

CONTAINMENT PENETRATIONS

PENETRATION NO. & P&ID	SYSTEM	ASSOCIATED EQUIPMENT	OUTSIDE CONT.	CONFIGURATION	INSIDE CONT.	ASSOCIATED EQUIPMENT
(X) 30 M-203	CONTAINMENT SPRAY PUMPS DISCHARGE	CONTAINMENT SPRAY PUMPS (P-54A,B,C)	TO PENE. NO. 33	CV-3001	TO PENE. NO. 33	CONTAINMENT SPRAY HEADER
(X) 31 M-203	CONTAINMENT SPRAY PUMPS DISCHARGE	CONTAINMENT SPRAY PUMPS (P-54A,B,C)	TO PENE. NO. 33	CV-3002	TO PENE. NO. 33	CONTAINMENT SPRAY HEADER
(X) 32 M-203 M-204	LOW PRESSURE SAFETY INJECTION	CONTAINMENT SPRAY PUMPS (P-54A,B,C) LOW PRESSURE SAFETY INJECTION PUMPS (P-67A,B)		CV-3006		PRIMARY COOLANT SYSTEM
(C-1) 33 M-204	SAFETY INJECTION AND REFUELING TANK DRAIN	SAFETY INJECTION AND REFUELING TANK (T-58)		MV-3348A		SAFETY INJECTION TANKS (T-82A,B,C,D)
34	SPARE					
(E-2) 35 M-204	SHUTDOWN COOLING RETURN	LOW PRESSURE SAFETY INJECTION PUMPS (P-67A,B) & SHUTDOWN COOLING HEAT EXCHANGERS (E-90A,B)		CV-3006		PRIMARY COOLANT SYSTEM
(B-1) 36 M-202	LETDOWN TO PURIFICATION ION EXCHANGER	PURIFICATION ION EXCHANGERS (T-51A,B), DEBORATING ION EXCHANGER (E-50) & LETDOWN CONTROL TANK (T-54)		CV-3009		PRIMARY COOLANT SYSTEM, REGENERATIVE HEAT EXCHANGER (E-50) & LETDOWN HEAT EXCHANGER (E-50)
(C-2) 37 M-210	PRIMARY SYSTEM DRAIN PUMP RECIRC	PRIMARY SYSTEM DRAIN TANK PUMPS (P-71A,B)		CV-3001		PRIMARY SYSTEM DRAIN TANK (T-74)
(C-2) 38 M-215	CONDENSATE RETURN FROM STEAM HEATING UNITS	CONDENSATE RECEIVER (T-20)		CV-1502		REACTOR BLDG UNIT HEATERS (VUH-19, 20, 21, 22, 23 & 24)
(C-3) 39 M-215	CONTAINMENT HEATING SYSTEM SEE NOTE 2 DWG. M-231	HEATING BOILER M-B		CV-1503		REACTOR BLDG UNIT HEATERS (VUH-19, 20, 21, 22, 23 & 24)
40 40B 40A	SAMPLE COOLANT HEADLOSS PENETRATION SUPPLY RETURN					

