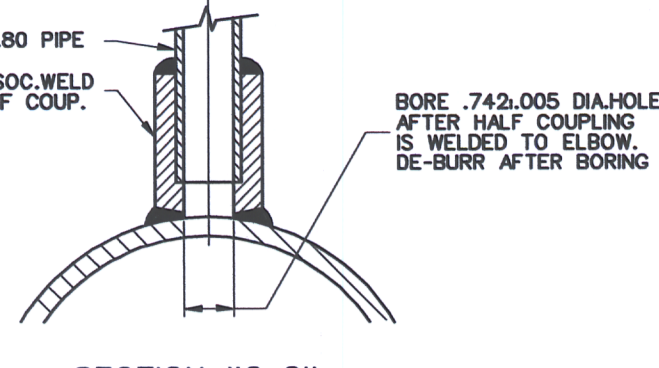
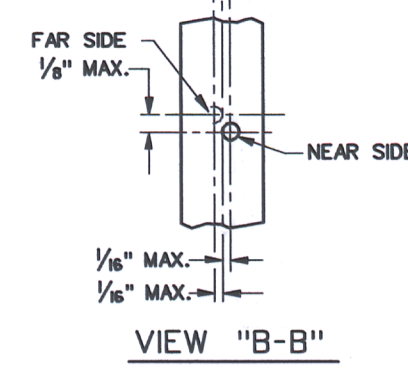
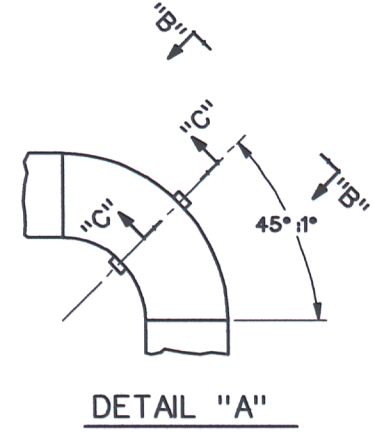


G-191169 SH.1



PIPING LINE LIST									
LINE NO.	LINE SIZES	SCH	MAT'L	DESIGN PRESS	DESIGN TEMP	ASME CODE	SPEC PART NO.	LOC	
HPCI-1	14,16	STD	CS-1	150	175	1.2		1E-10	
HPCI-2	14	80	CS-5	1250	140	1.2		1E-10	
HPCI-3	18,20,24	STD	CS-1	150	350	1.2		1E-10	
HPCI-4	18	STD	CS-1	150	175	1.2		1L-5	
HPCI-5	10	120	CS-5	1900	140	1.2		1F-7	
HPCI-6	4	80	CS-5	1250	175	1.2		1G-8	
HPCI-7	4	STD	CS-1	150	175	1.2		1G-9	
HPCI-8	2	80	CS-2	500	140	1.2		1G-10	
HPCI-9	2	80	CS-1	150	140	1.2		1G-11	
HPCI-10	2	80	CS-1	150	140	1.2		1G-12	
HPCI-11	2	80	CS-1	150	175	1.2		1G-13	
HPCI-12	2.4	80/STD	CS-1	150	175	1.2		1G-14	
HPCI-13	3	STD	CS-1	150	175	1.6		1G-15	
HPCI-14A	16	STD	CS-1	150	350	1.2		1G-16	
HPCI-14B	16	STD	CS-1	150	350	1.7		1G-17	
HPCI-15A	14	120	CS-5	1900	400	1.1		1G-18	
HPCI-15B	14	120	CS-5	1900	140	1.2		1G-19	
HPCI-16	2	80	CS-1	150	350	1.2		1J-11	
HPCI-17	2	80	CS-1	150	200	1.2		1K-10	
HPCI-18	10	100	CS-5	1250	175	1.2		1K-11	
HPCI-19	2, 3	80	CS-1	150	350	1.2		1-2	
HPCI	2" & 3"	80	CS-5	—	175	—		—	
HPCI	2" & 3"	80	CS-1,2	—	175	—		—	
MS-4A	10	80	CS-5	1250	575	1.1		1D-4	
MS-4B	10	80	CS-5	1250	575	1.2		1G-13	
MS	2" & 3"	160	CS-5	1250	575	1.1, 1.2		—	
CST-1	14	20	SS-1	150	175	1.6		1B-10	
CST-2	10	20	SS-1	150	175	1.6		1C-7	
MSD	2" & 3"	160	CS-5	1250	575	1.6		—	
MSD	2" & 3"	80	CS-1	1250	350	1.6		—	
MSD	2"	80	A-335, P11	1250	350	1.6R		—	

