



Metropolitan Edison Company
Post Office Box 480
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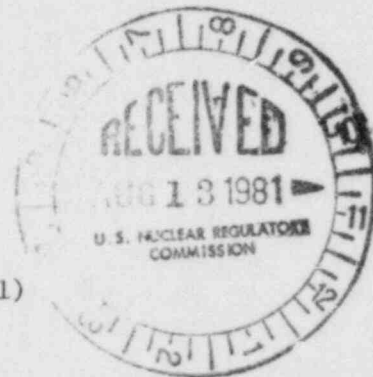
Writer's Direct Dial Number

August 10, 1981
LIL 216

Mr. Darrell G. Eisenhut, Director
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

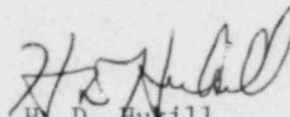
Dear Sir:

Three Mile Island Nuclear Station, Unit 1 (TMI-1)
Operating License No. DPR-50
Docket No. 50-289
Status Report Plant Shielding Restart Report
Section 2.1.2.3, Table 2.1-9



Enclosed, is an attachment which details the current status and some design details for the subject modifications listed in the restart report.

Sincerely,


H. D. Hukill
Director, TMI-1

HDH:CJS:vjf

Enclosure

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ATTACHMENT

The status of the modifications tabulated in Section 2.1.2.3 Table 2.1-9 are listed below. These modifications are listed in the same order that they appear in the table.

<u>MODIFICATION</u>	<u>CURRENT STATUS</u>
1. Change operating procedures to require manual opening of MU-V198 before going to recirculation from reactor building sump (i.e. before BWST is depleted)	Emergency procedures 1202-6B "Loss of Reactor Coolant/Reactor Coolant Pressure (Small Break LOCA) Causing Automatic High Pressure Injection" and 1202-6C "Loss of Reactor Coolant/Reactor Coolant Pressure Injection, Core Flood and Low Pressure Injection" will be revised per the commitment when Decay Heat remote valve operation capability is achieved.
2. Install a shield wall in Area IV, to isolate the MCC's from the piping	<p>A reinforced concrete shield wall has been designed and will be in place prior to Unit 1 Restart. The wall starts at column line 7d, encloses the stairwell in Area III of Figure 2.1-12, continues parallel to column line J and terminates about 9 feet from the containment wall. Shield wall height is 12'-4". Access aisles are maintained between the shield wall and the piping along column line J, MCC 1A & 1B and the containment outer wall. Wall sections in the North-South direction are 13 inches thick for direct radiation shine attenuation and are interconnected by a 9 inch thick East-West section.</p> <p>The shield wall reduces the radiation dose rate in Area III to permit operator access post accident to reset circuit breakers in MCC 1A and/or 1B.</p> <p>The reactor coolant pump seal water supply line and high pressure injection line B bridge the access aisle between the shield wall the containment outer wall. These lines are shielded by a 3 1/2" thick steel plate assembly at elevation 313'-0". The plan view of the shield plate assembly is shown in Figure 2.1-12a attached. The entire plate assembly is removeable for maintenance access to valve operators in other overhead piping.</p>

3. Change valves DH-V19A & B, DH-V38A & B to remote air operated with air provided from bottled gas supply good for 2 hrs. operation. Provide DC power for valve actuation and manual loaders for positioning DH-V19A & B. Revise procedure 1104-4 concerning post LOCA boron control so that valves DH-V15A & B remain locked open and valves DH-V5A & B and DH-V6A & B are closed.

Remote Operators for DH-V19A & B, DH-V38A & B

Pneumatic operators are to be retrofitted to Decay Heat Exchanger outlet isolation valves DH-V19A & B and Decay Heat crossover valves DH-V38A & B. The primary pneumatic supply is plant instrument quality air with dry air cylinder back-up source. The operators will open and close the valves, modulate DH-V19A & B for Decay Heat flow control and fail "as is" upon loss of all pneumatic pressure.

The back-up dry air source is a minimum of three size 1A storage cylinders located on the 281' elevation of the Auxiliary Building in Area X, reference figure 2.1-13 which is accessible post accident for cylinder replacement, if required for continued operation.

Revisions to Operating Procedure 1104-4, Decay Heat Removal System

Changes to the operating procedure will be accomplished when the remote operation capability of DH-V19A & B is achieved.

4. Change valves DH-V12A & B to electric motor operated. Operate DH-V64 via reach rod extension on Aux. Building 305' elevation. Extension stem is located so that operator is protected by above noted shield wall.