PENETRATION NO. & P&ID	SYSTEM	ASSOCIATED EQUIPMENT	OUTSIDE CONT.	CONFIGURATION	INSIDE CONT.	ASSOCIATED EQUIPMENT
(C-2) 41 M-210	DEGASSIFIER PUMP DISCHARGE	DEGASSIFIER PUMPS (P-48A,B) VACUUM DEGASSIFIER (T-97)		CV-1004		CLEAN WASTE RECEIVER TANKS (T-84A,B,C,D)
(C-2) 42 M-201	DEMNERIALIZED WATER TO QUENCH TANK	PRIMARY SYSTEM MAKE-UP WATER PUMPS (P-90A,B)		CV-1005		QUENCH TANK (T-73)
43	SPARE					
(B-1) 44 M-202	CONTROLLED BLEED OFF FROM RCPs	VOLUME CONTROL TANK (T-54)		CV-2083		PRIMARY COOLANT PUMP SEALS (P-50A,B,C,D)
(B-1) 45 M-202	CHARGING PUMP DISCHARGE	CHARGING PUMPS (P-50A,B,C) VOLUME CONTROL TANK (T-54)		CV-211		REGENERATIVE HEAT EXCHANGER (E-50) & REACTOR
(C-2) 46 M-211	CONTAINMENT VENT HEADER	WASTE GAS SURGE TANK (T-67)		CV-1102		PRIMARY SYSTEM DRAIN TANK (T-74), QUENCH TANK (T-73), SAFETY INJECTION TANKS (T-82A,B,C,D)
(C-2) 47 M-210	PRIMARY SYSTEM DRAIN TANK PUMP SUCTION	PRIMARY SYSTEM DRAIN TANK PUMPS (P-71A,B)		CV-1007		PRIMARY SYSTEM DRAIN TANK (T-74)
(X) 48 M-218	CONTAINMENT ISOLATION AND SAFETY INJECTION SIGNAL					
(C-2) 49 M-210	CLEAN WASTE RECEIVER TANK CIRC. PUMP SUCTION	RECEIVER TANK CIRC. PUMP (P-7)		CV-1036		CLEAN WASTE RECEIVER TANKS (T-84A,B,C,D)
(X) 50	EMERGENCY ACCESS					
(X) 51	EQUIPMENT DOOR					
(A-1) 52 52A 52B M-211	CONTAINMENT SUMP DRAIN TO SUMP TANK					FOR DETAIL OF PENS. 52, 52A, 52B & 56 SEE DWG. M-232 SH. 2A

PENETRATION NO. & P&ID	SYSTEM	ASSOCIATED EQUIPMENT	OUTSIDE CONT.	CONFIGURATION	INSIDE CONT.	ASSOCIATED EQUIPMENT
(X) 53 M-204	CONTAINMENT SPRAY PUMP SUCTION	CONTAINMENT SPRAY PUMPS (P-54A) LOW PRESSURE SAFETY INJECTION PUMP (P-67A) SHUTDOWN COOLING HEAT EXCHANGER (E-60A,B)		CV-3009		CONTAINMENT SUMP
(X) 54 M-204	CONTAINMENT SPRAY PUMP SUCTION	CONTAINMENT SPRAY PUMPS (P-54A,B) LOW PRESSURE SAFETY INJECTION PUMP (P-67B) SHUTDOWN COOLING HEAT EXCHANGER (E-60A,B)		CV-3009		CONTAINMENT SUMP
(C-1) 55 M-207 M-226	STEAM GENERATOR RECIRCULATION	FLASH TANK (T-53) - LETDOWN TANK (T-29B) STEAM GENERATOR BLOWDOWN PUMPS (P-90 A&B) BLOWDOWN HEAT EXCHANGER (E-31) BLOWDOWN DEMIN TANK (T-50) MAIN CONDENSER		CV-0738		STEAM GENERATOR (E-50B)
56 M-211 SH. 1	CONTAINMENT SUMP LEVEL INSTRUMENTATION					SEE PEN. 52 FOR SCHEM. ON PEN. 56
57	SPARE					
58	SPARE					
59	SPARE					
60	SPARE					
61	SPARE					
62	SPARE					
63	SPARE					
(A-2) 64 M-221	REACTOR CAVITY FILL & RECIRC.	FUEL POOL COOLING PUMP (P-51A,B) SPENT FUEL POOL HEAT EXCHANGERS (E-53A,B)		CV-1515FP		REACTOR CAVITY

ANSTEC APERTURE CARD

SEE SHEET 3 OF 3	CONSUMERS POWER CO. JACKSON, MICHIGAN	CONTAINMENT PENETRATIONS SHEET 2 OF 3
DATE: 10/19/88	BY: JKS	SCALE: NONE
APP: JKS	CHK: JKS	NO. 2
REV: 1	DATE: 10/19/88	REV: 2
REV: 2	DATE: 10/19/88	REV: 3
REV: 3	DATE: 10/19/88	REV: 4
REV: 4	DATE: 10/19/88	REV: 5
REV: 5	DATE: 10/19/88	REV: 6
REV: 6	DATE: 10/19/88	REV: 7
REV: 7	DATE: 10/19/88	REV: 8
REV: 8	DATE: 10/19/88	REV: 9
REV: 9	DATE: 10/19/88	REV: 10

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FDR RIDS

