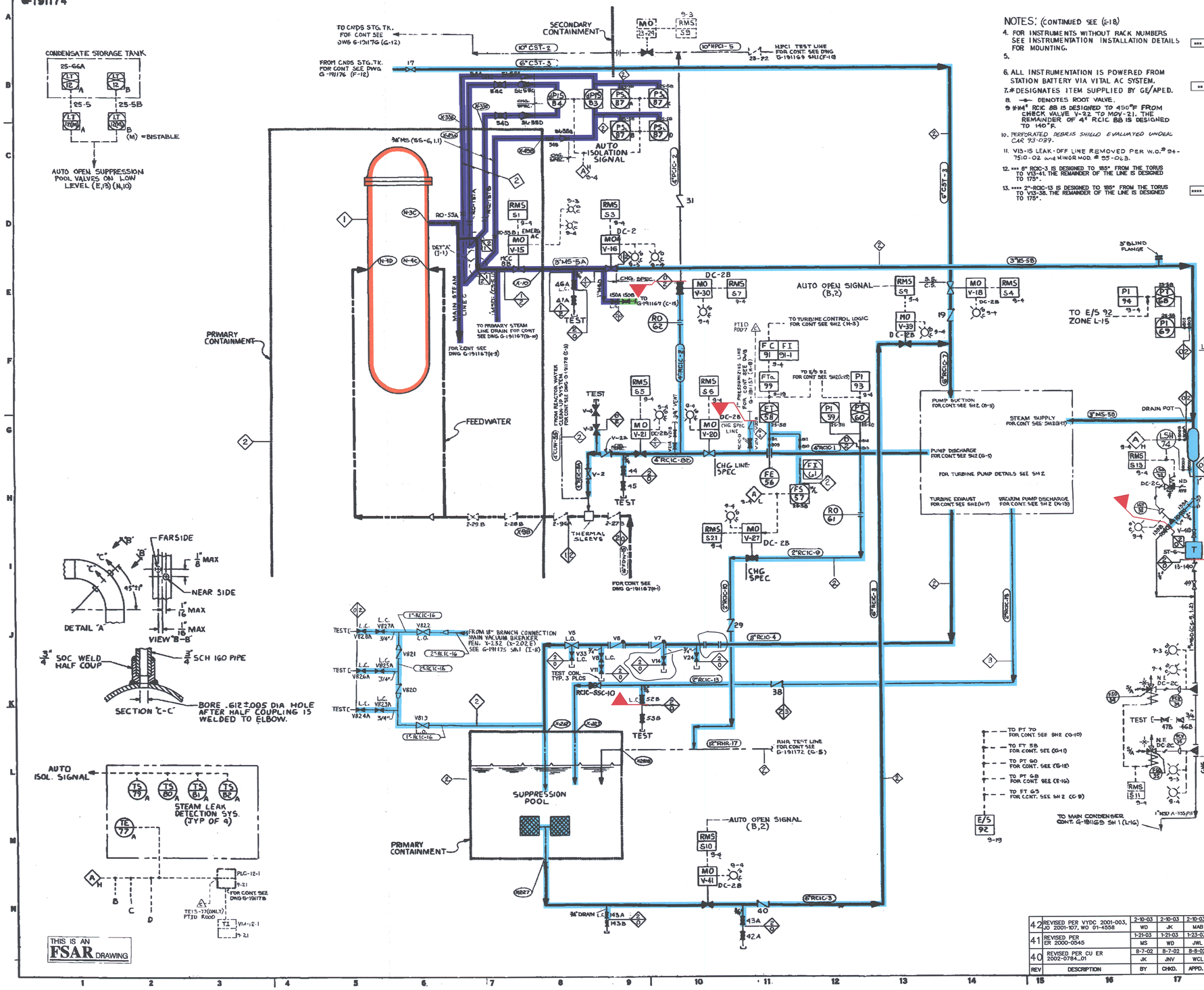
G-191174



NOTES: (CONTINUED SEE (J-18)

