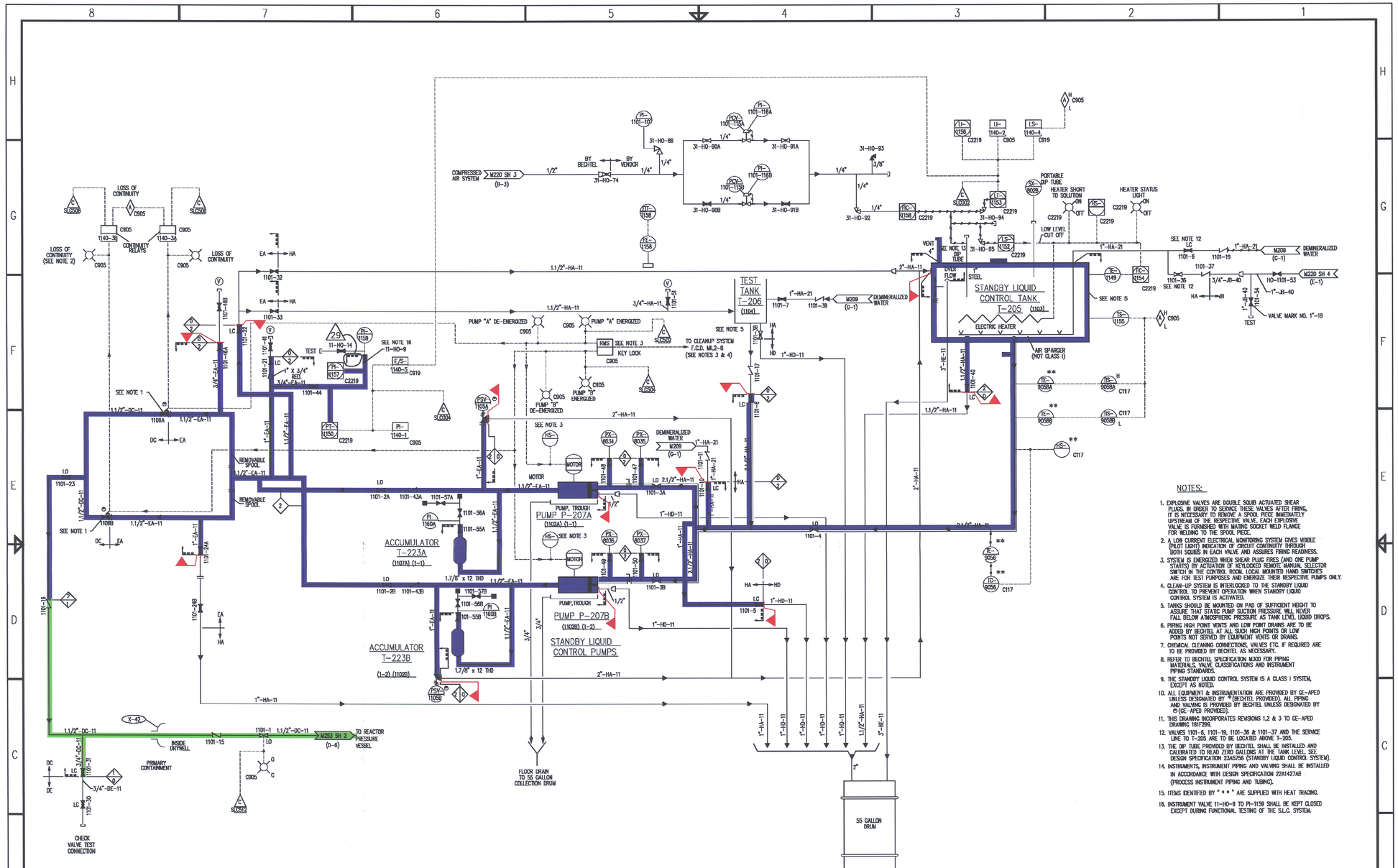

NOTES:

