

8001140150

NOTES: (CONT.)

14. THIS DRAWING INCLUDES EQUIPMENT IDENTIFIED AS PART OF THE PLANT PROTECTION SYSTEM (PPS) BEFORE MODIFYING OR MAINTAINING THE EQUIPMENT SO IDENTIFIED, THE APPROVAL OF THE SIGNIFICANT PERSONNEL FOR THE PPS MUST BE OBTAINED. THIS EQUIPMENT IS SPECIFICALLY IDENTIFIED ON THE DRAWING AS FOLLOWS: HY 30000, HY 30001, HY 30002 & HY 30003.
15. THIS LINE WAS FABRICATED TO ASME BOILER & PRESSURE VESSEL CODE SECT III CLASS I REQUIREMENTS, BUT HAS DOWNGRADED TO ASME BOILER & PRESSURE VESSEL CODE SECT III CLASS II.
16. SYSTEM 16 PRESSURE MONITORING EQUIPMENT LOCATED IN BLDG 491-5 SHALL INTERRUPT POWER TO SOLENOID VALVES UPON LOSS OF NEGATIVE PRESSURE IN CELL 400 (APPLIES TO HY 30000 AND HY 30001 ONLY).

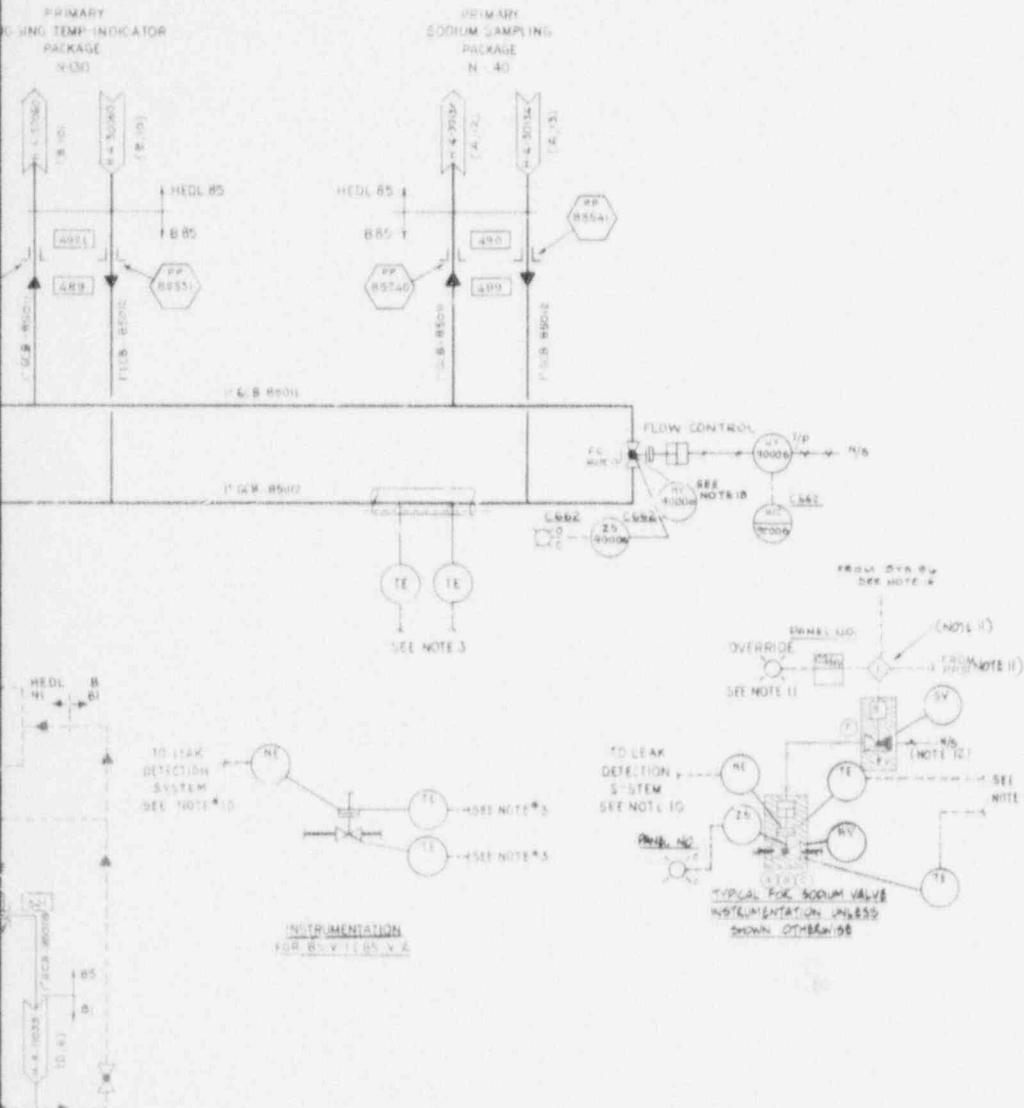


TABLE I - VALVE INSTRUMENTATION

VALVE NUMBER	NE	TS	I/P	SV	TS/HV	PARALLEL
HY 30000	10001	→	90 000	90 000	1 127	
HY 30001	10001	→	90 001	90 001	1 127	
HY 30002	10002	→	90 002	90 002	1 127	
HY 30003	10003	→	90 003	90 003	1 127	
HY 30004	10004	→	90 004	90 004	1 127	
HY 30005	10005	→	90 005	90 005	1 127	
HY 30006	10006	→	90 006	90 006	1 127	
HY 30007	10007	→	90 007	90 007	1 127	
HY 30008	10008	→	90 008	90 008	1 127	
HY 30009	10009	→	90 009	90 009	1 127	
HY 30010	10010	→	90 010	90 010	1 127	
HY 30011	10011	→	90 011	90 011	1 127	
HY 30012	10012	→	90 012	90 012	1 127	
HY 30013	10013	→	90 013	90 013	1 127	
HY 30014	10014	→	90 014	90 014	1 127	
HY 30015	10015	→	90 015	90 015	1 127	
HY 30016	10016	→	90 016	90 016	1 127	
HY 30017	10017	→	90 017	90 017	1 127	
HY 30018	10018	→	90 018	90 018	1 127	
HY 30019	10019	→	90 019	90 019	1 127	
HY 30020	10020	→	90 020	90 020	1 127	