4. FOR INSTRUMENTS WITHOUT RACK NUMBERS SEE INSTRUMENTATION INSTALLATION DETAILS FOR MOUNTING.
5.
6. ALL INSTRUMENTATION IS POWERED FROM STATION BATTERY VIA VITAL AC SYSTEM.
7. * DESIGNATES ITEM SUPPLIED BY GE/APED.
8. —◆— DENOTES ROOT VALVE.
9. ** 4" RCIC 8B IS DESIGNED TO 450°F FROM CHECK VALVE V-22 TO MOV-21. THE REMAINDER OF 4" RCIC 8B IS DESIGNED TO 140°F.
10. PERFORATED DEBRIS SHIELD EVALUATED UNDER CAR 93-039.
11. V13-15 LEAK-OFF LINE REMOVED PER W.O.# 94-7510-02 and MINOR MOD. # 95-013.
12. *** 8" RCIC-3 IS DESIGNED TO 185° FROM THE TORUS TO V13-41. THE REMAINDER OF THE LINE IS DESIGNED TO 175°.
13. **** 2"-RCIC-13 IS DESIGNED TO 185° FROM THE TORUS TO V13-38. THE REMAINDER OF THE LINE IS DESIGNED TO 175°.

PIPING LINE LIST

LINE NO.	LINE SIZE(S)	PIPE SCH	PIPE MATL	DESIGN PRESS. PSIG	DESIGN TEMP °F	CONDITION SPEC. PIPING NO.	LOC'N
RCIC-1	4"	120	CS-5	1900	175	1.2	J-18
RCIC-2	4"	120	CS-5	1900	140	1	F10
*** RCIC-3	6"	STD	CS-1	150	175		N-12
RCIC-4	8"	STD	CS-1	150	325		J-9
RCIC-5A	8"	STD	CS-1	150	325		DP5, E-10, SH-17, 18, 11
RCIC-6	3"	STD	CS-1	150	325		
RCIC-7	6"	STD	CS-1	150	175		F-14
** RCIC-8B	4"	120	CS-5	1900	140		H-8
RCIC-9	2"	160	CS-5	1500	175		I-11
RCIC-10	2"	80	CS-1	150	175		J-11
RCIC-11	2"	160	CS-5	1500	175		G-7
RCIC-12, 14	2", 1½"	80	CS-1	150	175	1	DP2, E-10
RCIC	2" & SM.	160	CS-5	1900	400		—
RCIC	2" & SM.	80	CS-1	150	325	1	
RCIC-8A	4"	120	CS-5	1900	450	1.1	G10
RCIC-5B	8"	STD	CS-1	150	325	1.7	DP2, E-10
RCIC-15	1"	160	CS-5	1500	175	—	G-11
CST-3	6"	40S	SS-1	150	175	1.6	B8
RCIC-16	1", 2"	80	CS-1	150	325	1.2	K-6
**** RCIC-13	2"	80	CS-1	150	175	1	K-11
MS-5A	3"	160	CS-5	1250	575	1.1	D8
MS-5B	3", 2"	160	CS-5	1250	575	1.2	D15
MS5D	2" & SM.	80	CS-1	150	325	1.6	
MS5D	2" & SM	160	CS-5	1250	575	1.2	
MS5D	1"	80	A335, P11	1250	375	1.6 R	—

