



- NOTES:
1. PRESSURE POINT VENTS AND LOW POINT DRAINS ARE TO BE ADDED AS NECESSARY.
 2. INSTRUMENT LINE DESIGN AND VALVES SHALL BE IN ACCORDANCE WITH INSTRUMENT PIPING SPECIFICATION AW-3030.
 3. THE METHOD OF MOUNTING LOCAL INSTRUMENTS IS TO BE DETERMINED BY PIPING DESIGNER.
 4. VENT DRAIN AND RELIEF VALVE DISCHARGE SYSTEM TO LOW AND HIGH OR SUPPRESSION POOL ARE BY PIPING DESIGNER.
 5. FOR ADDITIONAL CONTROL ROOM INDICATOR LIGHTS, SYSTEMS ALARMS AND REMOTE MANUAL SWITCHES, SEE THE HPCF LOGIC DIAGRAM.
 6. PROVISIONS FOR CONTAMINANT ISOLATION SHALL BE IN ACCORDANCE WITH THE CURRENT LICENSING REQUIREMENTS.
 7. EQUIPMENT AND INSTRUMENTS ARE PROVIDED BY SYSTEM NUMBER E22 UNLESS OTHERWISE NOTED.
 8. THIS SIGNAL IS USED FOR LOOP B ONLY.
 9. DRYWELL PIPING RUNS SHALL BE HORIZONTAL OR VERTICAL UPWARDS FROM THE DRYWELL WALL TO THE POINT OF ATTACHMENT WITH THE REACTOR VESSEL.
 10. INTERFACES WITH OTHER SYSTEMS ARE EXTENDED CORRESPONDING LOOPS IN THIS SYSTEM EQUIPMENT TO BE ADDED BY THE DESIGNER.
 11. DESIGN LINE SIZE WILL BE FINALIZED AT THE DETAILED DESIGN PHASE. ACTUAL LINE SIZES DETERMINED BY THE PIPING DESIGNER SHALL MEET THE PROCESS DATA HYDRAULIC REQUIREMENTS.
 12. VALVES F005A-C ARE RECOMMENDED FOR MAINTENANCE AND/OR LEAK RATE TESTING.
 13. PUMP COOLING COOLING WATER, IF REQUIRED, IS FROM SYSTEM P21.
 14. CHECK VALVES F005A-C SHALL BE LOCATED AS CLOSE AS PRACTICAL TO THE REACTOR VESSEL NOZZLE.
 15. VALVES F005A-C AND F005B-C SHALL BE LOCATED AS CLOSE AS PRACTICAL TO THE CONTAMINANT PENETRATION OF THE RETURN LINE TO THE SUPPRESSION POOL.
 16. ALL MOTOR OPERATED VALVES ARE AG OPERATED UNLESS OTHERWISE NOTED.
 17. COMMON LINE FOR HPCF-B, HPCF-C, HPCF-D, AND SPCU.
 18. FLUSHING CONNECTIONS AND TELEPHONY STRAIGHT SCREENS SHALL BE PROVIDED ON THE SILENT SIDE OF ALL PIPING EXCEPT B-C.
 19. FOR LOOP C, REPLACE SUFFIX F WITH G, SUFFICES D AND E ARE OMITTED.
 20. PIPING DESIGN SYMBOLS AND LOCATIONS ARE AS FOLLOWS:
 - A. MAXIMUM OPERATING PRESSURE - SEE SPECIFIC BOUNDARY SYMBOL
 - B. MAXIMUM OPERATING TEMPERATURE - SEE SPECIFIC BOUNDARY SYMBOL
 - C. MATERIAL - CARBON STEEL EXCEPT AS SPECIFIED
 - D. PIPING THICKNESS SHALL BE PER ASME-B31.1-1960, PRESSURE RATING OF 150 LB/IN² COMPONENTS
 - E. DESIGN CLASS - SEE SPECIFIC BOUNDARY SYMBOL
 - F. QA CLASS - SEE SPECIFIC BOUNDARY SYMBOL
 - G. DESIGN CLASS - As
 - H. FLUID - WATER
 21. VALVE F005B-C SHALL BE AT LOWEST POINT IN THE SYSTEM TO ALLOW FOR DRAINAGE.
 22. CRAN AND VENT PIPING DESIGN CONDITIONS ARE:
 - MAXIMUM OPERATING PRESSURE - SAME AS MAIN LINE
 - MAXIMUM OPERATING TEMPERATURE - SAME AS MAIN LINE
 - MATERIAL - CARBON STEEL EXCEPT AS SPECIFIED
 - DESIGN CLASS - As
 - QA CLASS - As
 - FLUID - WATER
 23. PIPE NUMBERS FOR LOOP C SHALL BE THE SAME AS FOR LOOP B PLUS 100 STARTING AT 005 EXCEPT: LOOP B - 005 = LOOP C - 105; LOOP B - 701 = LOOP C - 801.
 24. VALVES F005A-C SHALL BE LOCATED BELOW THE SUPPRESSION POOL MINIMUM WATER LEVEL.
 25. HPCF SPARGER WITHIN THE RPV IS INCLUDED IN HPCF BOUNDARY.

- SUPPLEMENTAL DOCUMENTS UNDER THE FOLLOWING IDENTITIES ARE TO BE USED IN CONJUNCTION WITH THIS DRAWING.
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| 1. REACTOR BUILDING COOLING WATER SYSTEM P&ID | MPL NO. P21-1010 |
| 2. NUCLEAR BOILER SYSTEM ISD | B21-1030 |
| 3. REMOTE SHUTDOWN SYSTEM ISD | C61-1010 |
| 4. MAKE-UP WATER SYSTEM (CONDENSATE) P&ID | F13-1010 |
| 5. HIGH PRESSURE NITROGEN SUPPLY SYSTEM P&ID | P54-1010 |
| 6. VALVE GLAND LEAKAGE TREATMENT, RADWASTE SYS P&ID | K17-1010 |
| 7. REACTOR PRESSURE VESSEL SYSTEM | B11-4010 |
| 8. HIGH CONDUCTIVITY WASTE SYSTEM P&ID | K13-1010 |
| 9. STANDBY LIQUID CONTROL SYSTEM P&ID | C41-1010 |
| 10. RESIDUAL HEAT REMOVAL SYSTEM P&ID | E11-1010 |
| 11. HIGH PRESSURE CORE FLOODER SYSTEM P&ID | E22-1020 |
| 12. HIGH PRESSURE CORE FLOODER ISD | E22-1030 |
| 13. SUPPRESSION POOL TEMPERATURE MONITORING SYSTEM ISD | T33-1030 |
| 14. REACTOR CORE ISOLATION COOLING SYSTEM P&ID | E51-1010 |
| 15. SUPPRESSION POOL CLEAN-UP SYSTEM P&ID | C51-1010 |
| 16. LOW CONDUCTIVITY WASTE, RADWASTE SYSTEM P&ID | K17-1010 |
- SUPPORTING DOCUMENT
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| 1. PIPING AND INSTRUMENT DIAGRAM SYMBOLS | MPL NO. AW-3030 |
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FIG. 6.3-7

MPL NO. E22-1010

SI APERTURE CARD

DESIGNER'S NAME		DATE		SCALE	
SAFETY RELATED		CLASSIFICATION		FREE CLASS TB	
YES		CLASS		CLASS TB	
NO		CLASS		CLASS TB	
GENERAL ELECTRIC HIGH PRESSURE CORE FLOODER SYSTEM THE CORP. P&ID 1076008 10-3-91 1076008 1076008					

PDR RIDS

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