



NO.	REFERENCE DRAWING & REVISION	DATE	PL. NO.	GE. NO.
1	NUCLEAR SOILER P&ID	M-141	E-106246	
2	HPCI FUNCTIONAL CONTROL DIAGRAM	M-101	E-106247	727627
3	HPCI PUMP TURBINE P&ID	M-105	E-106248	
4	P&ID LEGEND	M-102	E-106249	
5	COOL SPRAY P&ID	M-152	E-106257	
6	R/CIC P&ID	M-145	E-106254	
7	AUXILIARY STEAM P&ID	M-121	E-106256	
8	MAIN STEAM P&ID	M-101	E-106252	
9	CONDENSATE P&ID	M-105	E-106250	
10	CONDENSATE REFUELING WATER P&ID	M-108	E-106253	
11				
12	HPCI PROCESS DIAGRAM	M-101-A		THREESTOR
13	HPCI DESIGN SPEC. & DATA SHEET	M-101		THREESTOR
14				
15	AVL P&ID	M-101	E-106256	
16	CLEANING OF P&ID & EQUIPMENT	M-101	E-106256	11A1157
17	FACT. BUILDING LINER PLATE PERMIT	C-277, 279		
18	LIQUID CONDENSATE COLL. P&ID	M-104	E-106247	

- NOTES:**
1. PENETRATION LOCATION TO BE A MAXIMUM OF 3 FEET ABOVE NORMAL WATER LEVEL WITH PIPING EXTENDED 4 FEET BELOW LOW WATER LEVEL (ZONE C-7).
 2. AC POWER FOR HPCI INSTRUMENTS SHALL BE DERIVED FROM THE PLANT DC POWER SYSTEM, VIA AN INVERTER, THE DC SOURCE IS TO BE SEPARATE FROM THAT WHICH SUPPLIES THE R/CIC SYSTEM.
 3. THE GE. MFL NUMBER FOR THIS SYSTEM IS E-41.
 4. PIPING LINE FROM CONDENSATE SYSTEM SHOULD BE CONNECTED TO HIGH POINT OF PUMP DISCHARGE PIPING.
 5. HPCI ISOLATION IS INITIATED BY ANY OF THE FOLLOWING EVENTS:
 - A. EQUIPMENT ROOM VENTILATING AIR INLET & OUTLET HIGH DIFFERENTIAL TEMPERATURE.
 - B. EMERGENCY AREA COOLER INLET HIGH TEMPERATURE.
 - C. PIPE ROUTING AREA VENTILATING AIR INLET & OUTLET HIGH DIFFERENTIAL TEMPERATURE.
 - D. STEAM LINE HIGH PRESSURE DROP (STEAM LINE BREAK).
 - E. HIGH TURBINE EXHAUST DIAPHRAGM PRESSURE.
 - F. PIPE ROUTING AREA HIGH TEMPERATURE.
 - G. MANUAL INITIATION OF ISOLATION PUMP BUTTON.
 - H. LOW STEAM SUPPLY PRESSURE (REACTOR PRESSURE).
 - I. COMPUTER POINT IMPLEMENTATION LIST.
 7. MISC. VALVE NOS. INCLUDED ON THIS P&ID ARE I-55-001, THRU I-55-039, I-55-040 AND I-55-041. VALVE NOS. I-55-024 DELETED.
 8. VALVES I-55-015 AND I-55-039 SHALL BE LOCATED OUTSIDE THE STEAM TUNNEL. VALVE I-55-038 SHALL BE LOCKED OPEN AFTER HYDRO TEST OF THE VENT LINE.

UNCONTROLLED DOCUMENT
FOR REFERENCE ONLY

NO.	REVISION	DATE	BY	CHKD.	APP. (TITLE)
1	REVISED PER CHANGE LIST	10/1/77
2	REVISED PER CHANGE LIST	10/1/77
3	REVISED PER CHANGE LIST	10/1/77
4	REVISED PER CHANGE LIST	10/1/77
5	REVISED PER CHANGE LIST	10/1/77
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28	REVISED PER CHANGE LIST	10/1/77
29	REVISED PER CHANGE LIST	10/1/77
30	REVISED PER CHANGE LIST	10/1/77

PRC
APERTURE
CARD



PENNSYLVANIA POWER & LIGHT COMPANY		
ALLIANTON, PENNSYLVANIA		
NUCLEON STEAM ELECTRIC STATION - UNIT 1, UNIT 2		
MICHTEL - SAN FRANCISCO		
P&ID		
HIGH PRESSURE COOLANT INJECTION		
NO.	DATE	REV.
8856	M-155	17
E-106260		

RIDS

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