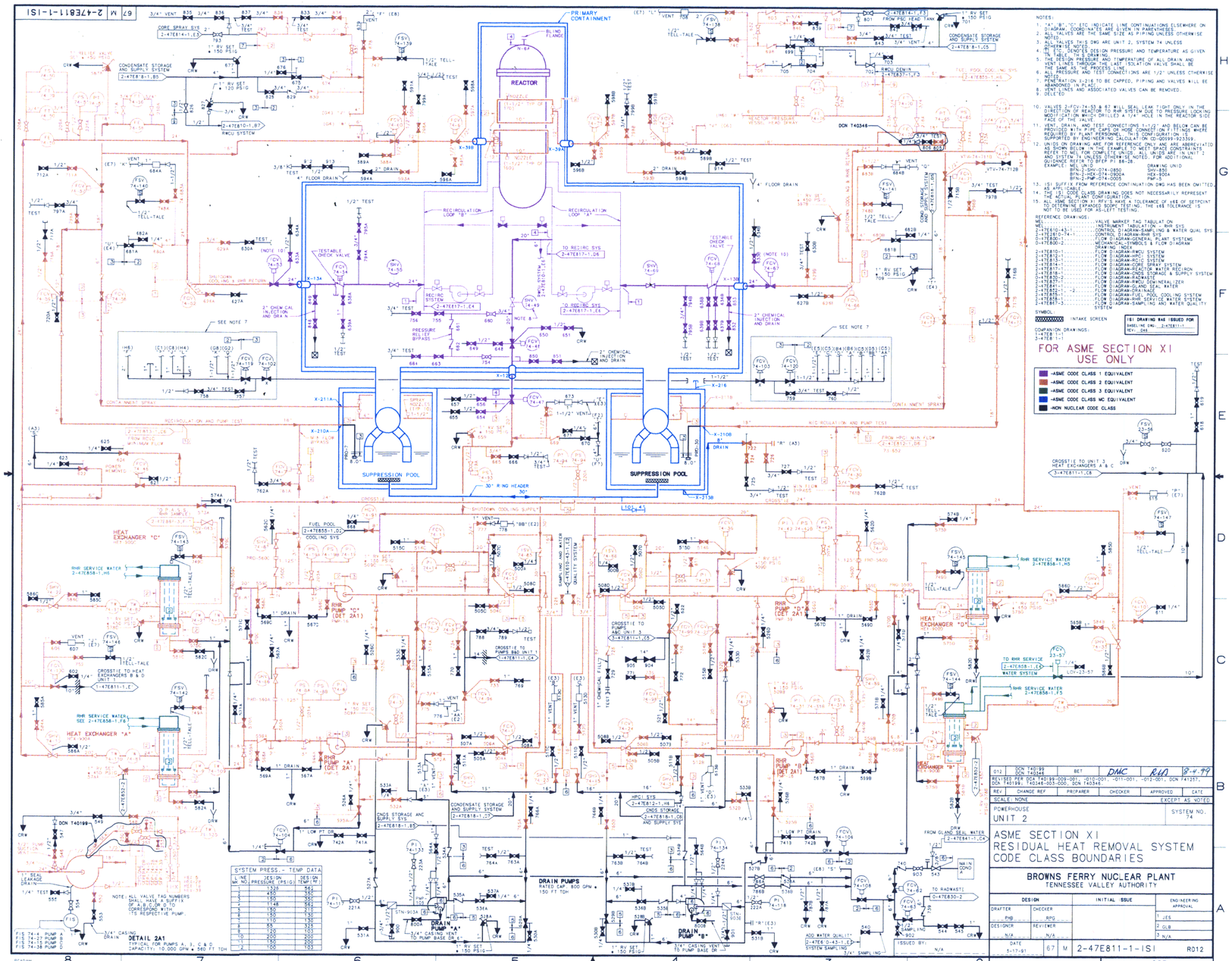
REACTOR
PRIMARY CONTAINMENT
SUPPRESSION POOL
SUPPRESSION POOL
RECIRCULATION LOOP "B"
RECIRCULATION LOOP "A"
HEAT EXCHANGER "C"
HEAT EXCHANGER "A"
HEAT EXCHANGER "D"
HEAT EXCHANGER "B"
RHR PUMP "C" (DET 2A1)
RHR PUMP "A" (DET 2A1)
RHR PUMP "D" (DET 2A1)
RHR PUMP "B" (DET 2A1)
DRAIN PUMPS
RATED CAP. 800 GPM @ 150 FT TDH
DETAIL 2A1
TYPICAL FOR PUMPS A, B, C & D
CAPACITY - 10,000 GPM @ 560 FT TDH
SYSTEM PRESS. - TEMP DATA
NOTES:
1. "A", "B", "C" & "E" INDICATE LINE CONTINUATIONS ELSEWHERE ON DIAGRAM. BYPASS MATE'S ARE GIVEN IN PARENTHESES
2. ALL VALVES ARE THE SAME SIZE AS PIPING UNLESS OTHERWISE NOTED
3. ALL VALVES THIS DWG ARE UNIT 2, SYSTEM 74 UNLESS OTHERWISE NOTED
4. "A" THRU "E" DENOTES DESIGN PRESSURE AND TEMPERATURE AS GIVEN IN TABLE ON THIS DRAWING
5. THE DESIGN PRESSURE AND TEMPERATURE OF ALL DRAIN AND VENT LINES THROUGH THE LAST ISOLATION VALVE SHALL BE THE SAME AS THE PROCESS LINE.
