



ITEM	QTY	DESCRIPTION
1	2	0-100" PRESSURE GAUGE
2	1	1/2" CHOKE ORIFICE
3	6	0-30" PRESSURE GAUGE
4	5	STOP COCKS
5	1	A.O.P. PRESS SW CLOSE @20" OPEN @85"
6	1	ALARM PRESS SW CLOSE @ 0" OPEN @ 7"
7	7	THERMOCOUPLES
8	1	0-240" F DIAL THERMOMETER WITH CONTACTS FOR ALARM SET @ 150" F
9	1	1/2" CHOKE ORIFICE
10	1	2 WAY SOLENOID VALVE FOR REMOTE TRIP WHEN ENERGIZED
11	1	RELIEF VALVE SET @ 80"
12	1	100" TO 30" FISHER REDUCING VALVE
13	1	0-100" PRESSURE GAUGE
13A	1	0-200" PRESSURE GAUGE
14	1	RELIEF VALVE SET @ 105"
15	4	0-200" PRESSURE GAUGE
16	4	CHECK VALVES @ 1/2" (2", 1TC)
17	1	DIFFERENTIAL PRESSURE SWITCH FOR HIGH PRESSURE SET FOR 20PSI DIFFERENTIAL
18	1	AUX OIL PUMP TUTHILL *5 CEN
19	1	MAIN OIL PUMP MD
20	1	NEEDLE VALVE
21	1	1/2" ROBERTSHAW CONTROL VALVE NORMALLY CLOSED
22	1	AMOT THERMOSTAT VALVE 1/2" BOC-95 HPCI-TCV-1
23	1	1/2" CHOKE ORIFICE
24	2	FLEX HOSE (REF NOTE #1)
25	2	RETURN OIL SIGHT GLASSES
26	2	VEIBRATION PICK-UP COILS
27	1	0-600" PRESSURE GAUGE
28	2	1/4" NPT ROOT VALVES WHITEY SS-08NF-4-G
29	1	0-180" PRESSURE GAUGE

**NOTES:**  
 1. FOR OVERSPEED TRIP SEE B-997-X FLEX HOSE AT OIL PUMP DISCHARGE & STOP VALVE FEEDS. FLEX CONNECTORS AT GOV. DRAIN, PUMP SUCTION AND STOP VALVE DRAINS. LETTER P MEANS PIPE LETTER T MEANS TUBE SYSTEM NUMBER SHALL BE PI-23-1 TYPE OF INSTRUMENT INSTRUMENT DESIGNATION NO.  
 2. ALL PIPING AND INSTRUMENTATION ARE SAFETY CLASS 3 EXCEPT AS NOTED.  
 3. UNLESS OTHERWISE NOTED, ALL INSTRUMENT AND CONTROL VALVE NUMBERS SHALL BE PREFIXED BY SYSTEM NUMBER 23 FOR EXAMPLE PI-23-1  
 4. SEE DWG. 5920-1111 FOR ADDITIONAL INFORMATION.

SYSTEM INTENDED FUNCTION BOUNDARY  
 COMPONENTS SUBJECT TO AMR  
 HIGH PRESSURE COOLANT INJECTION SYSTEM AMRM-05

REV	DESCRIPTION	BY	CHKD.	APPD.
11	REVISED PER WOSE 2003-0132 WO 03-2443-000	SCB	RJB	MAB
10	REVISED PER WOSE 2002-197 WO 2002-0142	KM	RB	MAB

ENTERGY NUCLEAR VERMONT YANKEE  
 VERNON, VERMONT  
 HPCI TURBINE  
 OIL PIPING DIAGRAM  
 5920-870

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	11-15-05					

LRA-5920-00870-0  
 MASTER FILE  
 5920-00870-CALS\_11.CAL

**OIL PIPING DIAGRAM**  
 THIS DRAWING IS DIAGRAMMATIC ONLY FOR OUTLINE SEE DWG. E-4707

DOZ