NOTES:

- UNLESS OTHERWISE NOTED ALL VALVES, INSTRUMENT NUMBERS AND SPECIALTIES TO BE PREFIXED BY SYSTEM NUMBER 23. FOR EXAMPLE FOR VALVE V-14 ACTUAL TAGGING SHALL BE V23-14 VALVE IDENTIFICATION SYSTEM No. SPECIALTY IDENTIFICATION No. FOR INSTRUMENT - PI-88 ACTUAL TAGGING SHALL BE PI-23-88 TYPE OF INSTRUMENT SYSTEM No. INSTRUMENT DESIGNATION No. FOR SPECIALTY - ST-3 ACTUAL TAGGING SHALL BE ST-23-3 TYPE OF SPECIALTY SYSTEM No. SPECIALTY IDENTIFICATION No.
- UNLESS OTHERWISE NOTED, ALL BRANCH CONNECTIONS FOR DRAINS, VENTS AND TESTS SHALL BE OF SAME MATERIAL & SPECIFICATION AS THE HEADER UP TO AND INCLUDING SECOND SHUT-OFF VALVE.
- UNLESS OTHERWISE NOTED, ALL OPEN DRAINS & OPEN VENTS SHALL BE OF CLASS 1.7 CS-1 PIPING.
- FOR INSTRUMENTS WITHOUT RACK NUMBERS SEE INSTRUMENTATION INSTALLATION DETAIL FOR MOUNTING.
- ALL INSTRUMENTATION IS POWERED FROM STATION BATTERY VIA VITAL AC SYSTEM.
- ALL INSTRUMENTATION IS POWERED FROM STATION BATTERY VIA VITAL AC SYSTEM.
- \* DESIGNATES ITEM SUPPLIED BY GE/APED.
- \* DENOTES ROOT VALVE.
- \* 14" HPCI-15B IS DESIGNED TO 400°F FROM CHECK VALVE V-18 TO MOV-19. THE REMAINDER OF 15B IS DESIGNED TO 140°F.
- PERFORATED DEBRIS SHED EVALUATED UNDER CAR 83-039.
- 16" HPCI-4 IS DESIGNED TO BE 185°F FROM THE TORUS TO V23-5B. THE REMAINDER OF THE LINE IS DESIGNED TO 175°F.
- HOTWELL IS PHYSICALLY PART OF GLAND SEAL CONDENSER.

REFERENCE DRAWINGS:

LIST OF DRAWINGS	A-19134
VALVE & SPECIALTY LIST	B-19137
PIPING & INSTRUMENT SYMBOLS	G-19155
FLOW DIAGRAM CONDENSATE & DEMIN. WATER TRANSFER SYSTEM	G-19176
REACTOR HIGH PRESSURE COOLANT INJECTION SYSTEM PIPING - PLAN	G-191223
FLOW DIAGRAM-NUCLEAR BLOWER	G-191224
FLOW DIAGRAM-RESIDUAL HEAT REMOVAL SYSTEM	G-19187
FLOW DIAGRAM-REACTOR CORE ISOLATION COOLING SYSTEM	G-19172
HVAC FLOW DIAGRAM-REACTOR BLDG. COOLING SYSTEM	G-19174
FLOW DIAGRAM-REACTOR WATER CLEAN-UP SYS.	G-191238
FLOW DIAGRAM-NUCLEAR BLOWER VESSELS INSTRUMENTATION	G-19178
F.C.D. HIGH PRESSURE COOLANT INJECTION SYSTEM (3 SHEETS)	G-191267
5920-38	
5920-39	
5920-441	
PROCESS DIAGRAM HIGH PRESSURE COOLANT INJECTION SYSTEM	5920-784
GE-APED MASTER PARTS LIST	FCF 194XB44(23)
HPCI TURBINE OIL PIPING	5920-870

LEGEND:

- ERFS COMPUTER DATA SYSTEM

REV	DESCRIPTION	BY	CHKD.	APPD.
4.7	REVISED PER ER-2000-0545	KM	WD	JNL
4.6	REVISED PER ER-2002-0794_01	JK	JNL	WCL

DATE: 1-21-03 1-21-03 1-23-03

YANKEE ATOMIC ELECTRIC COMPANY  
580 MAIN STREET BOLTON, MA.  
NUCLEAR SERVICES DIVISION  
VERMONT YANKEE NUCLEAR POWER STATION  
VERNON, VERMONT

