



- NOTES:
1. 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 VENT AND DRAINS.
 2. CHEMICAL CLEANING CONNECTIONS, VALVES ETC. IF REQUIRED, ARE TO BE PROVIDED BY BECHTEL AS NECESSARY.
 3. REFER TO BECHTEL PIPING SPECIFICATION 6488-M-300 AND M600 FOR PIPING MATERIALS, VALVE CLASSIFICATIONS AND INSTRUMENT PIPING STANDARDS.
 4. THE CORE SPRAY SYSTEM IS A CLASS 1 SYSTEM EXCEPT AS NOTED.
 5. ALL EQUIPMENT AND INSTRUMENTATION ARE PROVIDED BY GE-APED UNLESS DESIGNATED BY (PROVIDED BY BECHTEL). ALL PIPING AND VALVING IS PROVIDED BY BECHTEL UNLESS DESIGNATED BY (PROVIDED BY GE-APED). (THIS NOTE SUPERSEDES NOTE 11 ON DRAWING M200 SH 2, THIS DRAWING ONLY).
 6. THIS DRAWING INCORPORATES REVISIONS 1, 2, 3, 4, 5 & 6 OF GE-APED DRAWING 9200204 (M242).
 7. COOLING WATER FOR THE CORE SPRAY MOTOR THRUST BEARING IS SHOWN ON P & ID M215 SH 1 TO 4.
 8. REFER TO APED INSTRUMENT INSTALLATION STANDARDS REFERENCE DRAWING 102-21, INSTRUMENT PIPING REQUIREMENTS AND INSTRUMENT VALVE REQUIREMENTS BEYOND ROOT VALVES WHERE NO APED INSTRUMENT RACK DRAWINGS ARE PROVIDED. FOR LOCALLY MOUNTED INSTRUMENTS AS IS TO DETERMINE METHOD OF MOUNTING.
 9. FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS SEE MPL ITEM NO. 990.
 10. FOR EQUIPMENT IN THE CORE SPRAY SYSTEM SEE 238X520 SECTION 1400 (APED DRAWING).
 11. THE CORE SPRAY SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH REACTOR PROTECTION SYSTEM CRITERIA IEEE 279 IN SO FAR AS PRACTICABLE.
 12. DELETED
 13. LOCAL CONTROL SWITCH 'HS' LOCATED ON ALTERNATE SHUTDOWN PANEL SHALL BE IN REMOTE TO OPERATE THESE VALVES FROM CONTROL ROOM.
 14. OPERATION OF LOCAL SWITCH IN ALTERNATE SHUT DOWN PANEL WILL INTERRUPT POSITION INDICATION IN CONTROL PANEL.
 15. VALVE 14-HD-5 MAY BE OPEN FOR HYDROGEN-IN-CORE MONITOR TEST ONLY.
 16. START-UP STRAINER REMOVED, HOUSING REMAINS.
 17. REFER TO FUNCTIONAL CONTROL DIAGRAMS, CORE SPRAY (SEE REFERENCE DRAWINGS).
 18. REFER TO FUNCTIONAL CONTROL DIAGRAMS, NUCLEAR BOILER MISCELLANEOUS SYSTEM (SEE REFERENCE DRAWINGS).
 19. VESSEL SIDE OF VALVES MD-1400-25A AND MD-1400-25B WEDGES ARE DRILLED. SEE VALVE ASSEMBLY DRAWING FOR DETAILS.
 20. PLUG HAS BEEN SEAL WELDED.
 21. VALVES 1400-83A AND 1400-84A ARE LOCKED OPEN TO ADDRESS GENERIC LETTER 98-08.
 22. PERMANENT VIBRATION SENSORS ARE INSTALLED AT VARIOUS LOCATIONS TO ALLOW FOR PERIODIC MONITORING. LOCATIONS ARE SPECIFIED IN PWPS 3.M.1-15.
 23. THE HANDWHEEL FOR 14-HD-218B HAS BEEN ABANDONED IN PLACE. OPERATION OF THIS VALVE (IF REQUIRED) MUST BE ACCOMPLISHED USING A WRENCH.
 24. SUCTION STRAINERS BS-8002A & B ARE SHARED BY THE CORE SPRAY AND RESIDUAL HEAT REMOVAL SYSTEM. THEY APPEAR ON PIPING STATION DRAWINGS M241 SHEET 1, M242, ISM241 SHEET 1, AND ISM242.
 25. TUBING IS INSTALLED FOR REMOTE SAMPLING OF THE MOTOR UPPER OIL RESERVOIRS OF PUMP P-215A/2 (REFERENCE ER 0310107). THE SAMPLE VALVES AND SAMPLE LINE VENT VALVES ARE AS FOLLOWS:

PUMP	PUMP SAMPLE VALVE	SAMPLE LINE VENT VALVE
P-215A	14-HD-222A	14-HD-223A
P-215B	14-HD-222B	14-HD-223B



- COMPONENTS SUBJECT TO AMR
- CORE SPRAY SYSTEM
 - AMRM-03
 - REACTOR COOLANT SYSTEM
 - PRESSURE BOUNDARY
 - AMRM-33

RESIDUAL HEAT REMOVAL SYSTEM	M241 SHL	E47 6/8/03 REVISED FOR PDC 03-031 PER DCM 14727	TEB	AEJ/DLJ	SCALE	NONE	REVISION	GE/BECHTEL	DRAWN C T SMETTE	E
NUCLEAR BOILER MISCELLANEOUS SYSTEM	M242-4	E48 5/8/03 REVISED FOR PARTIAL PDC 03-031 PER DCM 14817	CTS	TEB/MJB						
FUNCTIONAL CONTROL DIAGRAM, CORE SPRAY SYSTEM (RHS) (FCD)	M241-8	E45 8/9/03 REVISED FOR PR SR5537.00 PER DCM 06791	CTS	AEJ/DLJ						
NUCLEAR BOILER MISCELLANEOUS SYSTEM	M241B-1	E44 8/8/03 REVISED PER DCM 99-06153	AJB	AEJ/DLJ						
NUCLEAR BOILER MISCELLANEOUS SYSTEM	M243	E43 4/9/03 REVISED FOR PRM 97-01-03 PER DCM 01968	TEB	AEJ/DLJ						
NUCLEAR BOILER	M252	E42 4/9/03 REVISED FOR PDC 98-07 PER DCM 08878	DIC	AEJ/DLJ						
COOLING WATER SYSTEM, REACTOR BUILDING	M215 SH 1 TO 4	E41 4/9/03 REVISED FOR PDC 98-32 PER DCM 00532	TEB	AEJ/DLJ						
CONDENSATE AND DEMINERALIZED WATER STORAGE AND TRANSFER SYSTEM	M209	E40 12/05 REVISED FOR ER 0310107 PER DCM 18022	LDG	DLJ/DLJ						
		E49 12/05 PARTIALLY REVISED FOR ER 0310107 PER DCM 17888	LAC	DLJ/DLJ						
		E48 10/03 REVISED PER DCM 03-15580	TEB	AEJ/MJB						
			BT	END	CHK	APP				

41100-1944

FSAR FIGURE 7.4-8 (REV 16)

AMM/MECH/M242.DWG

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
REVISIONS						
LRA-M-242-0						
E50						
M-242_E50.DGN						
M-242_E50.CAL						