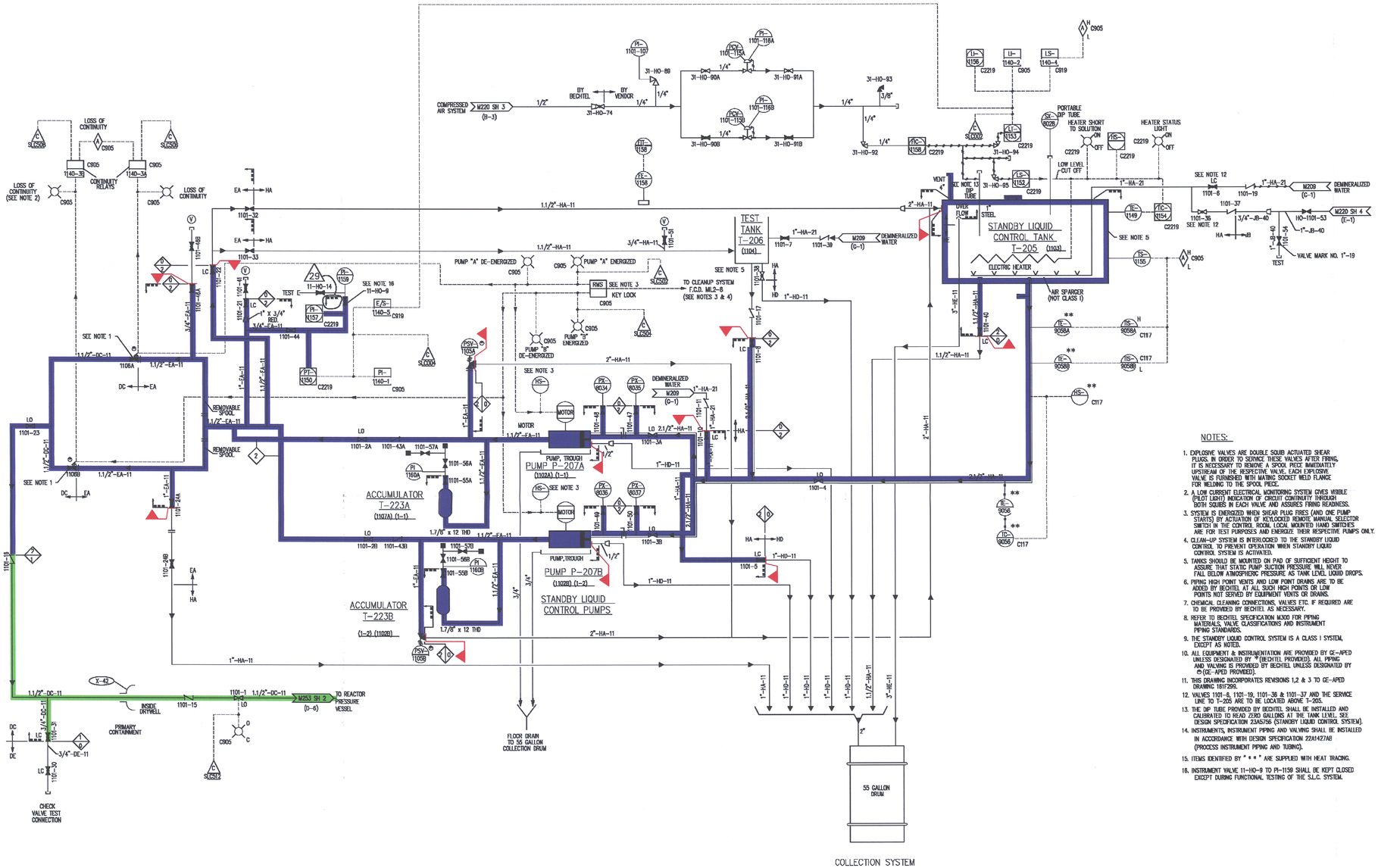

NOTES:

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 M300 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 1101-8, 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 22A1427AB (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

		REACTOR WATER CLEAN-UP SYSTEM FCD	M112-8	E28	11/02	REVISED FOR POC 83-34 PER DCN 13653	TEB	–	AEJ	RJB	SCALE: NONE	DESIGNED: GE/BECHTEL	DRAWN: B MALHOIT
		STANDBY LIQUID CONTROL SYSTEM ELEMENTARY DIAGRAM	M1F4-9	E25	10/00	REVISED PER DCN 00-08923	OLT	–	NJW	DLJ			
				E24	11/00	REVISED FOR PR 00.0939 PER DCN 08096	TEB	–	AJB	DLJ			
		COMPRESSED AIR SYSTEM	M220 SH 1, 2	E23	04/99	REVISED PER DCN 97-00913	TEB	–	AEJ	DLJ			
		CONDENSATE AND DEMINERALIZED WATER STORAGE AND TRANSFER SYSTEM	M209	E22	04/99	ELECTRONIC CONVERSION PER DCN 97-00275	TEB	–	AJB	DLJ			
				E21	01/98	REVISED PER POC 83-34	TEB	AKB	AJB	ETA			
		STANDBY LIQUID CONTROL SYS FCD	M1F1-2	E20	10/96	REVISED PER POC 83-34	JLP	AKB	AJB	RJB			
STANDBY LIQUID CONTROL SYSTEM, WIRING DIAGRAM RACK C2219	M1P331-3	REACTOR WATER CLEAN-UP SYSTEM	M247	E19	04/94	REVISED PER PR 94.0074	JLP	PHD	AJB	LPG			
		NUCLEAR BOILER VESSEL INSTRUMENTATION	M253 SH 1, 2	E18	04/93	REVISED PER PR 93.0609	JLP	JAT	AJB	LPG			
INSTRUMENT INDEX	M260-1	REACTOR BUILDING CONTAINMENT VESSEL REQUIREMENTS, DRYWELL PLANS & SECTIONS AND PENETRATIONS	C152	28	11/95	INCORPORATED DCN 05-06288	LCC	–	DLJ	NA			
STANDBY LIQUID CONTROL SYSTEM PROCESS DIAGRAM	M1F2-3			E28	02/03	REVISED PER DCN 03-15687	TEB	–	AEJ	RJB			
				E27	11/03	REVISED FOR CR-PNP-2002-08052 PER DCN 14489	BY	ENG	CHK	APP			
TITLE OF REFERENCE DRAWINGS	DWG NUMBER	TITLE OF REFERENCE DRAWINGS	DWG NUMBER	NO	DATE	REVISIONS							

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
RASTER FILE: M249-CALS_E29.CAL

41100-1951 FSAR FIGURE 3.8-1 (REV 16) AMM\MECH\M249.DWG

B.1-42