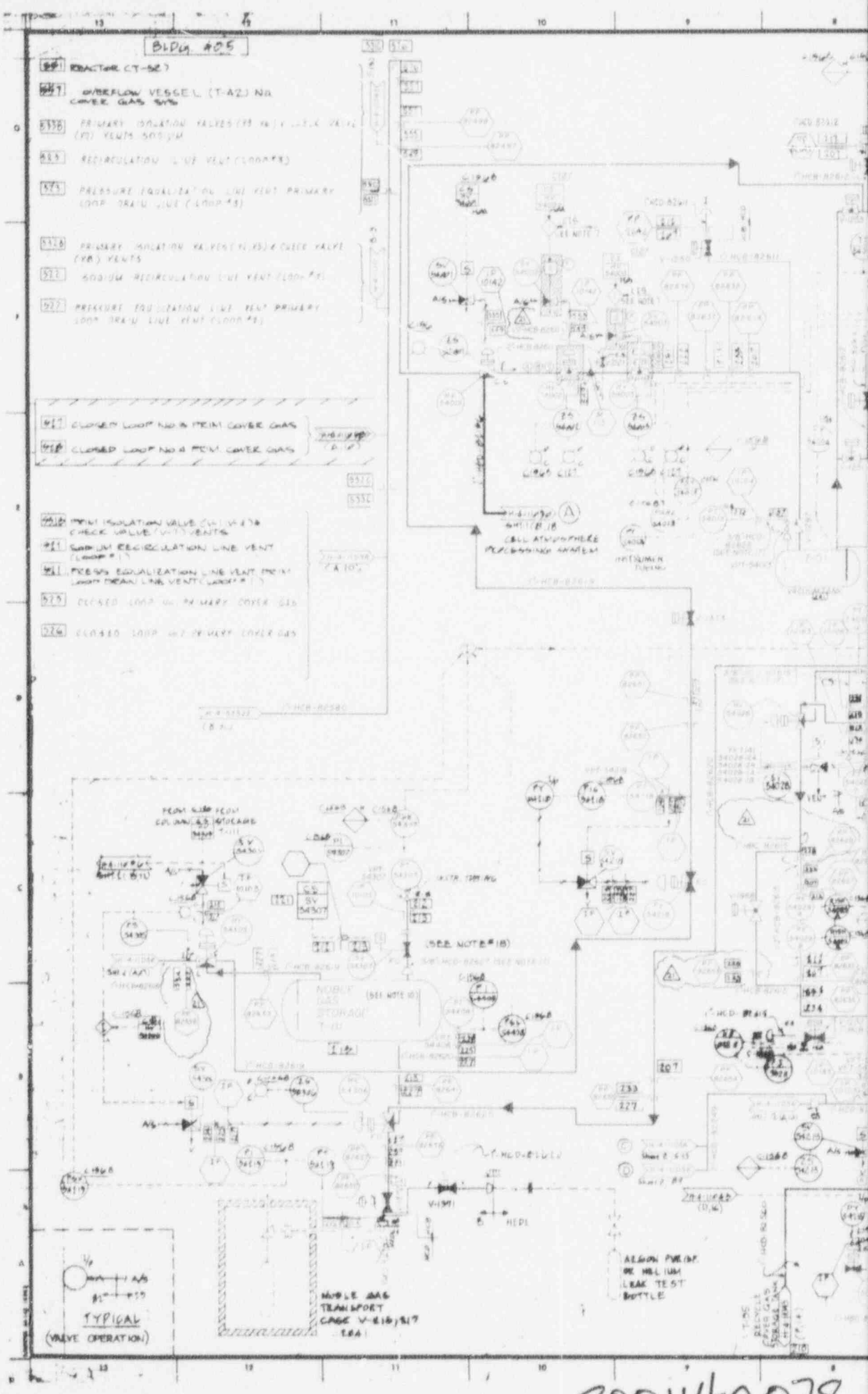
BLDG 405
REACTOR (T-5E)
OVERFLOW VESSEL (T-A2) NA COVER GAS SYS
PRIMARY ISOLATION VALVES (PX) & CHECK VALVE (PY) VENTS SODIUM
RECIRCULATION LINE VENT (LOOP #3)
PRESSURE EQUALIZATION LINE VENT PRIMARY LOOP DRAIN LINE (LOOP #3)
PRIMARY ISOLATION VALVES (NX) & CHECK VALVE (NY) VENTS
SODIUM RECIRCULATION LINE VENT (LOOP #2)
PRESSURE EQUALIZATION LINE VENT PRIMARY LOOP DRAIN LINE VENT (LOOP #2)
CLOSED LOOP NO 3 PRIM COVER GAS
CLOSED LOOP NO 2 PRIM COVER GAS
MAIN ISOLATION VALVE (M) & CHECK VALVE (N) VENTS
SODIUM RECIRCULATION LINE VENT (LOOP #)
PRESS EQUALIZATION LINE VENT FROM LOOP DRAIN LINE VENT (LOOP #)
CLOSED LOOP NO 1 PRIMARY COVER GAS
CLOSED LOOP NO 2 PRIMARY COVER GAS
CELL ATMOSPHERE PROCESSING SYSTEM
INSTRUMENT TUBING
(SEE NOTE #18)
TYPICAL (VALVE OPERATION)
NOBLE GAS TRANSPORT CASE V-E16/E17
ARGON PURGE OR HELIUM LEAK TEST BOTTLE

