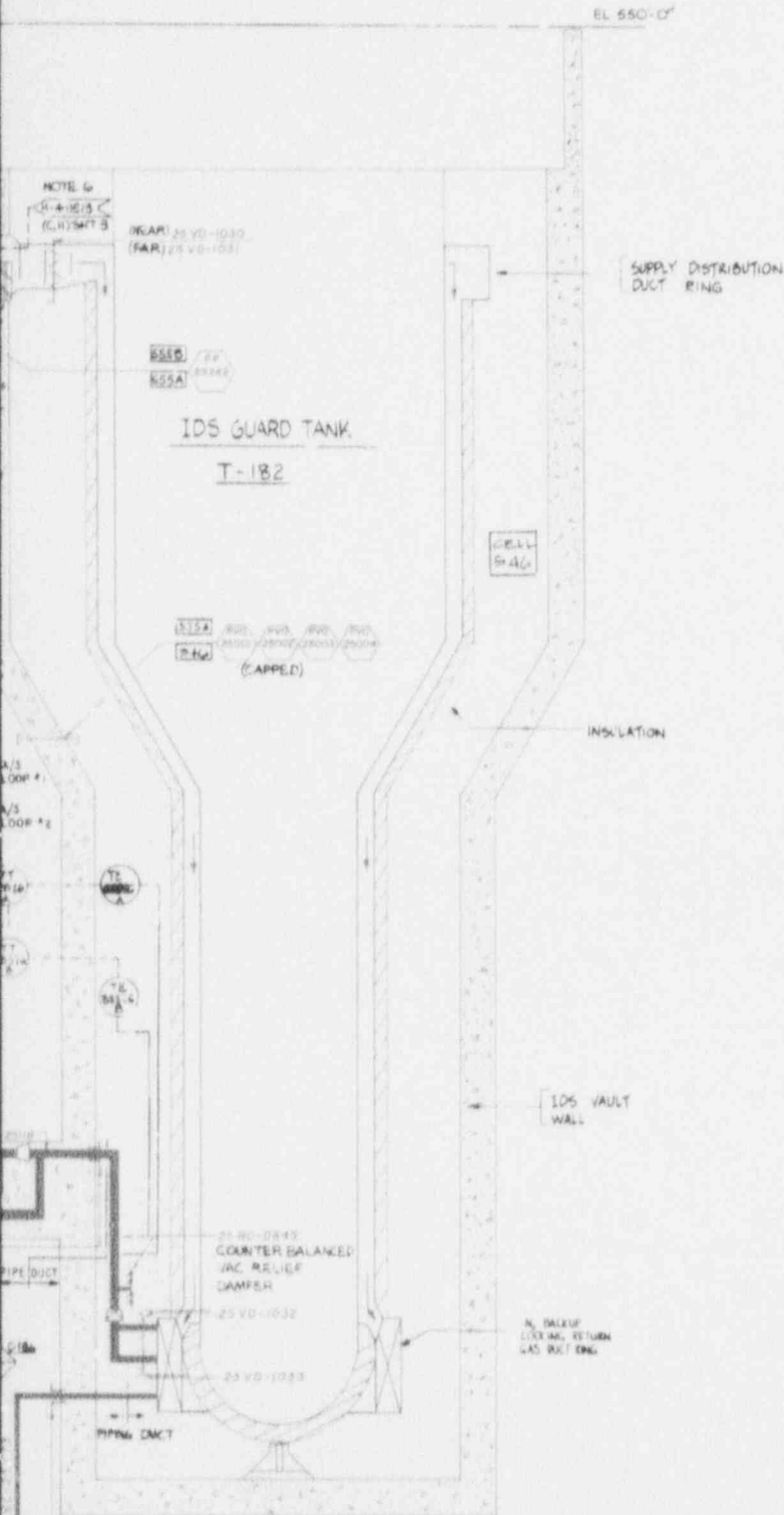


H-4-11909		FD-105 VESSEL N ₂ BACKUP GAS COOLING SYS
H-4-11909		SYSTEM 28



NOTES:

1. SEE DNGS H-4-11093 THRU H-4-11096 AND H-4-11099 FOR LEGEND.
2. THERMAL PIPE STRESS ANALYSIS IN ACCORDANCE WITH ASME SECTION III, CLASS 3, IS REQUIRED FOR LINES 24-HBC-25118, 26-HBC-25119, AND 28-HBC-25119.
3. THE INSTRUMENT AIR SUPPLY FOR PNEUMATIC INSTRUMENTS SHOWN ON THIS DRAWING, SEE FIELD H-4-23111.
4. ALL ALARMS SHOWN FOR EACH CONTROL PANEL ARE RETRANSMITTED TO A COMMON SINGLE ANNUNCIATOR WINDOW ON PANEL C136. ANY INCOMING ALARM SUCCEEDING THE INITIAL ALARM ON THE CONTROL PANEL WILL REFRESH (REACTIVATE) THE PANEL C136 WINDOW.
5. EMERGENCY COOLING OF IDS VESSEL IS ACCOMPLISHED WITHOUT OPERATION OF THE FAN SYSTEM. ONE AIR INLET VALVE TO THE LOWER DUCT RING AND ONE AIR OUTLET VALVE FROM THE UPPER DUCT RING ARE OPENED TO CAUSE RECIRCULATION OF AIR BY NATURAL CONVECTION. THESE AIR VALVES F.O. ON PNEUMATIC FAILURE AND F.A.I. ON ELECTRIC FAILURE.
6. FIFTY CFM OF N₂ GAS FROM THE CELL 546 COOLING SYSTEM H-4-10518 (G.1) SHUT 3, ULTIMATELY BLEEDS OUT OF THE COOLING ANNULUS AT THE INSULATION SEAL BETWEEN THE GUARD TANK AND THE SUPPLY DISTRIBUTION RING.
7. PROVIDE ADJUSTABLE T.D. (0.5 TO 2 MIN) IN THE CONTROL OPERATOR FOR VALVES HV-BBBI-1 & HV-BBBI-2 SO THAT STARTING OF FAN B-237H WILL CAUSE GRADUAL OPENING OF HV-BBBI-1 AND GRADUAL CLOSING OF HV-BBBI-2.

REV. BLOCK CONT 4-5

REV.	NO.	DATE	DESCRIPTION	REV. NO.
1	1	11/1/70	REVISED PER ECN H-4-0564	12
2	2	11/1/70	REVISED PER ECN H-4-0564	11
3	3	11/1/70	REVISED PER ECN H-4-0564	10
4	4	11/1/70	REVISED PER ECN H-4-0564	9
5	5	11/1/70	REVISED PER ECN H-4-0564	8
6	6	11/1/70	REVISED PER ECN H-4-0564	7
7	7	11/1/70	REVISED PER ECN H-4-0564	6
8	8	11/1/70	REVISED PER ECN H-4-0564	5
9	9	11/1/70	REVISED PER ECN H-4-0564	4
10	10	11/1/70	REVISED PER ECN H-4-0564	3
11	11	11/1/70	REVISED PER ECN H-4-0564	2
12	12	11/1/70	REVISED PER ECN H-4-0564	1

ENGINEERING RELEASE BY HEDL
REV. 1 DATE 12/2/74
FIG. 0-2554-B

THIS DRAWING IS CONTAINED IN 500-10
ALL CHANGES TO THIS DRAWING MUST BE PROCESSED USING THE 500-REVISION PROCESS.

U. S. ATOMIC ENERGY COMMISSION HIGH-TEMPERATURE RESEARCH AND DEVELOPMENT OFFICE Health Engineering Development Laboratory	
PROJECT NO. H-4-11909	JOB NO. 5853
PIPING INSTRUMENT DIAGRAM IDS VESSEL N ₂ BACKUP GAS COOLING SYSTEM	
SYS 28	
FAST FLUX TEST FACILITY	
405	7004
H-4-11909	11