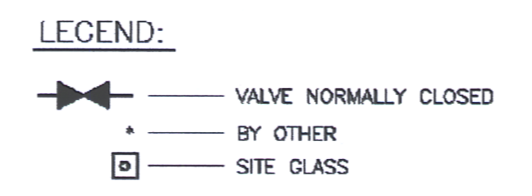


- NOTES: (CONTINUED)**
16. THE PIPING (4" SW-567) AND SUPPORTS (SW-567-H1 & SW-567-H2) ON REMA SUPPLY PIPING WHERE THE VACUUM BREAKERS TIE IN ARE SC 2 FOR STRUCTURAL INTEGRITY. (SEE EDCR 95-409)
  17. THE SUPPORTS FOR 2" SW-586D ARE NNS PER EDCR 95-409
  18. PIPING AND VALVES ON THE FIRE WATER SIDE OF LINES SW 4A & 4B (FROM SW-8 TO LINES 1F-1 AND 1F-2) AND THE FIRE WATER SIDE OF 1 1/2" SW-570 (FROM V10-28 TO THE FIRE WATER CROSS-TIE LINE) AND TEST LOOP 10-17-1B HAVE A DESIGN PRESSURE OF 175 PSIG.
  19. SPECTACLE FLANGE/BLIND FOR SERVICE WATER DISCHARGE HEADER FROM RECCW HX-2 (SPF-70-1). A SECONDARY CONTAINMENT PENETRATION WORK REQUEST (QP2116) IS NEEDED TO ROTATE THIS SPECTACLE.
  20. REPLACE RD-70-4/5 WITH SCS 510704 IF PIPING SPOOLS 6" SW-12A/B ARE CLEANED AND COATED, OR REPLACED WITH STAINLESS STEEL.
  21. PRESSURE TAPS AVAILABLE FOR FLOW SETTING.

- NOTES:**
1. INSTRUMENT AND CONTROL VALVE NUMBERS TO BE PREFIXED BY 104. ACTUAL TAGGING TO BE 104-104-21. ALL LOCAL GRAU SAMPLERS WILL GO 10 NLAHLS 1 HOUR URAN.
  2. UNLESS OTHERWISE NOTED ALL VALVES AND SPECIALTIES ARE PREFIXED BY SYSTEM NO. TO. EXAMPLE VALVE 152 ACTUAL DESIGNATION IS V10 152.
  3. SOLENOID VALVE WILL OPEN LOW LEVEL AND AUTOMATIC REFILL ONLY WHEN DIESEL IS RUNNING.
  4. CHECK RRI/S, TRU/S FOR VENTS, DRAINS AND PRESSURE CONNECTIONS.
  5. FOR CLEANOUT CONNECTIONS SEE PLANS AND SECTIONS.
  6. SPOOL PIECES ARE IN THE FOLLOWING LOCATIONS PER PAR 90-49: 1 IN 10" SW-9, 3 IN 15" SW-21, 2 IN SW-31A AND 8 IN HX COOLER INLET AND OUTLET PIPING - SEE G-191192 AND ISO'S 5820-FSI-6A, 7 FOR DETAILS.
  7. SACRIFICIAL ANODES AND TEST MATERIALS HAVE BEEN INSTALLED IN CLEANOUT PORTS. SEE PAR 90-48 AND G-191192, 5820-FSI-6A, 6D, 7 FOR DETAILS.
  8. PER EDCR 93-21, EDC-5, THE OUTLET LINES TO RRU-5, 6, 7, 8, 9, 17A & B AND UPS ARE DESIGNED FOR 32F TO 140F LAMP AND 125 PSIG PRESSURE. THE INLET LINES TO RRU-5, 6, 7, 8, 9, 17A & B AND UPS ARE DESIGNED FOR 32F TO 95F AND 125 PSIG.
  9. FOR USE OF SCREWED FLANGE, BUSHING AND PLUG SEE EDCR 92-401, FIGURE 1 AND J.O. FILE 95-022.
  10. PIPE CAPS ASSOCIATED WITH RRI/S VALVES 214A/B, 217A/B, 218A/B, 219A/B, 220A/B, 220A/B & 231A/B ARE NOT REQUIRED BY THE SAFETY CLASS MANUAL, BUT ARE USED AS GOOD PRACTICE. THEIR PRESENCE HAS NO EFFECT ON THE CAPABILITY OF THE SYSTEM TO PERFORM ITS SAFETY FUNCTION.
  11. STAINLESS STEEL MATERIAL IS SA312, TP316L OR APPROVED EQUAL.
  12. THE DESIGN PRESSURE TRANSITION ON LINE SW-7A/7B IS AT THE DISCHARGE OF VALVE V10-192A/D.
  13. V INDICATES BOUNDARIES OF VITAL (V) AND NON-VITAL (N) WALKER SUPPRESSION SYSTEM. ALTHOUGH THE ENTIRE SYSTEM IS NNS, VITAL PORTIONS ARE TREATED AS OGA.
  14. THE ANTI-VIBRATION STRUT W/SHIMS SHALL BE RE-INSTALLED IN THE SAME LOCATION IF IT IS REMOVED FOR MAINTENANCE.
  15. VALVE SW 200 CAN BE USED AS A 50 GPM WATER SOURCE TO FACILITATE CONDENSER TUBE CLEANING DURING COLD SHUTDOWN CONDITIONS (VYS 26/96 & FSR CHANGE NO.96-016). INSTALLATION TO BE CONTROLLED BY APOD21.



