for normal shutdown or cooldown as described in the bulletin for AFW (page 2, first paragraph). TMI-1's EFW system is not cross-connected with the Main Feedwater System. Therefore, steam binding caused by leakage from main feedwater is not possible.

TMI-1's EFW system uses a normally closed control valve (EF-V30A/B). In addition, the line between the two Once Through Steam Generators (OTSGs) and each of the three EFW pumps are provided with two check valves (EF-V11A/B, EF-V12A/B, and EF-V13) in series. Triple isolation valves make a steam binding failure highly unlikely. The measures listed below assure timely detection and corrective action if the event should occur.

The following is in response to the action items of the bulletin:

1. Develop procedures for monitoring fluid conditions within the EFW system on a regular basis during times when the system is required to be operable.

The Secondary Auxiliary Operator's Log Sheets require monitoring the temperature of the pipe upstream of each EFW pump discharge check valve on each shift. Temperature monitoring/recording has been in effect for the last several months with no increase above ambient temperature noted.

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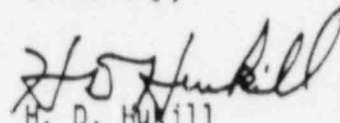
Training was initiated on July 5, 1985 by memo 3210-85-0274 "Training Handout - Detection of Vapor Binding in EFW Pumps." This handout describes the potential for steam binding of the pumps and the monitoring requirements. Shift supervisors, foremen, and crew briefing was completed on July 31, 1985.

2. Develop procedures for recognizing steam binding and restoring EFW, should steam binding occur.

Revision 42 to OP-1106-6 (EFW Operating Procedure) addresses restoration of EFW if steam binding were to occur. This revision, distributed on January 20, 1986, requires securing the affected pumps and draining cool condensate storage tank water through the pump to a pump discharge vent valve if pipe temperature indicates that steam binding would occur.

This completes GPUH's response to IE Bulletin 85-01. This letter is being submitted one day late as discussed with the NRC Senior Resident Inspector R. Conte on February 26, 1986.

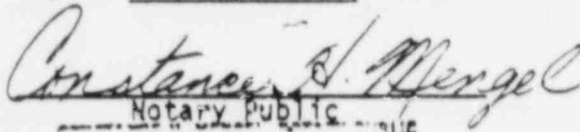
Sincerely,


H. D. Huxill
Director, TMI-1

HDH/MRK/spb:0504A

cc: R. Conte
J. Thoma
Document Control Desk (Original)

Sworn and subscribed to
before me this 27th
day of February, 1986.


Notary Public

REGULATORY BOARD, DAUPHIN COUNTY
BY COMMISSIONER EXPIRES MARCH 26, 1989
Member, Pennsylvania Association of Notaries