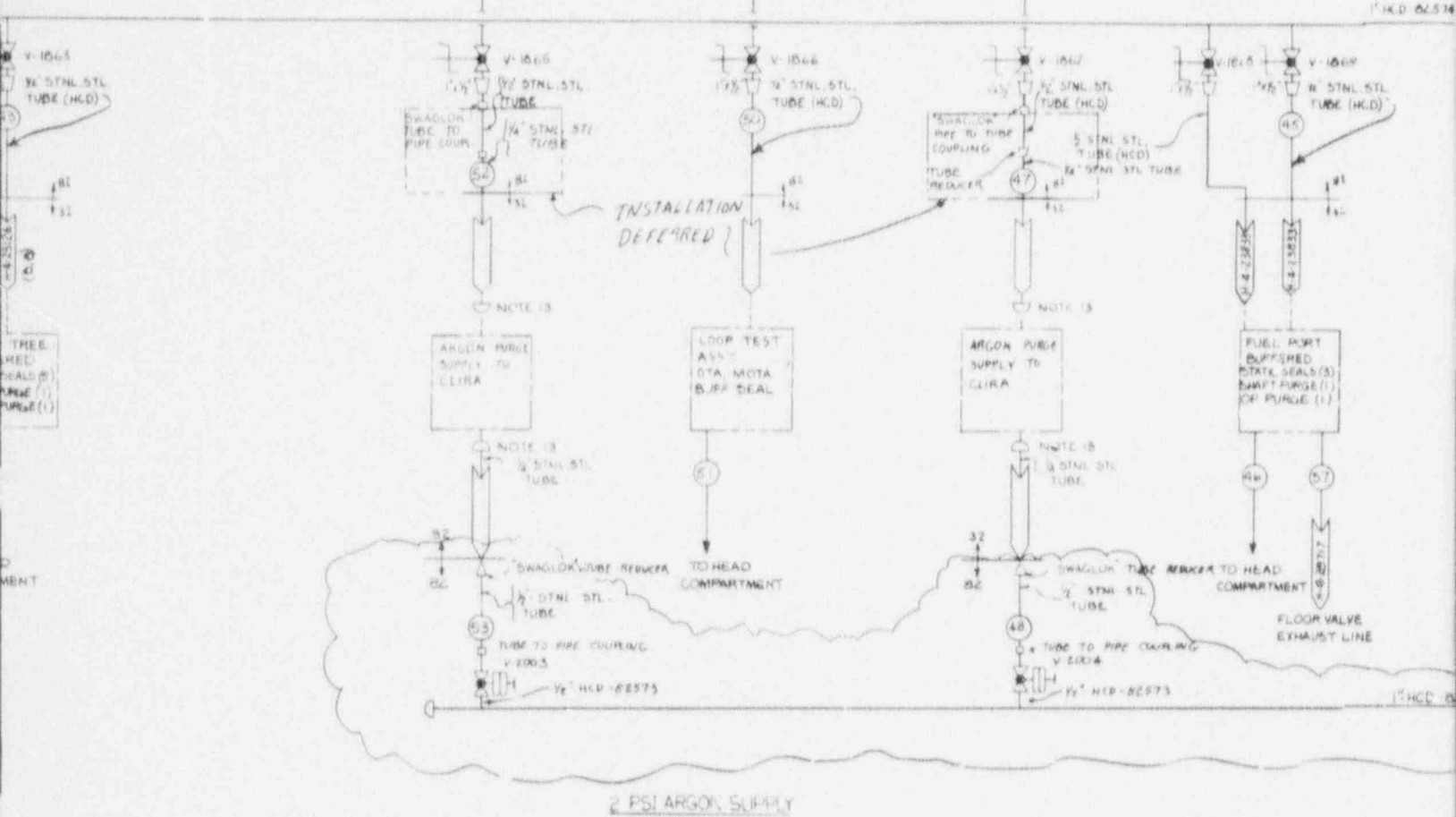


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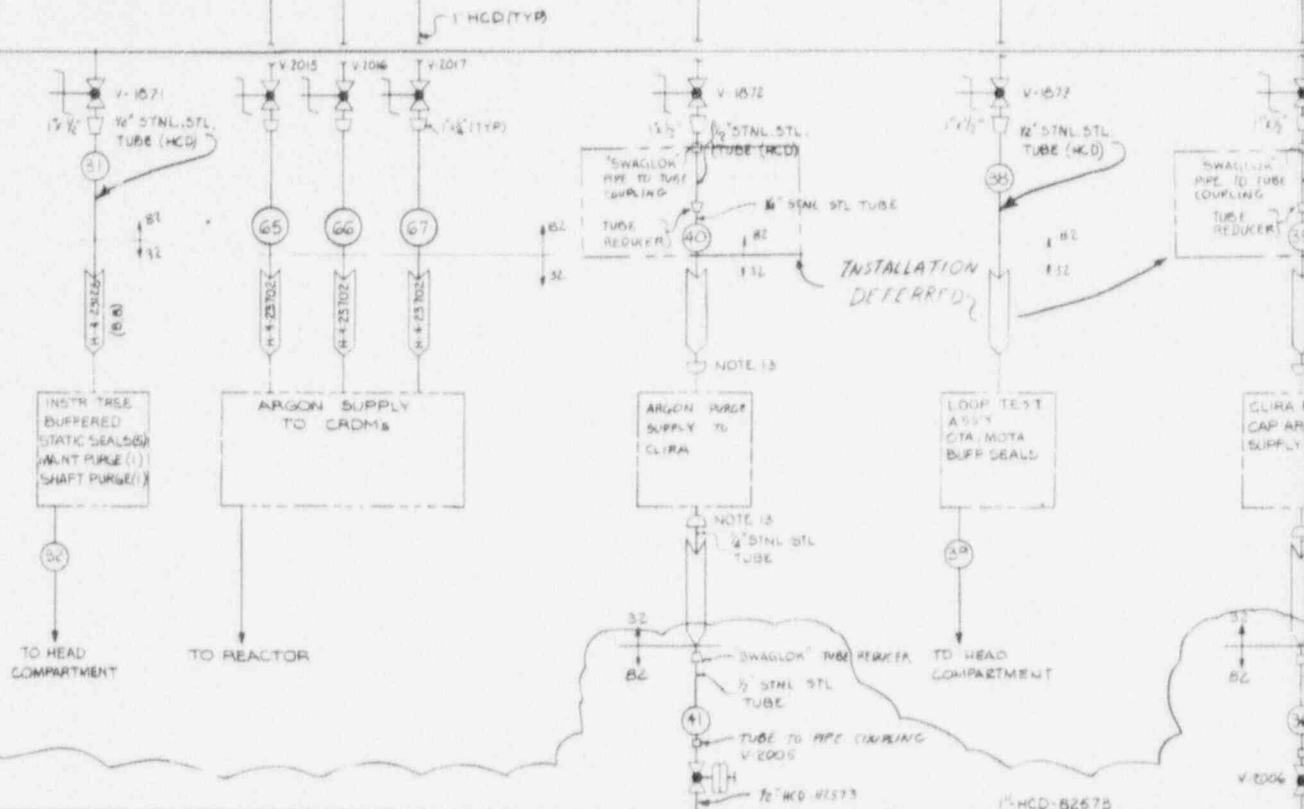
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U. S. ATOMIC ENERGY COMMISSION	