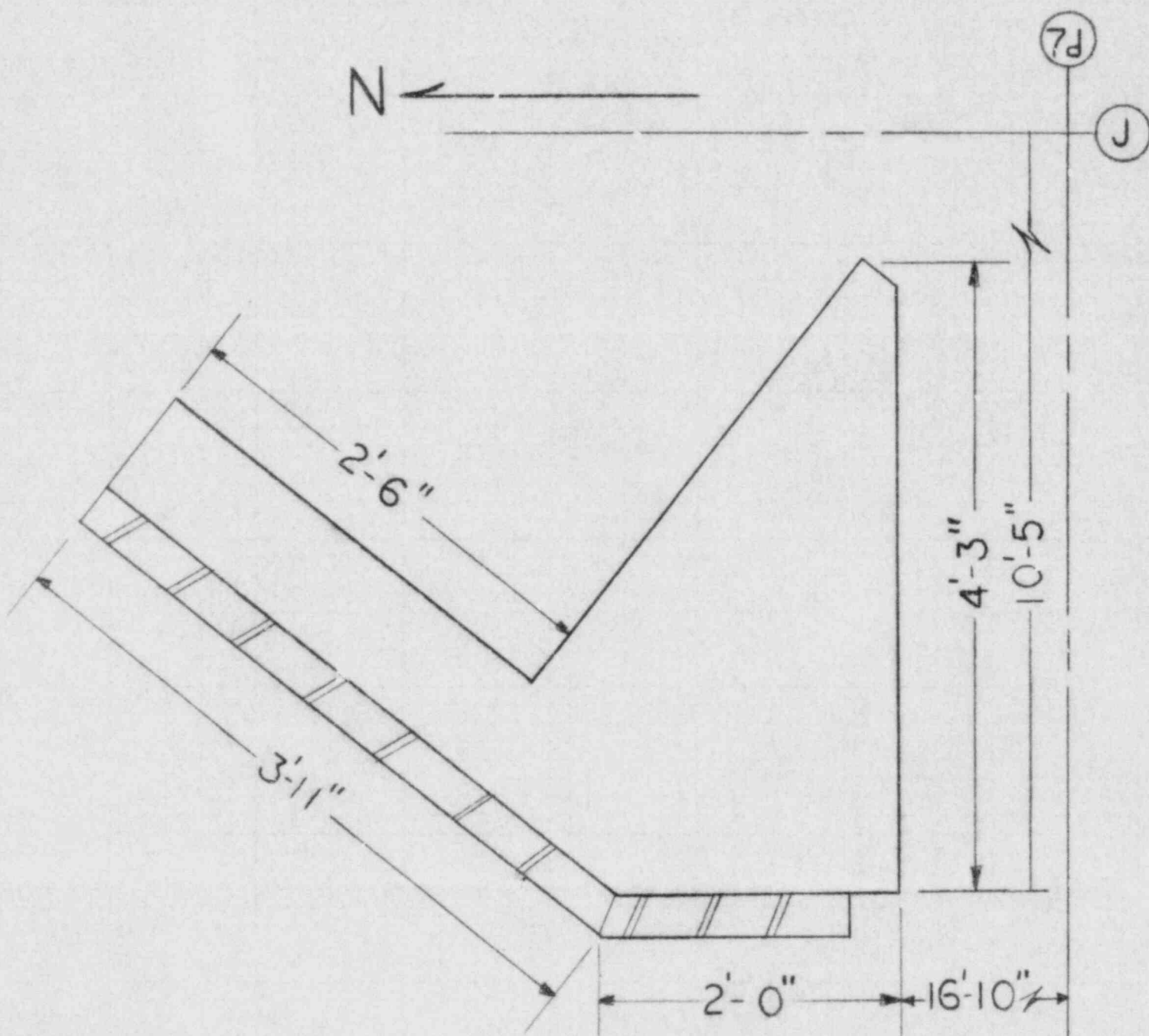
Remote Operators for DH-V12A/B

Electric motor operators are to be retrofitted to Decay Heat Suction split isolation valves DH-V12A/B. The 460V, 3 phase power shall be from a Class 1E source. The operators shall fail "as is" upon loss of all electrical power.

Remote Operation of DH-V64

A remote manual floor stand operator for DH-V64 is located in Area IV on elevation 305', reference figure 2.1-12.

The calculated radiation dose rate in Area IV permits operator travel and a 5 minute stay time for valve operation no earlier than 11 hours after a LOCA. The total accumulated dose rate for this operation is less than 3 rem.



PLAN VIEW
 REMOVEABLE STEEL SHIELD ASSEMBLY
 ELEVATION 313'-0" AREA III
 AUXILIARY BUILDING

Figure 2.1-12.