



8856-M-139

TABLE M-5
INSTRUMENT ASSIGNMENT FOR
STEAM LINE VALVE & TRIP VALVES

STEAM LINE	VALVE	TRIP VALVE	INSTRUMENT
A	101	102	IC401
B	103	104	IC402
C	105	106	IC403
D	107	108	IC404

REFERENCE DRAWINGS

REF. NO.	LEGEND & SYMBOLS, P.I.D.	SCALE	PL. NO.	GR. NO.
1	LEGEND & SYMBOLS, P.I.D.	M-100	E-106244	
2	NUCLEAR BOILER, P.I.D.	M-141	E-106244	
3	NUCLEAR BOILER, INSTR. P.I.D.	M-142	E-106244	
4	DESIGN SPEC. LEAKAGE CONTROL SYS.	M-143	E-106244	
5	MSIV LEAKAGE CONTROL SYS. P.I.D.	M-144	E-106244	
6	PIPING & TUBING, INSTR. P.I.D.	M-145	E-106244	
7	REACTOR PROTECTION SYS. I.B.D.	M-146	E-106244	
8	NUCLEAR BOILER, F.C.D.	M-147	E-106244	
9	MAIN STEAM, D.E.D.	M-148	E-106244	
10	CONTROL ROOM DRIVE, P.I.D.	M-149	E-106244	
11	COMPRESSED AIR SYS., P.I.D.	M-150	E-106244	
12	MSIV LCS, P.I.D.	M-151	E-106244	

- NOTES:
- THE INSTRUMENT NUMBERS FOR THE MSIV LEAKAGE CONTROL SYS. IS E-106244.
 - THE BALL CHECK VALVE SHALL BE INSTALLED IN A HORIZONTAL RUN WHICH IS AT LEAST FEET BELOW THE LOW PRESSURE MANIFOLD OR PIPING LOW POINT TO PERMIT DRAINAGE WITH THE MANIFOLD OR PIPING AT SUB-ATMOSPHERIC PRESSURE.
 - HOSE CONNECTION TO BE USED FOR SURVEILLANCE TESTING OF THE FLOW METERS.
 - ELECTRIC HEATER SHALL BE LOCATED AT SYSTEM PIPING LOW POINT AND THE HEATER SECTION PIPING SHALL BE HORIZONTAL. THE THERMOCOUPLE SHALL BE LOCATED AT THE OUTLET END UNDER THE PIPE INSULATION. THE THERMOCOUPLE SHALL BE NO FURTHER THAN 12 INCHES FROM THE HEATER ELEMENTS.
 - THE TWO VALVES IN SERIES SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO EACH OTHER AND BE LOCATED AS CLOSE AS PRACTICAL TO THE MAIN STEAM LINES.
 - TRIP-1053 IS ELECTRICALLY CONNECTED (GO FEET) TO TRIP-1054.
 - THE DETECTORS RE-INDICATE SHALL BE LOCATED AS CLOSE AS PRACTICAL TO THE CONTAINMENT. THE DETECTOR SHALL BE ADJUSTED SUCH THAT EACH DETECTOR WILL VIEW ALL STEAM LINES WITH APPROXIMATELY THE SAME RESPONSE.
 - MISCELLANEOUS VALVE NUMBERS USED ARE 1-33-0010 THROUGH 1-33-0008.
 - DRIVING RESTRAIN SHOULD BE INSTALLED AS CLOSE AS POSSIBLE TO FLOW ELEMENT FE-1000B.
 - THE DEPRESSURIZATION LINES SHALL TERMINATE AT AN APPROPRIATE LOCATION IN THE EXHAUST TUNNEL WHERE STEAM CAN BE DISCHARGED WITHOUT ADVERSELY AFFECTING EQUIPMENT.
 - LOW PRESSURE MANIFOLD SHALL TERMINATE AT POINT OF DISCHARGE EQUIPMENT EXHAUST SYSTEM REGISTER.
 - SEE REFERENCE 4 FOR ADDITIONAL DESIGN REQUIREMENTS.
 - TURBINE PERFORMANCE CONNECTIONS IN THE EXHAUST HOOD WILL BE USED FOR THESE PRESSURE SWITCHES.

TABLE A-8
POWER SUPPLY CONNECTION

ES-M-501	ES-M-502	ES-M-503	ES-M-504
ES-M-505	ES-M-506	ES-M-507	ES-M-508
ES-M-509	ES-M-510	ES-M-511	ES-M-512
ES-M-513	ES-M-514	ES-M-515	ES-M-516

PROC
APERTURE
CARD

UNCONTROLLED DOCUMENT
FOR REFERENCE ONLY

REVISION	DATE	BY	CHKD	APP'D
1	10/1/54	J. W. CRAN		
2	10/1/54	J. W. CRAN		
3	10/1/54	J. W. CRAN		
4	10/1/54	J. W. CRAN		
5	10/1/54	J. W. CRAN		
6	10/1/54	J. W. CRAN		
7	10/1/54	J. W. CRAN		
8	10/1/54	J. W. CRAN		
9	10/1/54	J. W. CRAN		
10	10/1/54	J. W. CRAN		

PENNSYLVANIA POWER & LIGHT COMPANY
 ALLIANCE WITH PENNSYLVANIA
 ELECTRICITY TRANSMISSION & DISTRIBUTION
 DIVISION, PITTSBURGH, PENNSYLVANIA

PROJECT - SAN FRANCISCO

P. & I. D. UNIT I
 MSIV - LEAKAGE CONTROL SYS.

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