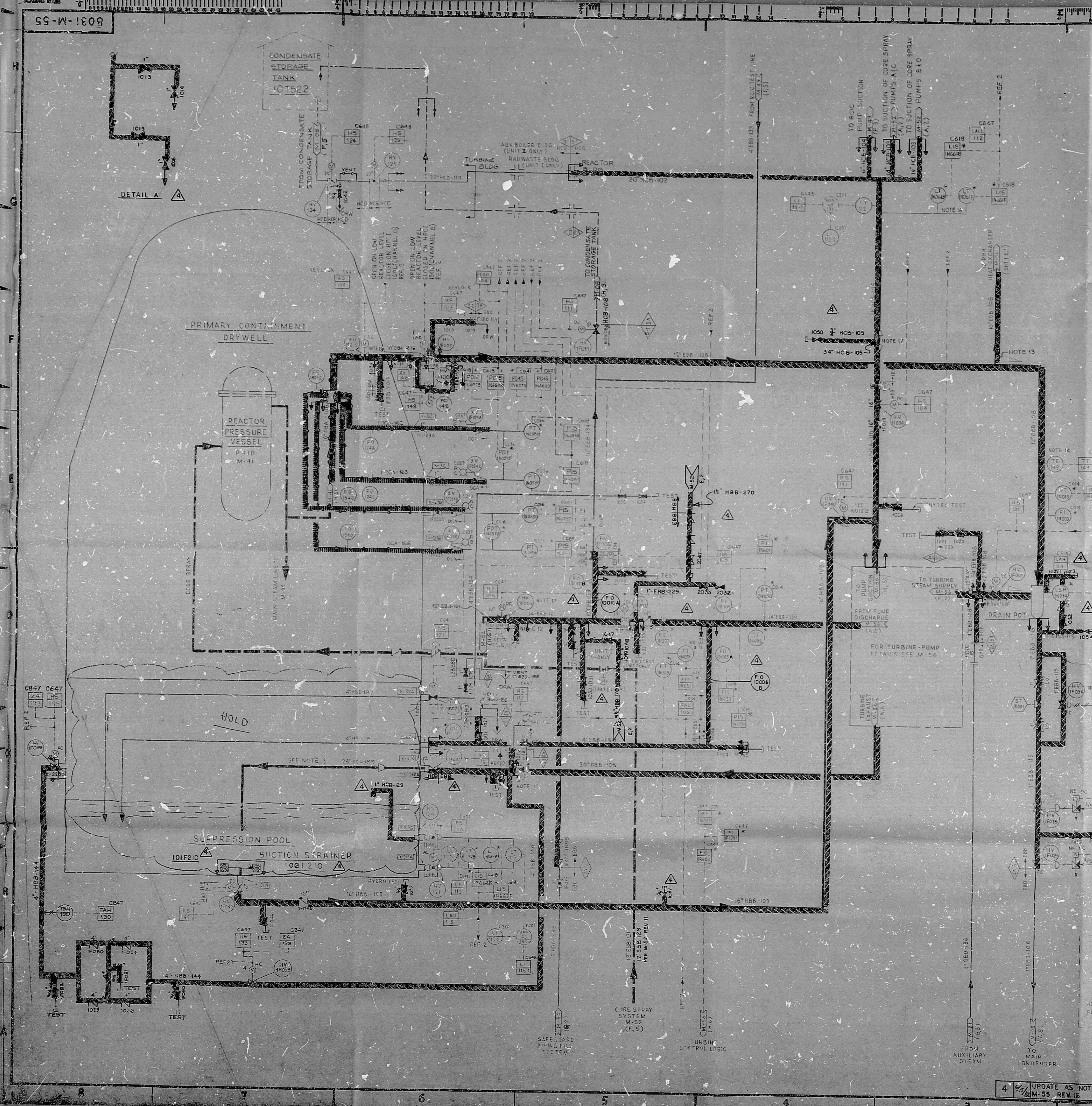

SIZE E

REF NO	REFERENCE DRAWINGS	BECHTEL NO	GE NO
1	NUCLEAR BOILER	M-41	
2	HPCI FUNCTIONAL CONTROL DIAGRAM	8031-M-E41-1030-F	729E627AD
3	HPCI PUMP TURBINE	M-56	
4	P & ID LEGEND	M-00	
5	CORE SPRAY	M-52	
6	RCIC	M-49	
7	AUXILIARY STEAM	M-21	
8	MAIN STEAM	M-01	
9	CONDENSATE	M-05	
10	CONDENSATE & REFUELING WATER STORAGE	M-08	
11	TURBINE CONTROLS DIAGRAM	8031-M1-E41-C002-K	JPF 2763-92-1
12	HPCI SYSTEM P & ID	8031-M1-E41-010-D	[illegible]
13	PLANT LEAK DETECTION	M-25	
14	PROCESS INST PIPING & TUBING DESIGN SPEC	8031-M1-A61-4070-L	22A3732
15	HPCI SYSTEM DESIGN SPEC	8031-M1-EV1-4010-L	22A3021
16	HPCI FUNCTIONAL DESCRIPTION	M-55FD	

