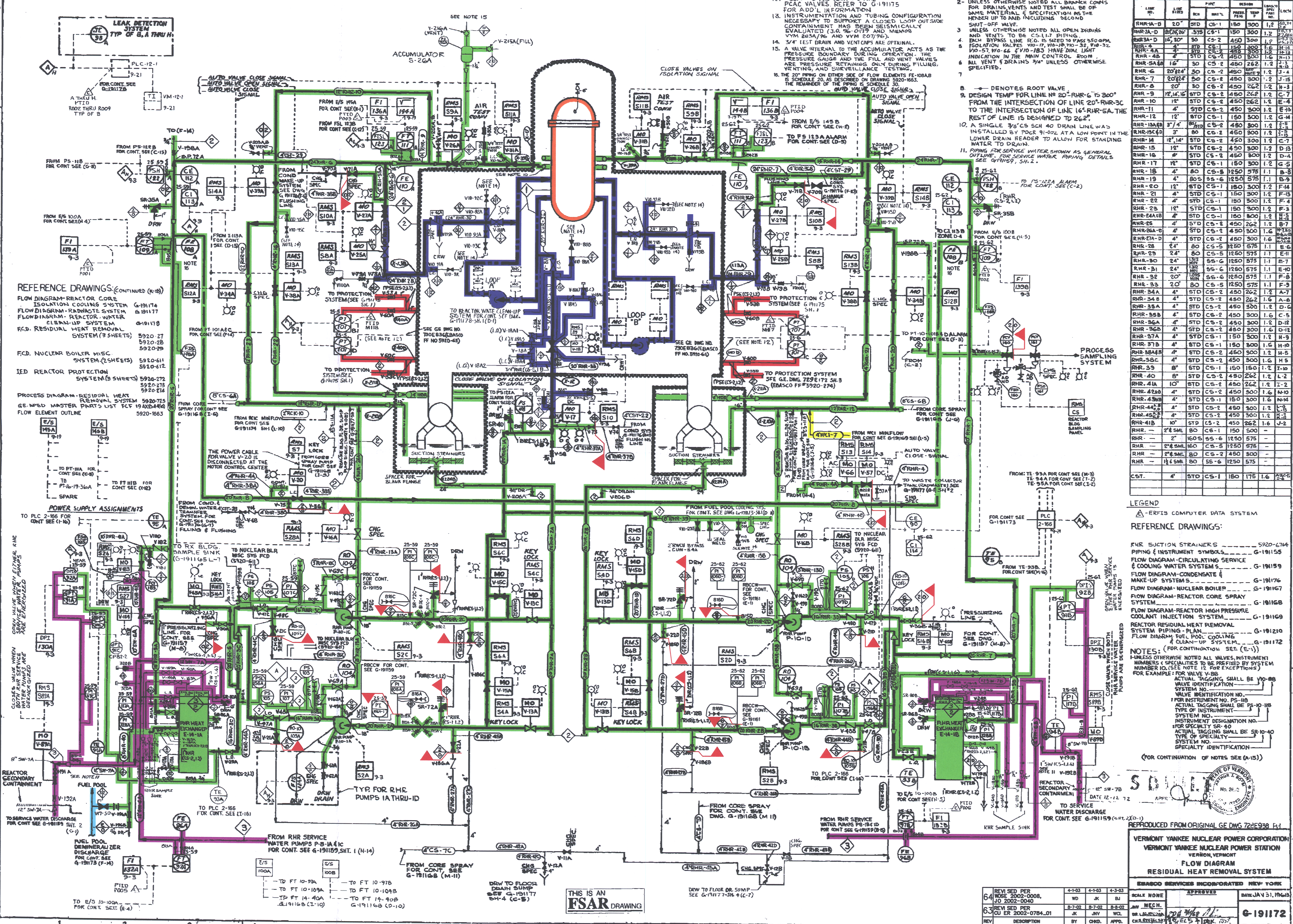


6-191172



- NOTES CONTINUED:
- 12. V-53A - D AND V-60A - D ARE P/CAC VALVES REFER TO G-191175 FOR ADD'L INFORMATION.
 - 13. INSTRUMENTATION AND TUBING CONFIGURATION NECESSARY TO SUPPORT A CLOSED LOOP OUTSIDE CONTAINMENT HAS BEEN SPECIFICALLY EVALUATED (J.O. 96-0179 AND MEMOS VY-2624/96 AND VY-2077/96).
 - 14. 3/4" TEST DRAIN AND VENT CAPS ARE OPTIONAL.
 - 15. A VALVE INTERNAL TO THE ACCUMULATOR ACTS AS THE PRESSURE BOUNDARY DURING OPERATION. THE PRESSURE GAUGE AND THE FILL AND VENT VALVES ARE PRESURE RETAINING ONLY DURING FILLING, VENTING, AND SURVEILLANCE TESTING.
 - 16. THE 20" PIPING ON EITHER SIDE OF FLOW ELEMENTS IS SCHEDULE 80. THE REMAINDER OF THE PIPING IS SCHEDULE 30. **SHUT-OFF VALVE CLOSE SIGNAL**
- NOTES (CONTINUED SEE (M))
- 2. UNLESS OTHERWISE NOTED ALL BRANCH COMPS FOR DRAINS, VENTS AND TEST SHALL BE OF SAME MATERIAL & SPECIFICATION AS THE HENSHER UP TO AND INCLUDING SECOND SHUT-OFF VALVE.
