

TABLE I  
 THE FOLLOWING VALVES INSIDE THE DRYWELL ARE EQUIPPED WITH VALVE STEM LEAK-OFF. TYPICAL ARRANGEMENT SHOWN (SH 4, J-6)

VALVES WITH LEAK-OFF	LOCATION	LEAK-OFF EQUIP SUFFIX	TR POINT NO.	ALARM GROUPING
B21-F022 A,B,C,D	REF 1, SHT 1, B-0	A1, A2, A3, A4	R016-1-4	SW1
B13-F023 A&B	REF 3, SHT 1, A-3	B1, B2	R012-1-4, 7&8	SW1
B33-F020 A&B	REF 3, SHT 1, A-3	B3, B4		
B33-F027 A&B	REF 3, SHT 1, A-3	B7, B8		
E12-F008	REF 8, SHT 2, J-5	C1	R012-9-12 SINCE 12/14	SW2
E12-F041A	REF 8, SHT 2, D-9	C2		
E12-F041B	REF 8, SHT 1, D-9	C3		
E12-F041C	REF 8, SHT 1, C-8	C4		
E22-F005	REF 7, SHT 1, 9-11	D1	R016-15	SW3
E51-F063	REF 10, SHT 2, B-0	E1	R012-16-17	SW4
E51-F066	REF 10, SHT 1, B-	E2		
G33-F001	REF 4, SHT 1, F-7	F1	R012-18 THRU 22	SW5
G33-F100	REF 4, SHT 1, F-5	F2		
G33-F101	REF 4, SHT 1, H-5	F3		
G33-F102	REF 4, SHT 1, F-5	F4		
G33-F106	REF 4, SHT 1, E-5	F5		
E21-F006	REF 13, SHT 1, B-3	G1	R012-23	SW6
B21-F001	REF 1, SHT 1, E-2	A5	R016-5	SW1
B21-F002	REF 1, SHT 1, E-2	A6		
B21-F005	REF 1, SHT 1, D-2	A7	11RL-8	SW1
B21-F016	REF 1, SHT 2, K-3	A8		

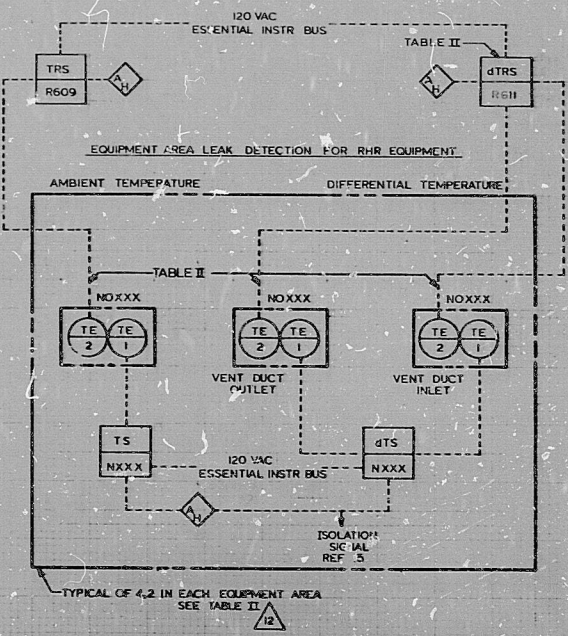
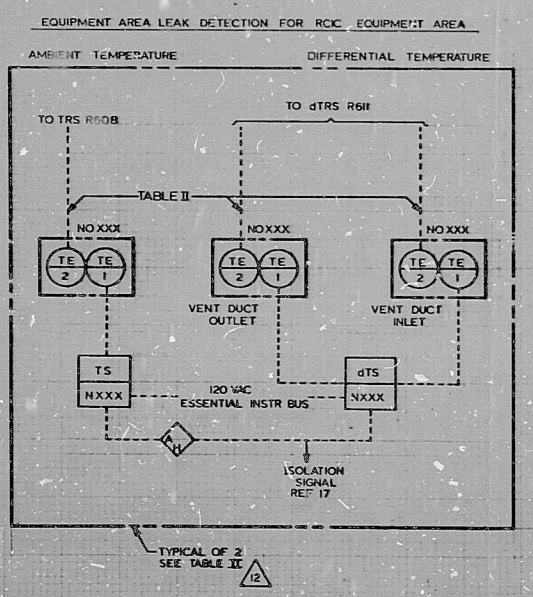
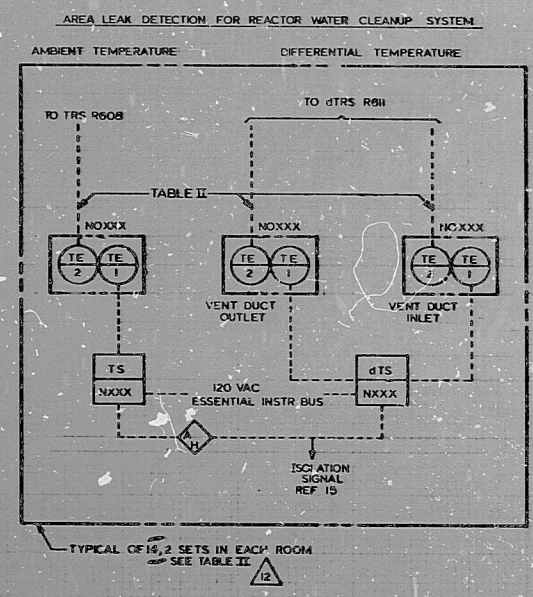
- NOTES:
- TEMPERATURE ELEMENTS IN THE PIPE AREA BETWEEN STEAM TUNNEL EXIT AND TURBINE ARE NOT WITHIN THE SCOPE OF THIS IED.
  - A GRAB SAMPLE CAPABILITY SHALL BE PROVIDED IN CONTAINMENT.
  - TYPICAL ARRANGEMENT SHOWN ON STEAM LINE 'A' FOR STEAM LINES B, C & D. THE dPTS AND dPS ARE NUMBERED (NO27A,B,C), (NO27B,A,B,C,D), (NO28A,B,C,D) & (NO28B,A,B,C,D), (NO29A,B,C,D) & (NO29B,A,B,C,D) RESPECTIVELY.
  - FOUR TEMPERATURE ELEMENTS SHALL BE EQUALLY SPACED IN THE VERTICAL DIRECTION OF THE DRYWELL.
  - INSTRUMENT LINE VALVING MUST COMPLY WITH INSTRUMENT PIPING STANDARD SUP DOC 3.
  - FOR LOCATION AND IDENTIFICATION OF INSTRUMENTS SEE EDOL REF 2.
  - ALL ALARMS SHALL BE LOCATED IN MAIN CONTROL ROOM.
  - DELETED
  - BYPASS TIMER SHALL BE PROVIDED TO OVERRIDE THE ISOLATION SIGNAL DURING THE REACTOR WATER CLEANUP SYSTEM SURGES.
  - PROVISIONS FOR CONTAINMENT INSTRUMENTATION LINES ARE NOT WITHIN THE SCOPE OF THIS SYSTEM DESIGN.
  - TYPICAL OF 4, ONE IN EACH MAIN STEAM LINE GUARD PIPE AREA. TE PLACED AT OPEN END OF GUARD PIPE TO DETECT LEAKAGE IN GUARD PIPE AREA.
  - DUAL THERMOCOUPLE TEIS FOR ISOLATION SIGNAL WHILE TE 2 IS FOR INDICATION ON SUFFIX 'A' EQUIPMENT.
  - TEMPERATURE ELEMENTS SHALL BE PLACED ALONG THE MSL PIPING APPROXIMATELY 36 INCHES ABOVE THE MSL. TEMPERATURE DETECTORS SHALL BE LOCATED OR SHIELDED SO THAT THE DETECTOR IS SENSITIVE TO THE AIR TEMPERATURE AND NOT THE RADIATED HEAT FROM HOT EQUIPMENT.
  - IN ADDITION TO CONTAINMENT AND DRYWELL SUMPS SHOWN IN THIS IED, RECOMMENDED AUXILIARY BUILDING SUMPS TO BE MONITORED ARE: RHR, RCIC, RWCU, MSL TUNNEL & MSL TURBINE BLDG.

