



TABLE G-2

VALUE OR HS	HS	HS	HS	HS
MV-1502	HS-1502A	HS-1502B	HS-1502C	HS-1502D
MV-1503	HS-1503A	HS-1503B	HS-1503C	HS-1503D
IP-219	HS-1509B	HS-1509C	HS-1509D	HS-1509E
IP-220	HS-1509B	HS-1509C	HS-1509D	HS-1509E

REV	REFERENCE DRAWINGS	REVISED	PL NO	DATE
1	RCIC P&ID	M-150	E-106255	12/22/85
2	P&ID LESION	M-150	E-106255	12/22/85
3	RCIC FUNCTIONAL CONTROL DIAGRAM	M-150	E-106255	12/22/85
4	NUCLEAR ROOM P&ID	M-150	E-106255	12/22/85
5	NUCLEAR ROOM FUNCTIONAL CONTROL DIAGRAM	M-150	E-106255	12/22/85
6	RESIDUAL HIGH REMOVAL P&ID	M-150	E-106255	12/22/85
7	NON-REMOVABLE COOLANT INJECTION P&ID	M-150	E-106255	12/22/85
8	RCIC TURBINE OUTLINE	M-150	E-106255	12/22/85
9	CONDENSATE P&ID	M-150	E-106255	12/22/85
10	CONDENSATE WATER STORAGE TREATMENT	M-150	E-106255	12/22/85
11	MAIN STEAM P&ID	M-150	E-106255	12/22/85
12	BARRETT'S CLEANING OPERATIONS	M-150	E-106255	12/22/85
13	LIQUID WASTE COLLECT P&ID	M-150	E-106255	12/22/85
14	RCIC SYS DISM SPECIFICATION	M-150	E-106255	12/22/85
15	RCIC OVERSPEED TRIP	M-150	E-106255	12/22/85
16	RCIC OIL P&ID DIAGRAM	M-150	E-106255	12/22/85
17	RCIC PROCESS DIAGRAM	M-150	E-106255	12/22/85
18	REACTOR VESSEL CLEANUP P&ID	M-150	E-106255	12/22/85
19	NUCLEAR COOLER LEAK DET. P&ID	M-150	E-106255	12/22/85
20	RCIC GOVERNOR CONTROL SYSTEM	M-150	E-106255	12/22/85
21	HIGH PRESSURE COOLANT INJECTION P&ID	M-150	E-106255	12/22/85
22	AUXILIARY STEAM P&ID	M-150	E-106255	12/22/85
23	NUCLEAR BOILER VESSEL INSTR P&ID	M-150	E-106255	12/22/85
24	RCIC TURBINE ACCESSORY LIST	M-150	E-106255	12/22/85
25	STEAM LEAK DETECTION SYSTEM	M-150	E-106255	12/22/85

- NOTES:
- SLOPE STEAM LINE DOWN ALL THE WAY FROM MAIN STEAM LINE TO DRAIN POT JUST AHEAD OF TURBINE.
 - A/C POWER FOR RCIC INSTRUMENTS SHALL BE DERIVED FROM "D-C" SOURCES SEPARATE FROM THOSE WHICH SUPPLY THE RCIC SYSTEM.
 - PIPING HIGH POINT VENTS & LOW POINT DRAINS TO BE ADDED AS INDICATED.
 - PIPING SHOULD BE CLEANED AND FLUSHED IN ACCORDANCE WITH REF 12 WATER FLUSHING, OR THE LINES WITH AIR, PURGE AND FILL WITH NITROGEN (REF 12).
 - THE BAROMETRIC CONDENSER AND VACUUM TANK SHALL BE LOCATED SUCH THAT ITS WATER LEVEL IS BELOW THE BOTTOM OF THE TURBINE EXHAUST FLANGE.
 - THE 6" MFL NUMBER FOR THIS SYSTEM IS 6511.
 - FOR INTERLOCKING REQUIREMENT AND AUTO VALVE ACTUATION SEE S.E. FUNCTIONAL CONTROL DIAGRAM, FIG. 3.
 - RCIC ISOLATION IS INITIATED BY ANY OF THE FOLLOWING CONDITIONS:
 - EQUIPMENT ROOM VENT AIR INLET IS OUTLET HIGH OVER TRIP.
 - EMERGENCY AREA COOLER INLET HIGH TEMP OR PIPE ROUTING AREA VENT AIR INLET OR OUTLET HIGH OVER TRIP (TIME DELAY).
 - PIPE ROUTING AREA HIGH TEMP (TIME DELAY).
 - STEAM LINE HIGH OVER PRESSURE.
 - LOW REACTOR PRESSURE.
 - HIGH RCIC TURBINE EXHAUST DIAGRAM PRESSURE.
 - MANUAL INITIATION OF ISOLATION REQUISITION.
 - SPECTACLE RINGS ARE TO BE USED AT THE TURBINE TRIP VALVE INLET, AND AT THE POINTS OF THE REMOVABLE SPOOL, CONNECTING THE RCIC SYSTEM TO AUX. STEAM.
 - FOR TURBINE LUBE OIL SYSTEM INSTRUMENT NUMBERS SEE SEE 14.
 - LAST VALVE NO. IS 150-012.
 - THE RCIC BAROMETRIC CONDENSER, CONDENSATE VACUUM PUMP, AND CONDENSATE PUMP, ALTHOUGH CLASSIFIED AS NON-CG AND NON-SEISMIC, HAVE BEEN DESIGNED AND ANALYZED TO WITHSTAND THE STATIC SEISMIC FORCES OF THE SAFE SHUTDOWN EARTHQUAKE WITHOUT FUNCTIONAL FAILURE.
 - FLANGE BETWEEN H&S-150-38 AND H&S-150-39 SHOULD BE LOCATED IN LINE TO BE AS NEAR AS POSSIBLE TO H&S-150-38. THIS FLANGE SHALL BE LOCATED AS CLOSE AS PRACTICABLE TO THE BAROMETRIC CONDENSER.

PRC APERTURE CARD



UNCONTROLLED DOCUMENT FOR REFERENCE ONLY

REV	DESCRIPTION	DATE	BY	CHKD
1	"AS-BUILT"	12/22/85		
2	REVISED PER CHANGE LIST (DCM), RCIC TURBINE P&ID, RCIC TURBINE P&ID, RCIC TURBINE P&ID	12/22/85		
3	REVISED PER CHANGE AT E&C'S MINT 150-150-38 AND PER CHANGE LIST 150-150-38 AND PER CHANGE LIST 150-150-38	12/22/85		
4	REVISED TO ACCURATE P&ID	12/22/85		
5	REVISED PER CHANGE SHEET	12/22/85		
6	REVISED AND ISSUED FOR DETAILED PIPING DESIGN	12/22/85		
7	REVISED AND ISSUED FOR DETAILED PIPING DESIGN	12/22/85		
8	PRELIMINARY ISSUE	12/22/85		

PENNSYLVANIA POWER & LIGHT COMPANY
 ALLENTOWN, PENNSYLVANIA
 MOON TOWN STEAM ELECTRIC STATION - UNIT 1, UNIT 2
 BECHTEL - SAN FRANCISCO

P&ID UNIT 1
 RCIC TURBINE-PUMP

REV NO	DATE	REV
8856	M-150	13
Q	E-106255	

17
 11
 8.5
 8.5
 11
 8.5
 11
 17

30X

MINOUS

RIDS

8309250359