 - 3. UNLESS OTHERWISE NOTED ALL OPEN DRAINS AND VENTS TO BE CS-117 PIPING.
 - 4. BLM BYPASS LINE R.O. IS SIZED TO PASS 450 GPM. ISOLATION VALVES V-10-17, V-10-18, V-10-22, V-10-22, V-10-51, V-10-66, V-10-183 HAVE DIAL LIGHT INDICATION IN THE MAIN CONTROL ROOM. ALL VENT & DRAINS 3/4" UNLESS OTHERWISE SPECIFIED.
 - 5. UNLESS OTHERWISE NOTED ALL OPEN DRAINS AND VENTS TO BE CS-117 PIPING.
 - 6. DENOTES ROOT VALVE.
 - 7. DESIGN TEMP FOR LINE NO 20" RHR-C IS 300° FROM THE INTERSECTION OF LINE 20" RHR-3C TO THE INTERSECTION OF LINE 16" RHR-5A. THE REST OF LINE IS DESIGNED TO 262°.
 - 8. A SINGLE 3/8" CS SCH 40 DRAIN LINE WAS INSTALLED BY PDR 91-002 AT A LOW POINT IN THE WATER TO DRAIN.
 - 9. LOWER DRAIN HEADER TO ALLOW FOR STANDING WATER TO DRAIN.
 - 10. PIPING FOR SERVICE WATER SHOWN AS GENERAL OUTLINE. FOR SERVICE WATER PIPING DETAILS SEE G-191159, SH-1.