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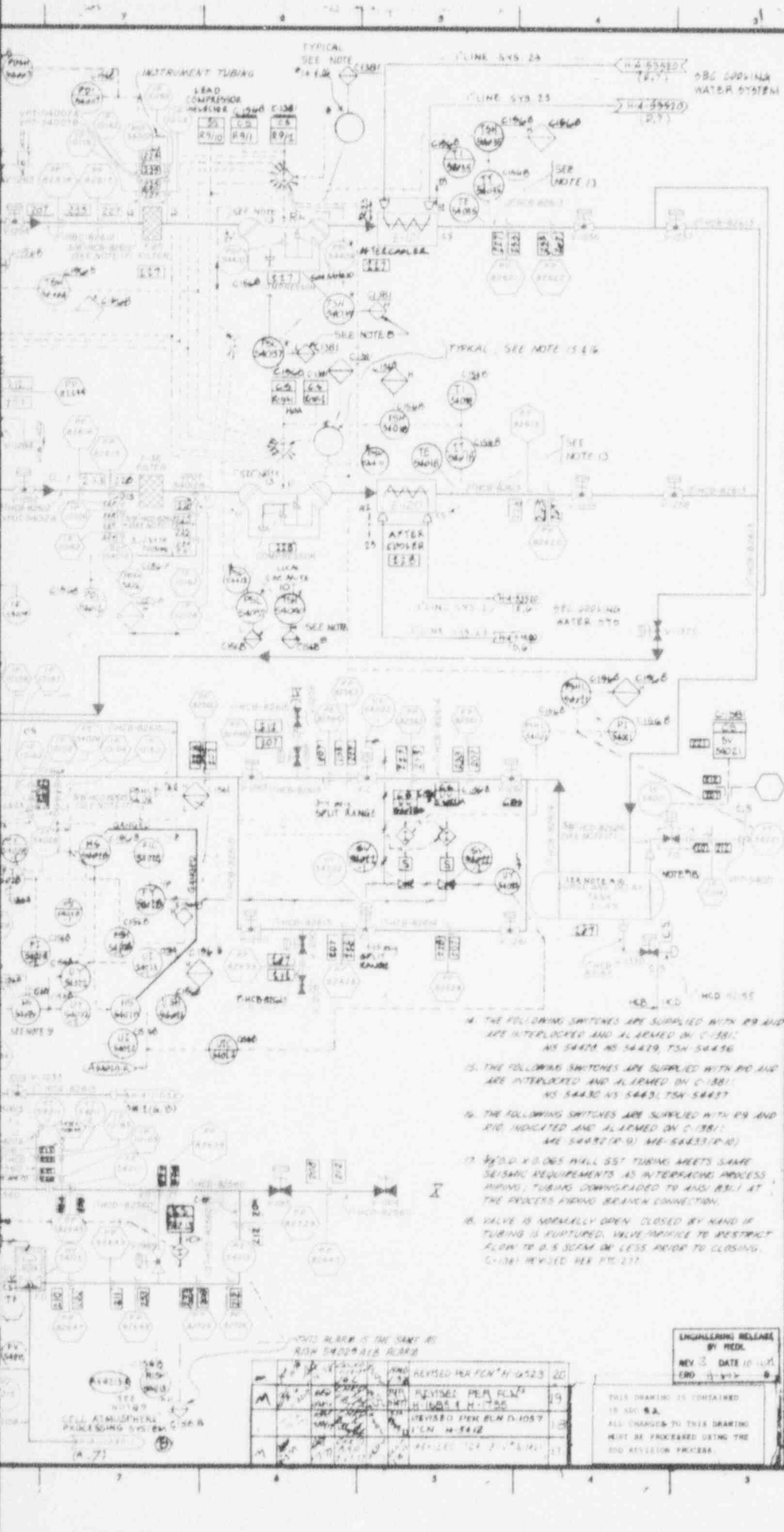