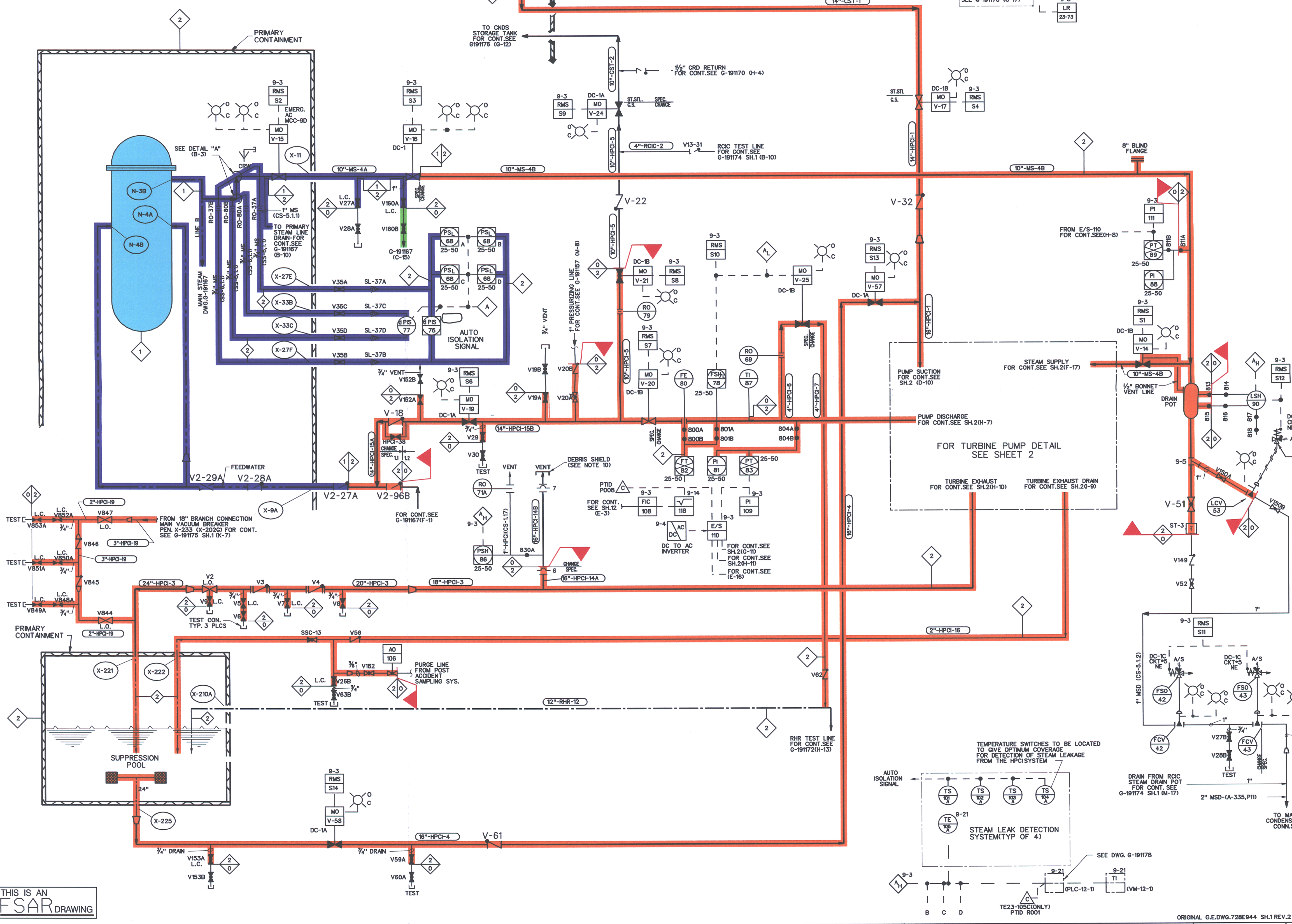
DRAWING TITLE: HIGH PRESSURE COOLANT INJECTION SYSTEM

JOB NO. DRAWING NO. G-191169 SH.1 OF 2

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

- HIGH PRESSURE COOLANT INJECTION SYSTEM AMRM-05
- MAIN CONDENSER AND MSIV LEAKAGE PATHWAY AMRM-26
- REACTOR VESSEL AMRM-31
- REACTOR COOLANT SYSTEM PRESSURE BOUNDARY AMRM-33



D-26

0 3-29-05

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
REVISIONS						
LRA-G-191169-SH-01-0						
DRAWING FILE: G-191169-SH-01_47.DGN						
PLOTTER FILE: N/A						