PIPING LINE LIST		LINE NO.	LINE SIZE	PIPING	SCH.	TEMP	PSI	NOTE	LOCN
RHR-1A-D	20"	STD	CS-1	150	300	1.2			B-1
RHR-2A-D	20"	STD	CS-1	150	300	1.2			B-1
RHR-3A-D	20"	STD	CS-1	150	300	1.2			B-1
RHR-4A	4"	STD	CS-1	150	300	1.2			B-1
RHR-5A	16"	STD	CS-2	450	262	1.2			B-1
RHR-6	20"	STD	CS-2	450	262	1.2			B-1
RHR-7	20"	STD	CS-2	450	262	1.2			B-1
RHR-8	20"	STD	CS-2	450	262	1.2			B-1
RHR-9	20"	STD	CS-2	450	262	1.2			B-1
RHR-10	20"	STD	CS-2	450	262	1.2			B-1
RHR-11	4"	STD	CS-2	450	300	1.2			B-1
RHR-12	12"	STD	CS-1	150	300	1.2			B-1
RHR-13A-B	3"	STD	CS-2	450	300	1.2			B-1
RHR-13C-D	3"	STD	CS-2	450	300	1.2			B-1
RHR-14	12"	STD	CS-2	450	300	1.2			B-1
RHR-15	12"	STD	CS-2	450	300	1.2			B-1
RHR-16	12"	STD	CS-2	450	300	1.2			B-1
RHR-17	12"	STD	CS-2	450	300	1.2			B-1
RHR-18	4"	STD	CS-2	450	300	1.2			B-1
RHR-19	4"	STD	CS-2	450	300	1.2			B-1
RHR-20	12"	STD	CS-1	150	300	1.2			B-1
RHR-21	4"	STD	CS-1	150	300	1.2			B-1
RHR-22	4"	STD	CS-1	150	300	1.2			B-1
RHR-23	12"	STD	CS-1	150	300	1.2			B-1
RHR-24A-B	4"	STD	CS-1	150	300	1.2			B-1
RHR-24C	4"	STD	CS-2	450	300	1.2			B-1
RHR-24D	4"	STD	CS-2	450	300	1.2			B-1
RHR-25	24"	STD	CS-5	1250	575	1.1			B-1
RHR-26	24"	STD	CS-5	1250	575	1.1			B-1
RHR-27	24"	STD	CS-5	1250	575	1.1			B-1
RHR-28	24"	STD	CS-5	1250	575	1.1			B-1
RHR-29	24"	STD	CS-5	1250	575	1.1			B-1
RHR-30	24"	STD	CS-5	1250	575	1.1			B-1
RHR-31	24"	STD	CS-5	1250	575	1.1			B-1
RHR-32	20"	STD	CS-5	1250	575	1.1			B-1
RHR-33	20"	STD	CS-5	1250	575	1.1			B-1
RHR-34A	4"	STD	CS-2	450	262	1.2			B-1
RHR-34B	4"	STD	CS-2	450	262	1.2			B-1
RHR-35A	4"	STD	CS-2	450	300	1.2			B-1
RHR-35B	4"	STD	CS-2	450	300	1.2			B-1
RHR-36A	4"	STD	CS-2	450	300	1.2			B-1
RHR-36B	4"	STD	CS-2	450	300	1.2			B-1
RHR-37A	4"	STD	CS-1	150	300	1.2			B-1
RHR-37B	4"	STD	CS-1	150	300	1.2			B-1
RHR-38A-B	4"	STD	CS-2	450	300	1.2			B-1
RHR-39	8"	STD	CS-1	150	150	1.2			B-1
RHR-40	8"	STD	CS-2	450	262	1.2			B-1
RHR-41A	10"	STD	CS-2	450	262	1.2			B-1
RHR-42A-B	4"	STD	CS-2	450	300	1.2			B-1
RHR-43A-B	4"	STD	CS-1	150	300	1.2			B-1
RHR-44A-B	4"	STD	CS-2	450	300	1.2			B-1
RHR-45A-B	4"	STD	CS-2	450	300	1.2			B-1
RHR-46A-B	10"	STD	CS-2	450	262	1.2			B-1
RHR-47	2"	SML	CS-1	150	500	-			B-1
RHR-48	2"	SML	CS-5	1250	575	-			B-1
RHR-49	2"	SML	CS-2	450	300	-			B-1
RHR-50	1 1/2"	SML	CS-5	1250	575	-			B-1
CST	4"	STD	CS-1	150	175	1.6			B-1

- REFERENCE DRAWINGS (CONTINUED (K-M))
- FLOW DIAGRAM-REACTOR CORE ISOLATION COOLING SYSTEM G-191174
 - FLOW DIAGRAM-RADIATE SYSTEM G-191177
 - FLOW DIAGRAM-REACTOR WATER CLEAN-UP SYSTEM G-191178
 - RCD. RESIDUAL HEAT REMOVAL SYSTEM (3 SHEETS) 5920-27, 5920-28, 5920-29
 - FCD. NUCLEAR BOILER MISC SYSTEM (2 SHEETS) 5920-611, 5920-612
 - IED REACTOR PROTECTION SYSTEM (5 SHEETS) 5920-272, 5920-273, 5920-274
 - GE. MED MASTER PARTS LIST FCF 19.0X0.4#10 5920-1653