Dwg. No.	Reference Drawings
H-4-12161	LOGIC DIAGRAM, SURGE & DELAY TANK CONTROL
H-4-11043	P&ID ARGON SUPPLY & REACTOR DISTRIBUTION
H-4-11044	P&ID ARGON DISTRIBUTION PRIMARY HTS LOOP NUMBER 1
H-4-11058	P&ID HIGH PRESS ARGON DISTRIBUTION IN-CONTAINMENT
H-4-12170	LOGIC DIAGRAM, VALVES - RAPS SYS 62
H-4-53820	P&ID COOLING WATER TO CAPS & RAPS COMPRESSORS SERVICE PIPING SYS 23
H-4-11090	P&ID CELL ATMOSPHERE PROCESSING SYSTEM
H-4-11117	P&ID ARGON DISTRIBUTION PRIMARY HTS LOOP NUMBER 2
H-4-11118	P&ID ARGON DISTRIBUTION PRIMARY HTS LOOP NUMBER 3

NOTES:

1. ALL HAND VALVE NUMBERS PRECEDED BY 62.
2. ALL ALARMS ON PANEL C1568 WILL BE REFLASHED AND TRANSMITTED TO COMMON ANNUNCIATOR C136.
3. FOR SYMBOLS AND USAGE SEE LEGEND SHEETS H-4-11093, 11094, 11095, 11096, 11098 AND 11099.
6. ALL TEE CONNECTIONS TO THE RAPS HEADER ARE NOT SHOWN IN THIS DRAWING.
7. THIS DRAWING INCLUDES EQUIPMENT IDENTIFIED AS PART OF THE PLANT PROTECTION SYSTEM (P.P.S.) BEFORE MODIFYING OR MAINTAINING THE EQUIPMENT SO IDENTIFIED, THE APPROVAL OF THE COGNIZANT PERSONNEL OF THE P.P.S. MUST BE OBTAINED. THE EQUIPMENT INCLUDED IN THE P.P.S. IS SPECIFICALLY IDENTIFIED ON THE DRAWING AS FOLLOWS: HV-54002 AND HV-54003.
8. TO BE PROVIDED BY SUPPLIER IS DENOTED BY *.
9. THE RATE METER INCLUDES A SIGNAL CONDITIONER DISPLAY METER, TRANSMITTER, INTERNAL POWER SUPPLY, TRIP DEVICES, AND ALARM LIGHTS. THE RATE METER WITH THE DETECTOR ASSEMBLIES ARE PURCHASED UNDER SPEC. HWS-1238.
10. OVER-PRESSURE PROTECTION FOR T-49 AND T-111 IS PROVIDED BY THE TWO (2) HYDRAULIC RELIEF VALVES FOR EACH COMPRESSOR R-9 AND R-10. RELIEF VALVES ARE INTERNAL WITH COMPRESSOR *.
11. THE DEWARS WILL BE EQUIPPED WITH FILL AND RELIEF VALVES AND PRESSURIZATION MEANS BY THE SUPPLIER (HWS-1173).
12. THE FFTF PROJECT REQUIREMENTS FOR T-49, T-51 AND T-111 ARE NOW ASME SECTION III CLASS 2, BUT AT THE TIME OF THE SYSTEM CODE RECLASSIFICATION (ERO B-2525, DATED 11-15-73) THESE COMPONENTS HAD ALREADY BEEN PROCURED TO THE REQUIREMENTS OF ASME SECTION III, CLASS 1. FOR R-9/10, ASME III, CLASS 3 WITH CLASS 1 [illegible]
