

PIPING LINE LIST									
LINE NO.	LINE SIZES	PIPE		DESIGN PRESS. PSIG	TEMP. F	NOMOS. SPEC. PART. NO.	LOCATION		
		SCH.	MAT'L						
HPCI-1	14, 16	STD	CS-1	150	175	1.2	IE-10		
HPCI-2	14	80	CS-5	1250	140	1.2	SA2 S2-20		
HPCI-3	8, 20, 24	STD	CS-1	150	350	1.2	SA2 S2-20		
HPCI-4	16	STD	CS-1	150	175	1.2	(L-5)		
HPCI-5	10	120	CS-5	1800	140	1.2	(F-7)		
HPCI-6	4	80	CS-5	1250	175	1.2	(G-9)		
HPCI-7	4	STD	CS-1	150	175	1.2	(G-9)		
HPCI-8	2	80	CS-2	500	140	1.2	SA2 S2-20		
HPCI-9	2	80	CS-1	150	140	1.2	SA2 S2-20		
HPCI-10	2	80	CS-1	150	140	1.2	SA2 S2-20		
HPCI-11	2	80	CS-1	150	175	1.2	SA2 S2-20		
HPCI-12	2, 4	80/STD	CS-1	150	175	1.2	SA2 S2-20		
HPCI-13	3	STD	CS-1	150	175	1.2	SA2 S2-20		
HPCI-14A	16	STD	CS-1	150	350	1.2	SA2 S2-20		
HPCI-14B	16	STD	CS-1	150	350	1.7	SA2 S2-20		
HPCI-15A	14	120	CS-5	1800	140	1.1	(G-5)		
HPCI-15B	14	120	CS-5	1800	140	1.2	(G-5)		
HPCI-16	2	80	CS-1	150	350	1.2	J-11		
HPCI-17	2	80	CS-1	150	200	1.2	SA2 S2-20		
HPCI-18	10	100	CS-5	1250	175	1.2	SA2 S2-20		
HPCI-19	2, 3	80	CS-1	150	350	1.2	1-2		
HPCI	2" x SM	160	CS-5	—	175	—	—		
HPCI	2" x SM	80	CS-1,2	—	175	—	—		
MS-4A	10	80	CS-5	1250	575	1.1	D-4		
MS-4B	10	80	CS-5	1250	575	1.2	G-13		
MS	2" x SM	160	CS-5	1250	575	1.1	12		
CST-1	14	20	SS-1	150	175	1.6	B-10		
CST-2	10	20	SS-1	150	175	1.6	C-7		
MSD	2" x SM	160	CS-5	1250	575	1.6	—		
MSD	2" x SM	80	CS-1	1250	350	1.6	—		
MSD	2"	80	A-335, P-11	1250	350	1.6R	—		

NOTES:

1. UNLESS OTHERWISE NOTED ALL VALVES, INSTRUMENT NUMBERS AND SPECIALTIES TO BE PREFIXED BY SYSTEM NUMBER 23.
- FOR INSTRUMENTS FOR VALVE-V-14  
ACTUAL TAGGING SHALL BE V23-14  
SYSTEM No. \_\_\_\_\_  
VALVE DESIGNATION No. \_\_\_\_\_  
FOR INSTRUMENT - PI-88  
ACTUAL TAGGING SHALL BE PI-23-88  
SYSTEM No. \_\_\_\_\_  
INSTRUMENT DESIGNATION No. \_\_\_\_\_  
FOR SPECIALTY -ST-3  
ACTUAL TAGGING SHALL BE ST-23-3  
TYPE OF SPECIALTY \_\_\_\_\_  
SYSTEM No. \_\_\_\_\_  
SPECIALTY IDENTIFICATION No. \_\_\_\_\_
2. UNLESS OTHERWISE NOTED, ALL BRANCH CONNECTIONS FOR DRAIN VENTS AND TESTS SHALL BE OF SAME MATERIAL & SPECIFICATION AS THE HEADER UP TO AND INCLUDING SECOND SHUT OFF BRANS & OPEN VENTS SHALL BE OF CLASS 1.7 CS-1 PIPING.
3. UNLESS OTHERWISE NOTED, OPEN DRAINS & OPEN VENTS SHALL BE OF CLASS 1.7 CS-1 PIPING.
4. FOR INSTRUMENTS WITHOUT RACK NUMBERS INSTRUMENTATION INSTALLATION DETAIL FOR MOUNTING.
5. ALL INSTRUMENTATION IS POWERED FROM STATION BATTERY VIA VITAL AC SYSTEM.
- 6.
7. DESIGNATES ITEM SUPPLIED BY GE/ADP.
8. -RENOTES ROB IS DESIGNED.
9. \*\* 14"-HQ-C-158 VALVE TO 400°F  
FROM CHECK VALVE V-18 TO MOV-9. THE REMAINDER OF V-18 IS DESIGNED TO 140°F
10. PERFORATED DEBRIS SHED EVALUATED UNDER CAR 93-039.
11. \*\* 14"-HQ-C-158 IS DESIGNED TO BE 185°F FROM THE TORUS TO V23-18. THE REMAINDER OF THE LINE IS DESIGNED TO 175°F.
12. HOTWELL IS PHYSICALLY PART OF GLAND SEAL CONSOLE.

REFERENCE DRAWINGS:


LIST OF DRAWINGS	A-191134
VALVE & SPECIALTY LIST	A-191137
PIPING & INSTRUMENT SYMBOLS	G-191155
FLOW DIAGRAM CONDENSATE & DEMIN.	
WATER TRANSFER	G-191176
REACTOR HIGH PRESSURE COOLANT	
INJECTION SYSTEM PIPING - PLAN	G-191223
INJECTION SYSTEM PIPING - SECTIONS	G-191224
FLOW DIAGRAM-NUCLEAR BOLLER	G-191167
FLOW DIAGRAM-RESIDUAL HEAT	
REMOVAL SYSTEM	
FLOW DIAGRAM-REACTOR CORE ISOLATION	G-191172
COOLING SYSTEM	G-191174
HVAC FLOW DIAGRAM-REACTOR BLDG.	G-191238
FLOW DIAGRAM-REACTOR BLDG. CLEAN-UP SYS.	G-191178
FLOW DIAGRAM-NUCLEAR BOLLER	
VESSEL INSTRUMENTATION	G-191267
F.C.D.HIGH PRESSURE COOLANT INJECTION	
	5820-35

	5920-38
	5920-441
PROCESS DIAGRAM HIGH PRESSURE	
COOLANT INJECTION SYSTEM	5920-784
GE-APED MASTER PARTS LIST	FCF 194X844(23)
HPCI TURBINE OIL PIPING	5920-870

LEGEND:

 - ERFIS COMPUTER DATA SYSYTEM

47	REVISED PER ER-2000-0545	1-21-03 KM	1-21-03 WD	1-23-03 JWL
46	REVISED PER ER 2002-0784_01	8-7-02 JK	8-7-02 JNL	8-12-02 WCL
REV	DESCRIPTION	BY	CHKD.	APPD.





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

DRAWING TITLE	FLOW DIAGRAM HIGH PRESSURE COOLANT INJECTION SYSTEM
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JOB NO.	DRAWING NO.	G-191169	SH.1 OF 1
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**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

0	3-29-05		.	.	.	.
NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
REVISIONS						
LRA-G-191169-SH-01-0						
CHO FILE LRA-G-191169-SH-01_47.DGN						
RASTER FILE N/A						