6. ALL PRESSURE AND TEST CONNECTIONS ARE 1/2" UNLESS OTHERWISE NOTED.
7. PENETRATION X-216 TO BE CAPPED, PIPING AND VALVES WILL BE ABANDONED IN PLACE.
8. VENT LINES AND ASSOCIATED VALVES CAN BE REMOVED.
9. DELETED
10. VALVES 2-FCV-74-53 & 67 WILL SEAL LEAK TIGHT ONLY IN THE DIRECTION OF REACTOR TO RHR SYSTEM DUE TO PRESSURE LOCKING MODIFICATION WHICH DRILLED A 1/4" HOLE IN THE REACTOR SIDE FACE OF THE VALVE.
11. VENT, DRAIN, AND TEST CONNECTIONS 1-1/2" AND BELOW CAN BE PROVIDED WITH PIPE CAP OR HOSE CONNECTION EXCEPT AS NOTED WHERE SUPPORTED BY ENGINEERING CALCULATION CD-QDR99-923359
12. UNIDS ON DRAWING ARE FOR REFERENCE ONLY AND ARE ABBREVIATED AS SHOWN BELOW IN THE EXAMPLE TO MEET SPACE CONSTRAINTS. REFER TO MEL FOR COMPLETE UNIDS. ALL UNIDS ARE IN UNIT 2 AND SYSTEM 74 UNLESS OTHERWISE NOTED. FOR ADDITIONAL GUIDANCE REFER TO BFEP PI 88-28.
EXAMPLE: DRAWING UNID
BFN-2-SHV-074-0850 SHV-850
BFN-2-HEX-074-0900A HEX-900A
BFN-2-PMP-074-0005 PMP-5
13. 1SI SUFFIX FROM REFERENCE CONTINUATION DWG HAS BEEN OMITTED AS APPLICABLE.
14. THE ASME CODE BOUNDARY DRAWING DOES NOT NECESSARILY REPRESENT THE ACTUAL CONFIGURATION.
15. ALL ASME SECTION XI RFI'S HAVE A TOLERANCE OF ±5% OF SETPOINT TO DETERMINE EXPANDED SCOPE TEST NO. THE ±5% TOLERANCE IS NOT TO BE USED FOR AS-LEFT TESTING.
REFERENCE DRAWINGS:
MEL ..... VALVE MARKER TAG TABULATION
MEL-47E610-43-1 ..... INSTRUMENT TABULATION - RHR SYS
2-47E610-74-1 ..... CONTROL DIAGRAM-RHR SYS & WATER QUAL SYS
2-47E610-74-1 ..... CONTROL DIAGRAM-RHR SYS
2-47E600-1 ..... FLOW DIAGRAM-GENERAL PLANT SYSTEMS
2-47E800-2 ..... MECHANICAL SYMBOLS & FLOW DIAGRAM DRAWING INDEX
2-47E610-1 ..... FLOW DIAGRAM-RWCU SYSTEM
2-47E811-1 ..... FLOW DIAGRAM-HPCI SYSTEM
2-47E813-1 ..... FLOW DIAGRAM-RCIC SYSTEM
2-47E814-1 ..... FLOW DIAGRAM-CORE SPRAY SYSTEM
2-47E817-1 ..... FLOW DIAGRAM-REACTOR WATER RECIRCN
2-47E818-1 ..... FLOW DIAGRAM-CNDS STORAGE & SUPPLY SYSTEM
2-47E819-1 ..... FLOW DIAGRAM-CNDS SYSTEM
2-47E837-1 ..... FLOW DIAGRAM-RWCU DEMINERALIZER
2-47E840-1 ..... FLOW DIAGRAM-GLAND SEAL WATER
2-47E852-1, -2 ..... FLOW DIAGRAM-DRAINAGE
2-47E855-1 ..... FLOW DIAGRAM-FUEL POOL COOLING SYSTEM
2-47E858-1 ..... FLOW DIAGRAM-RHR SERVICE WATER SYSTEM
2-47E867-1 ..... FLOW DIAGRAM-SAMPLING AND WATER QUALITY SYSTEM
SYMBOL
INTAKE SCREEN
COMPANION DRAWINGS:
2-47E8 1-1
2-47E8 1-1
FOR ASME SECTION XI USE ONLY
-ASME CODE CLASS 1 EQUIVALENT
-ASME CODE CLASS 2 EQUIVALENT
-ASME CODE CLASS 3 EQUIVALENT
-ASME CODE CLASS MC EQUIVALENT
-NON NUCLEAR CODE CLASS
012 DCN T40199 DCN T40348 BET DMC RHD 8-6-99
REVISED PER DCA T40199-009-001, -010-001, -011-001, -012-001, DCN F41257, DCA T40199, T40348-003-000, DCN T40348
REV CHANGE REF PREPARER CHECKER APPROVED DATE
SCALE: NONE EXCEPT AS NOTED
POWERHOUSE UNIT 2 SYSTEM NO. 74
ASME SECTION XI RESIDUAL HEAT REMOVAL SYSTEM CODE CLASS BOUNDARIES
BROWNS FERRY NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DESIGN INITIAL ISSUE ENGINEERING APPROVAL
DRAFTER PHB CHECKER RPG 1 JES
DESIGNER N/A REVIEWER N/A 2 GLB 3 N/A
DATE 5-17-91 67 M 2-47E811-1-ISI R012
CCD

D-18