13. CODE CLASSIFICATION OF R-9 AND R-10: R-9 AND R-10 PROCESS BOUNDARY IS FURNISHED AND STAMPED IN ACCORDANCE WITH SECTION III CLASS 3 OF THE ASME CODE.
14. THE FOLLOWING SWITCHES ARE SUPPLIED WITH R9 AND ARE INTERLOCKED AND ALARMED ON C-1381: HS 54428, HS 54429, TSH 54436
15. THE FOLLOWING SWITCHES ARE SUPPLIED WITH R10 AND ARE INTERLOCKED AND ALARMED ON C-1381: HS 54430, HS 54431, TSH 54437
16. THE FOLLOWING SWITCHES ARE SUPPLIED WITH R9 AND R10, INDICATED AND ALARMED ON C-1381: ME 54432 (R-9), ME-54433 (R-10)
17. 1/2" O.D. x 0.065 WALL SST TUBING MEETS SAME SEISMIC REQUIREMENTS AS INTERFACING PROCESS PIPING; TUBING DOWNGRADED TO ANSI B31.1 AT THE PROCESS PIPING BRANCH CONNECTION.
18. VALVE IS NORMALLY OPEN. CLOSED BY HAND IF TUBING IS RUPTURED. VALVE/ORIFICE TO RESTRICT FLOW TO 0.5 SCFM OR LESS PRIOR TO CLOSING. C-1381 REVISED PER FTC-237

REVISIONS

Rev.	Description
16	REVISED/FCN # 2295, N8690
15	REVISED PER FCN H-0844
14	REVISED PER FCN 5882/5538
13	REVISED PER FCN # 4631, 4718 RELEASED PER ERO
12	REVISED & RELEASED ERO B-8860
11	RELEASED INCORPORATED ECN 1300
10	ERO B-4920 & B-5837 (M)
9	REVISED & RELEASED (M)
8	RELEASED HEDL ERO
4	RELEASED FOR [illegible] ERO BA 0094 5-10-74
	RELEASED, HEDL ERO B-2617, 11-74
	RELEASED HEDL ERO B-2620, 11-15-73
	RELEASED HEDL ERO B-3204
	RELEASED PER ERO B-GAL
2	REV. PER FCN H-0870
	REVISED FOR APPROVAL
20	REVISED PER FCN H-6523
19	REVISED PER FCN H-1685 & H-1756
18	REVISED PER ECN D-1057 ECN H-5612
17	REVISED PER [illegible]

DRAWING STATUS: 21

ENGINEERING RELEASE BY HEDL
REV. 3 DATE 10-[illegible]

THIS DRAWING IS CONTAINED IN SDC 9.A.
ALL CHANGES TO THIS DRAWING MUST BE PROCESSED USING THE EDG REVISION PROCESS.

U. S. ATOMIC ENERGY COMMISSION
RICHLAND OPERATIONS OFFICE
Hanford Engineering Development Laboratory
Westinghouse Hanford Company

BECHTEL
SAN FRANCISCO

PIPING & INSTRUMENT DIAGRAM
RADIOACTIVE ARGON PROCESSING SYSTEM SYS. 62
FAST FLUX TEST FACILITY

H-4-11056