LEGEND

A - ERFIS COMPUTER DATA SYSTEM

NOTES

- UNLESS OTHERWISE NOTED ALL VALVE AND INSTRUMENT NUMBERS TO BE PREFIXED BY SYSTEM NUMBER 13
  FOR EXAMPLE: FOR VALVE V-19
  ACTUAL TAGGING SHALL BE V 13-19 — VALVE IDENTIFICATION
  SYSTEM NO.
  VALVE IDENTIFICATION NO.
  FOR INSTRUMENT NO. FI-69
  ACTUAL TAGGING SHALL BE FI-13-69 — TYPE OF INSTRUMENT
  SYSTEM NO.
  INSTRUMENT DESIGNATION NO.
  FOR SPECIALTY SR-40
  ACTUAL TAGGING SHALL BE SR-13-40 — TYPE OF SPECIALTY
  SYSTEM NO.
  SPECIALTY IDENTIFICATION
- 2. UNLESS OTHERWISE NOTED ALL OPEN DRAINS AND VENTS SHALL BE CS-1, 1.7 PIPING
- 3. UNLESS OTHERWISE NOTED, ALL BRANCH CONNS FOR DRAINS, VENTS AND TEST SHALL BE OF SAME MATERIAL & SPECIFICATION AS THE HEADER UP TO AND INCLUDING SECOND SHUT-OFF VALVE.

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

REFERENCE DRAWINGS:

- LIST OF DRAWINGS A-191154
- VALVE & SPECIALTY LIST A-191157
- PIPING & INSTRUMENT SYMBOLS . . . G-191155
- FLOW DIAGRAM CONDENSATE & DEMIN. WATER TRANSFER SYSTEM G-191176
- REACTOR CORE ISOLATION COOLING PIPING - PLAN G-191208
- FLOW DIAGRAM - NUCLEAR BOILER . . . G-191167
- FLOW DIAGRAM - REACTOR HIGH PRESSURE COOLANT INJECTION SYSTEM . . . G-191169
- FLOW DIAGRAM - RESIDUAL HEAT REMOVAL SYSTEM . . . G-191172
- FLOW DIAGRAM REACTOR WATER CLEAN-UP SYSTEM . . . G-191178
- DIAGRAM - NUCLEAR BOILER VESSEL INSTRUMENTATION . . . G-191267
- PROCESS DIAGRAM REACTOR CORE ISOLATION COOLING SYSTEM . . . 5920-605
- FCG REACTOR CORE ISOLATION COOLING SYSTEM (3 SHEETS) . . . 5920-25, 5920-26, 5920-49C
- GE-APED MASTER PARTS LIST FCF194X84(12)
- RCIC TURBINE OIL PIPING DIAGRAM 5720-1047

AS BUILT
DATE 12-12-92 APPROVED

REPRODUCED FROM GE DWG 728E941 SHEET 1 REV. 3

REV	DESCRIPTION	BY	CHKD.	APPD.
42	REVISED PER VYDC 2001-003, JO 2001-107, WO 01-4558	2-10-03 WD	2-10-03 JK	2-10-03 MAB
41	REVISED PER ER 2000-0545	1-21-03 MS	1-21-03 WD	1-23-03 JWL
40	REVISED PER CU ER 2002-0784_01	8-7-02 JK	8-7-02 JNV	8-8-02 WCL

VERMONT YANKEE NUCLEAR POWER CORPORATION
VERMONT YANKEE NUCLEAR POWER STATION
VERNON, VERMONT
FLOW DIAGRAM
REACTOR CORE ISOLATION COOLING SYSTEM
YANKEE SERVICES INCORPORATED NEW YORK
SCALE NONE
APPROVED
DATE APR 29 1993
DR. MECH.
DR. ELECTRICAL
CH. ELECTRICAL
G-191174
SHEET 1 OF 2

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

- REACTOR CORE ISOLATION COOLING SYSTEM AMRM-06
- MAIN CONDENSER AND MSIV LEAKAGE PATHWAY AMRM-26
- REACTOR VESSEL AMRM-31
- REACTOR COOLANT SYSTEM PRESSURE BOUNDARY AMRM-33

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	4-14-05	.				

REVISIONS

LRA-G-191174-SH-01-0

CAD FILE LRA-G-191174-SH-01_42.DGN
RASTER FILE G-191174-SH-01_42.TIF

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