REVISION 8 OF THIS P&ID REQUIRES REVISION OF THE FOLLOWING RELATED DOCUMENTS:

	YES	NO	NA
QAD	☒	☐	☐
FD TEXT	☐	☐	☒
LOGIC DIAGRAM	☒	☐	☐

NOTES:

1. THE HPCI IS CLASS I SEISMIC SYSTEM EXCEPT AS NOTED. CLASS I SEISMIC CLASSIFICATION SHALL EXTEND UP TO THE FIRST WALL PENETRATION BEYOND POINT INDICATED AND SHALL INCLUDE THE FIRST ANCHOR POINT IN OR BEYOND THIS WALL.
2. LOCATE VALVE 1F041 (ZONE E-4) AS CLOSE AS POSSIBLE TO PUMP SUCTION LINE FROM CONDENSATE STORAGE TANK.
3. PENETRATION LOCATION TO BE ABOVE MAXIMUM EXPECTED WATER LEVEL, WITH SPARGER LOCATED 4 FEET BELOW LOW WATER LEVEL (ZONE C-7).
4.
5. AC POWER FOR HPCI INSTRUMENTS SHALL BE DERIVED FROM THE PLANT DC POWER SYSTEM, VIA AN INVERTER. THE DC SOURCE IS TO BE SEPARATE FROM THAT WHICH SUPPLIES THE RCIC SYSTEM.
6. THE GE MPL NUMBER FOR THIS SYSTEM IS E-41.
7. FILL LINE SHOULD BE LOCATED AT HIGH POINT.
8. TEMPERATURE LEAK DETECTION FOR THIS SYSTEM IS SHOWN ON REF 13. THE TEMPERATURE INSTRUMENTS ARE INDEXED AS PART OF P & ID M-55.
9. ALL INSTRUMENT PIPING & TUBING SHALL BE INSTALLED IN ACCORDANCE WITH REFERENCE 14.
10. ALL STEAM LINES SHALL BE SLOPED. ALL LIQUID LINES INSIDE THE PRIMARY CONTAINMENT SHALL BE SLOPED WHERE PRACTICAL.
11. VALVE 1F021 SHOULD BE LOCATED AT A HIGH POINT (C 6)
12. THIS LINE TO BE CONTINUOSLY SLOPED 45° TO SURGE CHAMBER.
13. UNIT 2 PIPING HAS TWO CONNECTIONS.
14. TEMPERATURE ELEMENT TO BE MOUNTED ON OUTSIDE SURFACE.
15. REMOVE SPOOL PIECE AND REPLACE WITH BLIND FLANGES AFTER INITIAL TESTING.
16. LT 1N061 B,F SHOULD BE LOCATED ABOVE EL. 201'-0" ON 16" HCB-105.
17. 34" SECTION OF PIPING SHALL CONTAIN AT LEAST 1100 GALLONS.
18. INSTALL VALVE IN REVESE DIRECTION SUCH THAT FLOW IS OVER THE SEAT.
19. VALVE 1F006 TO BE LOCATED AS CLOSE AS POSSIBLE TO JUNCTURE WITH CORE SPRAY LINE.

POOR ORIGINAL

NUCLEAR ENERGY SERVICES
DRN BY [signature] 6/30/78
CKD BY [signature] 7/11/78
GROUP A
GROUP B
GROUP C

ALL PIPING DESIGNATED BY [symbol] IS ASME SECT. XI IWB, IWC EXEMPT

THIS ISI IS BASED ON P&ID 8031-M-55 REV. 16 (4)

USE THIS DOCUMENT FOR INSERVICE INSPECTION ONLY. BACKGROUND MAY NOT BE CORRECT.

PRC APERTURE CARD

NO.	DATE	REVISIONS	
2	3-18-80	CLARIFY EXEMPTION NOTATION	
3	10-21-80	UPDATED	SEE ABOVE
4	4/81	UPDATE AS NOTED PER M-55 REV. 16	188 CJZ

SCALE NONE — DESIGNED J.E. BRADBURN — DRAWN Z CHOW

BECHTEL
SAN FRANCISCO

LIMERICK GENERATING STATION UNITS 1 & 2
PHILADELPHIA ELECTRIC COMPANY

ISI HIGH PRESSURE COOLANT INJECTION

JOB No.	DRAWING No.	REV.
8031	ISI-M-55	4

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