REFERENCE DOCUMENTS:

REFERENCE DOCUMENTS	MPL ITEM NO.
1. NUCLEAR BOILER SYS P&ID	B21-1010
2. LOS TENDRIMAX DEVICE LIST	E31-150
3. REACTOR RECIRC SYSTEM P&ID	B33-1010
4. REACTOR WATER CLEANUP SYS P&ID	G33-1010
5. DELETED	
6. LOW PRESS. CORE SPRAY SYSTEM ELEM.	E21-1050
7. HIGH PRESSURE CORE SPRAY SYS P&ID	E22-1010
8. RHR SYSTEM P&ID	E12-1010
9. RHR SYSTEM P&ID	E12-1030
10. RCIC SYSTEM P&ID	E51-1010
11. RCIC SYSTEM P&ID	E31-1030
12. HIGH PRESSURE CORE SPRAY SYSTEM ELEM.	E22-1050
13. LOW PRESS. CORE SPRAY SYSTEM P&ID	E21-1010
14. PROCESS COMPUTER - I/O LISTING	C91-4030
15. NUC ST SUPPLY SHUTOFF SYS ELEM.	B21-1090
16. RHR SYSTEM ELEM.	ET2-1050
17. RCIC SYSTEM ELEM.	E51-1050

SUPPORTING DOCUMENTS:

SUPPORTING DOCUMENTS	MPL ITEM NO.
1. PIPING & INSTRUMENT SYMBOLS	A42-1010
2. PRESS. INTEGRITY OF NUCLEAR COMPONENTS SPEC.	A62-4030
3. PROCESS INSTRUMENT SPEC.	A62-4070
4. DRYWELL COOLING SYSTEM DESIGN SPEC.	A62-4200
5. ELECTRICAL SEPARATION SPEC.	A62-4050
6. MECHANICAL EQUIP. SEPARATION	A62-4150



APPERTURE CARD

NU50016	2	1-20-71	1	1-20-71	1	1-20-71	1
LD-520-8-72	1	1-20-71	1	1-20-71	1	1-20-71	1
LD-521-4-1	1	1-20-71	1	1-20-71	1	1-20-71	1
LD-526-1-1	1	1-20-71	1	1-20-71	1	1-20-71	1

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PDR RIDS