- POWER SUPPLY ASSIGNMENTS
- TO PLC 2-166 FOR CONT SEE (I-16)
 - TO FT-10A FOR CONT SEE (I-10A)
 - TO FT-10-109A FOR CONT SEE (I-10-109A)
 - TO FT-10-109B FOR CONT SEE (I-10-109B)
 - TO FT-14.40A FOR CONT SEE (I-14.40A)
 - TO FT-14.40B FOR CONT SEE (I-14.40B)

- LEAK DETECTION SYSTEM
- SEE NOTE 15
- ACCUMULATOR S-26A
- CLOSE VALVES ON ISOLATION SIGNAL
- AUTO VALVE CLOSE SIGNAL
- NOTE 15
- TO REACTOR WATER CLEAN-UP SYSTEM (SEE G-191178) SH-1 (D-1)
- TO PROTECTION SYSTEM (SEE G-191175) SH-1
- TO PROTECTION SYSTEM (SEE G-191175) SH-1
- TO PROTECTION SYSTEM (SEE G-191175) SH-1
- TO WASTE COLLECTOR FROM CORE SPRAY (CONT SEE (I-5))
- TO WASTE COLLECTOR FROM CORE SPRAY (CONT SEE (I-5))
- TO WASTE COLLECTOR FROM CORE SPRAY (CONT SEE (I-5))

LEGEND

▲ - ERFIS COMPUTER DATA SYSTEM

REFERENCE DRAWINGS:

- FWR SUCTION STRAINERS G-191155
- PIPING & INSTRUMENT SYMBOLS G-191155
- FLOW DIAGRAM-CIRCULATING SERVICE & COOLING WATER SYSTEMS G-191159
- FLOW DIAGRAM-CONDENSATE MAKE-UP SYSTEMS G-191176
- FLOW DIAGRAM-NUCLEAR BOILER G-191167
- FLOW DIAGRAM-REACTOR CORE SPRAY SYSTEM G-191168
- FLOW DIAGRAM-REACTOR HIGH PRESSURE COOLANT INJECTION SYSTEM G-191169
- REACTOR RESIDUAL HEAT REMOVAL SYSTEM PIPING PLAN G-191210
- FLOW DIAGRAM-FUEL POOL COOLING & A CLEAN-UP SYSTEM G-191172

NOTES:

1. UNLESS OTHERWISE NOTED ALL VALVES, INSTRUMENT NUMBERS & SPECIALTIES TO BE PROVIDED BY SYSTEM NUMBER 10. (SEE NOTE 12 FOR EXCEPTIONS)

2. ACTUAL TAGGING SHALL BE VY-08

3. VALVE IDENTIFICATION NO. PS-HB

4. INSTRUMENT TAGGING SHALL BE PS-10-108

5. TYPE OF INSTRUMENT SYSTEM NO.

6. INSTRUMENT DESIGNATION NO.

7. FOR SPECIALTY SR-40

8. ACTUAL TAGGING SHALL BE SR-10-10

9. TYPE OF SPECIALTY SYSTEM NO.

10. SPECIALTY IDENTIFICATION

(FOR CONTINUATION OF NOTES SEE (A-15))

COMPONENTS SUBJECT TO AMR

- RESIDUAL HEAT REMOVAL SYSTEM AMR-02
- HIGH PRESSURE COOLANT INJECTION SYSTEM AMR-05
- PRIMARY CONTAINMENT ATOMOSPHERE CONTROL AND ATMOSPHERE DILUTION SYSTEM AMR-08
- SERVICE WATER SYSTEM AMR-11
- FUEL POOL COOLING SYSTEMS AMR-14
- REACTOR VESSEL AMR-31
- REACTOR COOLANT SYSTEM PRESSURE BOUNDARY AMR-33

VERMONT YANKEE NUCLEAR POWER CORPORATION
VERMONT YANKEE NUCLEAR POWER STATION
VERMONT, VERMONT

FLOW DIAGRAM
RESIDUAL HEAT REMOVAL SYSTEM

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHK	APP
0	10-31-05				
1					

LRA-G-191172-0

SCALE NAME

DATE JAN 31, 1966

APPROVED

DR. J. W. MURPHY

DATE 12-12-72

SCALE NAME

DATE 12-12-72

SCALE NAME

DATE 12-12-72