ENGINEERING RELEASE
BY HEDL
REV. 1 DATE 1-1-73
ERO 6-10-73

THIS DRAWING IS CONTAINED
IN B.V. 1105
ALL CHANGES TO THIS DRAWING
MUST BE PROCESSED USING THE
SOD REVOLUTION PROCESS.

NEXT USED ON		REFERENCE DRAWINGS
REV. NO.	DATE	REVISIONS
HEDL DWG H-4-30200		P.I.D. AUXILIARY PLUGGING TEMPERATURE INDICATOR
HEDL DWG H-4-30060		P.I.D. PRIMARY PLUGGING TEMPERATURE INDICATOR
H-4-11031		P.I.D. REACTOR PRI SODIUM PROCESS SYSTEM, SYS B1
HEDL DWG H-4-30134		P.I.D. SODIUM SAMPLING PACKAGE (SSP) DISTRIBUTION LOOP
H-4-11035		P.I.D. TDS & PRI SODIUM STORAGE AND PROCESSING SYSTEM, SYS B1
H-4-11084		P.I.D. MAIN HEAT TRANSPORT REACTOR VESSEL, SYS B1
H-4-13427		ADJUSTMENT, H.T. 30 PRESS MONITORING PANEL C 345 X 10000 RELAYS
H-4-1047		SCHEMATIC DIAGRAM OF INITIAL CONTAINMENT ISOLATION VALVE OUTSIDE OF HT SYS B1

NOTES

1. THE MINIMUM REQUIRED SUCTION HEAD FOR THE HTS SAMPLING PUMP P-52 IS 2 FEET OF SODIUM.
2. ALL ALARMS ON LOCAL PANELS WILL BE CONNECTED TO A COMMON ALARM ANNUNCIATOR IN THE CONTROL ROOM.
3. SEE ELECTRICAL HEAT CONTROL DIAGRAM DRAWINGS H-4-3-42, THRU H-4-3-43.
4. FOR SYMBOLS & USAGE SEE LEGEND SHEETS H-4-109-94, 95, 96, 98 & 99.
5. PHASE FAILURE (ELECTRICAL OVERLOAD, INTERLOCKS) ARE SHOWN ON THE ELECTRICAL SCHEME DWG. FOR P-52.
6. SUPPLIED WITH HTS SAMPLING PUMP P-52.
7. (NOT USED)

8. AUTOMATIC SEQUENCE CONTROL AND INTERLOCK OFFSEQUENT WILL BE SHOWN ON LOGIC DIAGRAMS.
9. ALL SODIUM VALVES ARE SUPPLIED BY HEDL. PNEUMATIC OPERATING ARE SUPPLIED WITH THE VALVE. REAL RODS WITH FULLY POSITION INDICATORS ARE SUPPLIED BY BECHTEL. FOR VALVE INSTRUMENTATION, SEE THE VALVE INSTRUMENTATION TABLE AND VALVE DETAILS.
10. ALL COMPONENT LEAK DETECTORS ARE WIRED BACK TO INDICATORS ON PANELS C1210. EXCEPT COMMON ALARM C1210 IS WIRED TO CONTROL ROOM PANEL C136. SEE 50093 PART 13.
11. HAND SWITCH CAN ONLY OPEN VALVES IF HAND RELEASE IS CLOSED. SYSTEM 30 INTERLOCK CAN ONLY CLOSE VALVES.
12. PILOT SOLENOID VALVES ARE LOCATED OUTSIDE OF HEAT TRANSFER AREAS.
13. VALVE HY 30006 IS PROVIDED WITH ADJUSTABLE MECHANICAL STOP SO THAT MINIMUM FLOW IS MAINTAINED IF THE ACTUATOR LOSES PNEUMATIC SUPPLY.

REV.	DATE	BY	CHKD.	DESCRIPTION
1	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
2	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
3	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
4	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
5	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
6	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
7	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
8	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
9	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
10	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
11	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
12	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
13	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
14	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
15	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
16	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
17	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
18	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
19	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212
20	1-1-73	W. J. HEDL	W. J. HEDL	REVISED PER FCV H-4-1212

REVISIONS		DRAWING STATUS	
REV.	DATE	TYPE	DATA
1	1-1-73	TYPE	DATA
2	1-1-73	TYPE	DATA
3	1-1-73	TYPE	DATA
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17	1-1-73	TYPE	DATA
18	1-1-73	TYPE	DATA
19	1-1-73	TYPE	DATA
20	1-1-73	TYPE	DATA

U. S. ATOMIC ENERGY COMMISSION
RICHLAND OPERATIONS OFFICE
Hanford Engineering Development Laboratory
Bechtel, Inc.
SAN FRANCISCO
PIPING & INSTRUMENT DIAGRAM
PRIMARY SODIUM
SAMPLING-H.T. SYS B1
FAST FLUX TEST FACILITY
H-4-11036