1. EXPLOSIVE VALVES ARE DOUBLE SQUIB ACTUATED SHEAR PLUGS. IN ORDER TO SERVICE THESE VALVES AFTER FIRING, IT IS NECESSARY TO REMOVE A SPOOL PIECE IMMEDIATELY UPSTREAM OF THE RESPECTIVE VALVE. EACH EXPLOSIVE VALVE IS FURNISHED WITH MATING SOCKET WELD FLANGE FOR WELDING TO THE SPOOL PIECE.
2. A LOW CURRENT ELECTRICAL MONITORING SYSTEM GIVES VISIBLE (PILOT LIGHT) INDICATION OF CIRCUIT CONTINUITY THROUGH BOTH SQUIBS IN EACH VALVE AND ASSURES FIRING READINESS.
3. SYSTEM IS ENERGIZED WHEN SHEAR PLUG FIRES (AND ONE PUMP STARTS) BY ACTUATION OF KEYLOCKED REMOTE MANUAL SELECTOR SWITCH IN THE CONTROL ROOM. LOCAL MOUNTED HAND SWITCHES ARE FOR TEST PURPOSES AND ENERGIZE THEIR RESPECTIVE PUMPS ONLY.
4. CLEAN-UP SYSTEM IS INTERLOCKED TO THE STANDBY LIQUID CONTROL TO PREVENT OPERATION WHEN STANDBY LIQUID CONTROL SYSTEM IS ACTIVATED.
5. TANKS SHOULD BE MOUNTED ON PAD OF SUFFICIENT HEIGHT TO ASSURE THAT STATIC PUMP SUCTION PRESSURE WILL NEVER FALL BELOW ATMOSPHERIC PRESSURE AS TANK LEVEL LIQUID DROPS.
6. PIPING HIGH POINT VENTS AND LOW POINT DRAINS ARE TO BE ADDED BY BECHTEL AT ALL SUCH HIGH POINTS OR LOW POINTS NOT SERVED BY EQUIPMENT VENTS OR DRAINS.
7. CHEMICAL CLEANING CONNECTIONS, VALVES ETC. IF REQUIRED ARE TO BE PROVIDED BY BECHTEL AS NECESSARY.
8. REFER TO BECHTEL SPECIFICATION M000 FOR PIPING MATERIALS, VALVE CLASSIFICATIONS AND INSTRUMENT PIPING STANDARDS.
9. THE STANDBY LIQUID CONTROL SYSTEM IS A CLASS I SYSTEM, EXCEPT AS NOTED.
10. ALL EQUIPMENT & INSTRUMENTATION ARE PROVIDED BY GE-APED UNLESS DESIGNATED BY * (BECHTEL PROVIDED). ALL PIPING AND VALVING IS PROVIDED BY BECHTEL UNLESS DESIGNATED BY ⊕ (GE-APED PROVIDED).
11. THIS DRAWING INCORPORATES REVISIONS 1,2 & 3 TO GE-APED DRAWING 181F299.
12. VALVES 1101-6, 1101-19, 1101-36 & 1101-37 AND THE SERVICE LINE TO T-205 ARE TO BE LOCATED ABOVE T-205.
13. THE DIP TUBE PROVIDED BY BECHTEL SHALL BE INSTALLED AND CALIBRATED TO READ ZERO GALLONS AT THE TANK LEVEL. SEE DESIGN SPECIFICATION 23A5756 (STANDBY LIQUID CONTROL SYSTEM).
14. INSTRUMENTS, INSTRUMENT PIPING AND VALVING SHALL BE INSTALLED IN ACCORDANCE WITH DESIGN SPECIFICATION 22A1427A8 (PROCESS INSTRUMENT PIPING AND TUBING).
15. ITEMS IDENTIFIED BY * * * ARE SUPPLIED WITH HEAT TRACING.
16. INSTRUMENT VALVE 11-HO-9 TO PI-1159 SHALL BE KEPT CLOSED EXCEPT DURING FUNCTIONAL TESTING OF THE S.L.C. SYSTEM.

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

STANDBY LIQUID CONTROL SYSTEM AMRM-01

REACTOR COOLANT SYSTEM PRESSURE BOUNDARY AMRM-33

TITLE OF REFERENCE DRAWINGS	DWG NUMBER
STANDBY LIQUID CONTROL SYSTEM, WIRING DIAGRAM RACK C2219	M1P331-3
INSTRUMENT INDEX	M260-1
STANDBY LIQUID CONTROL SYSTEM PROCESS DIAGRAM	M1F2-3
REACTOR WATER CLEAN-UP SYSTEM FCD	M1L2-8
STANDBY LIQUID CONTROL SYSTEM ELEMENTARY DIAGRAM	M1F4-9
COMPRESSED AIR SYSTEM	M220 SH 1, 2
CONDENSATE AND DEMINERALIZED WATER STORAGE AND TRANSFER SYSTEM	M209
STANDBY LIQUID CONTROL SYS FCD	M1F1-2
REACTOR WATER CLEAN-UP SYSTEM	M247
NUCLEAR BOILER VESSEL INSTRUMENTATION	M253 SH 1, 2
REACTOR BUILDING CONTAINMENT VESSEL REQUIREMENTS, DRYWELL PLANS & SECTIONS AND PENETRATIONS	C152

NO	DATE	REVISIONS	BY	ENG	CHK	APP
E26	8/02	REVISED FOR POC 83-34 PER DCN 136653	TEB	–	AEJ	RJB
E25	8/00	REVISED PER DCN GO-08923	OLT	–	NJW	DLJ
E24	4/00	REVISED FOR PR 00L0938 PER DCN 08096	TEB	–	AJB	DLJ
E23	9/99	REVISED PER DCN 97-00913	TEB	–	AEJ	DLJ
E22	8/99	ELECTRONIC CONVERSION PER DCN 97-00275	TEB	–	AJB	DLJ
E21	9/98	REVISED PER POC 83-34	TEB	AKB	JMC	ETA
E20	9/98	REVISED PER POC 83-34	LLP	AKB	JMC	RJB
E19	9/98	REVISED PER PR 94.0074	LLP	PHD	JMC	LPG
E18	9/98	REVISED PER PR 93.0609	LLP	JAT	JMC	LPG
28	9/95	INCORPORATED DCN 05-06288	LCC	–	DLJ	NA
28	8/93	REVISED PER DCN 03-15687	TEB	–	AEJ	RJB
27	1/93	REVISED FOR GE-PNP-2002-06652 PER DCN 14489	TEB	–	CTS	RJB

41100-1951 FSAR FIGURE 3.8-1 (REV 16)

AMM\MECH\M249.DWG

SCALE NONE

DESIGNED GE/BECHTEL

DRAWN B MALHOIT

Entergy Nuclear Generation Company
PILGRIM STATION
PLYMOUTH, MA

TITLE
P & ID
STANDBY LIQUID CONTROL SYS

Q ☒ Non Q

DRAWING NO. M249

REV 29

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	10-12-05	.	.	.	.	.

REVISIONS

LRA-M-249-0

CAD FILE LRA-M-249_E29.DGN

MASTER FILE M249-CALS_E29.CAL

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