PIPING LINE LIST						
LINC NO.	LINC SIZE	PIPE	SCH.	MAT'L	PRFSS PSIG	TRMP/F
SW-1A-D	14", 18", 20", 24"	STD.	CS-1		125	32" 85"
SW-2A-I	14", 18", 20"					32" 85"
SW-3	20"					32" 85"
SW-4A & B	12"				125/175	32" 85"
SW-5	8", 6"				125	32" 85"
SW 5A E	3", 4"					32" 85"
SW-6A-D	10", 12"		CS-2		350	32" 85"
SW-7A & B	6", 12"				125	350
SW-8	24"		CS-1		125	32" 85"
SW-9	20"					32" 85"
SW-6A-D	10"					150
SW-10	8", 18"					32" 85"
SW-11A & B	10"					150
SW-12	8", 18", 20"					
SW-12A & B	6"					
SW-12C & D	4", 6"	RD				MM 98-017
SW-13	20"	STD.				1.6
SW-14	14"					
SW-15A & B	12"					32" 85"
SW-16A-C	8", 10", 12"		SS-1			150
SW 17	24"		CS 1			32" 85"
SW-18A-D	6"		CS-1		125	32" 85"
SW-19	3"		CS-2		350	32" 150"
SW 20A C	8"		CS-1		125	150"
SW-21	8", 16"		CS-1			150
SW-22	10", 4"					
SW 22A D	6"		SS 1			
SW-23	12"		CS-1			
SW-23A-D	6"		SS-1			
SW-24A & B	6", 8", 10", 12", 20", 24"		CS-1			
SW-25	8"					
SW-26A & B	6"					
SW-27	4"		CS-1			
SW-28A & B	6"		SS-1			
SW-29A & B	6"		CS-1			
SW-30A & B	8"					
SW-31A & B	8"					
SW-32	6"					
SW-33	8"					
SW-34	8"					
SW-35A & B	2 1/2"	TYPE K	COPPER			32" 85"
SW-36A & B	1 1/2"					32" 138"
SW 37A & B	3"	STD.	CS 1			150
SW-38	4"					
SW-39A & B	1 1/2"					
SW	2" & SM	80				
SW-41A & B	4"	40	SS			150 PAR 81-19
SW-45A & B	2"	TYPE K	COPPER			32" 85"
SW-45C	2"					32" 138"
SW-493	1 1/2"					32" 85"
SW-494	1 1/2"					32" 138"
SW-505	2"					32" 138"
SW-506	2"					32" 85"
SW-516	2"					32" 138"
SW-517	2"					32" 85"
SW-552 TO 561	2 1/2" & SW					150 PAR 81-19
SW-564	1"	80	CCS-3			32" 138" PAR 81-01
SW-565	1"	80	CCS-3			32" 138" PAR 81-01
SW-566A,B,C,D	2"	80	SS-1		125	32" 85" 1.6
SW-567	4"	STD.	CS-1		125	32" 85" 1.6
SW-570	1 1/2"	80	CS-1		125	150" 1.8
SW-40	4"	40	SS-1		125	32" 85" 2000-024



COMPONENTS SUBJECT TO AMR

- RESIDUAL HEAT REMOVAL SYSTEM AMRM-02
- STANDBY GAS TREATMENT SYSTEM AMRM-07
- SERVICE WATER SYSTEM AMRM-11
- REACTOR BUILDING CLOSED COOLING WATER SYSTEM AMRM-12
- EMERGENCY DIESEL GENERATOR SYSTEM AMRM-13
- HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS AMRM-19

- REFERENCE DWG'S:**
- G-191155 PIPING & INSTRUMENT SYMBOLS
  - G-191183 FLOW DIAG. FIRE PROTECTION SYS.
  - G-191185 FLOW DIAG. SAMPLING SYS.-S1.2
  - G-191186 FLOW DIAG. CIRC. WATER & MISC. SYS.
  - G 191192 TURBINE BUILDING SERVICE & COOLING WATER PIPING PLANS
  - G-191194 REACTOR BUILDING SERVICE & COOLING WATER PIPING PLANS
  - G-191196 FIRE WATER PIPING PLAN
  - G-191230 YARD PIPING PLAN SH.1
  - 5920-4143 EMERGENCY DIESEL GENERATOR AFTER COOLANT SYSTEM SCHEMATIC
  - 5920-4147 EMERGENCY DIESEL GENERATOR JACKET COOLANT SYSTEM SCHEMATIC
  - 5920-4150 EMERGENCY DIESEL GENERATOR LUBE OIL SYSTEM SCHEMATIC

THIS IS AN FSAR DRAWING

DETAIL "A"

ENERGY NUCLEAR VERMONT YANKEE  
VERNON, VERMONT

DRAWING TITLE: FLOW DIAGRAM SERVICE WATER SYSTEM

DRAWING NO.: G 191159 SH.2

NO.	DATE	DESCRIPTION	BY	CHK	APP
REVISIONS					
LRA-G-191159-SH-02-0					
LRA-G-191159-SH-02-85.DGN					
G-191159-SH-02-CALS_85.CAL					