RICHLAND OPERATIONS OFFICE	
Hanford Engineering Development Laboratory	
Bechtel National Company	
BECHTEL	
SAN FRANCISCO	
PIPING & INSTRUMENT DIAGRAM	
ARGON SEALS/PURGE GAS DISTRIBUTION	
HEAD COMPARTMENT	
FAST FLUX TEST FACILITY	
PLAN NO.	405
REVISION NO.	1
DATE	11/11
BY	H-4-52522

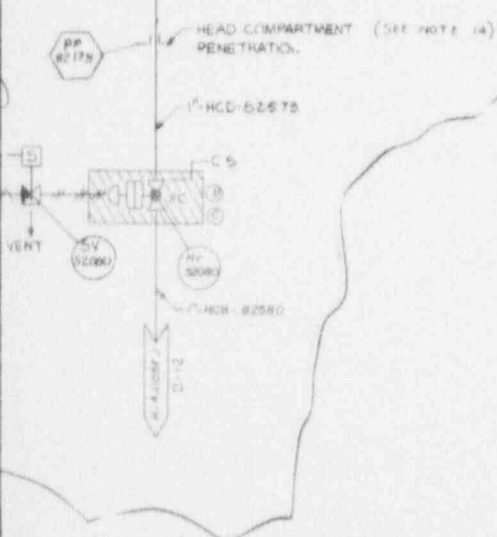
(ABOVE MAINTENANCE DECK)


(BELOW MAINTENANCE DECK)

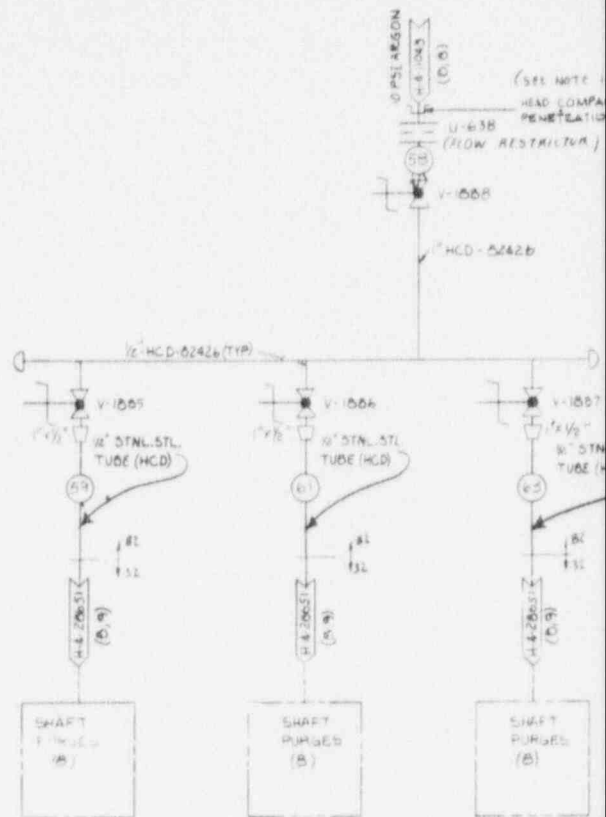
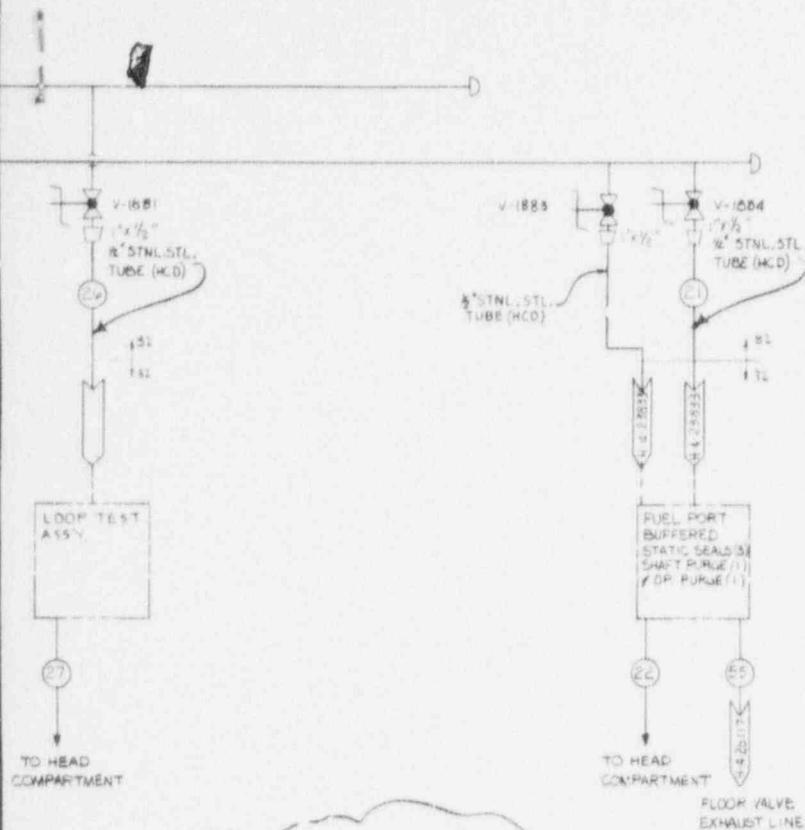


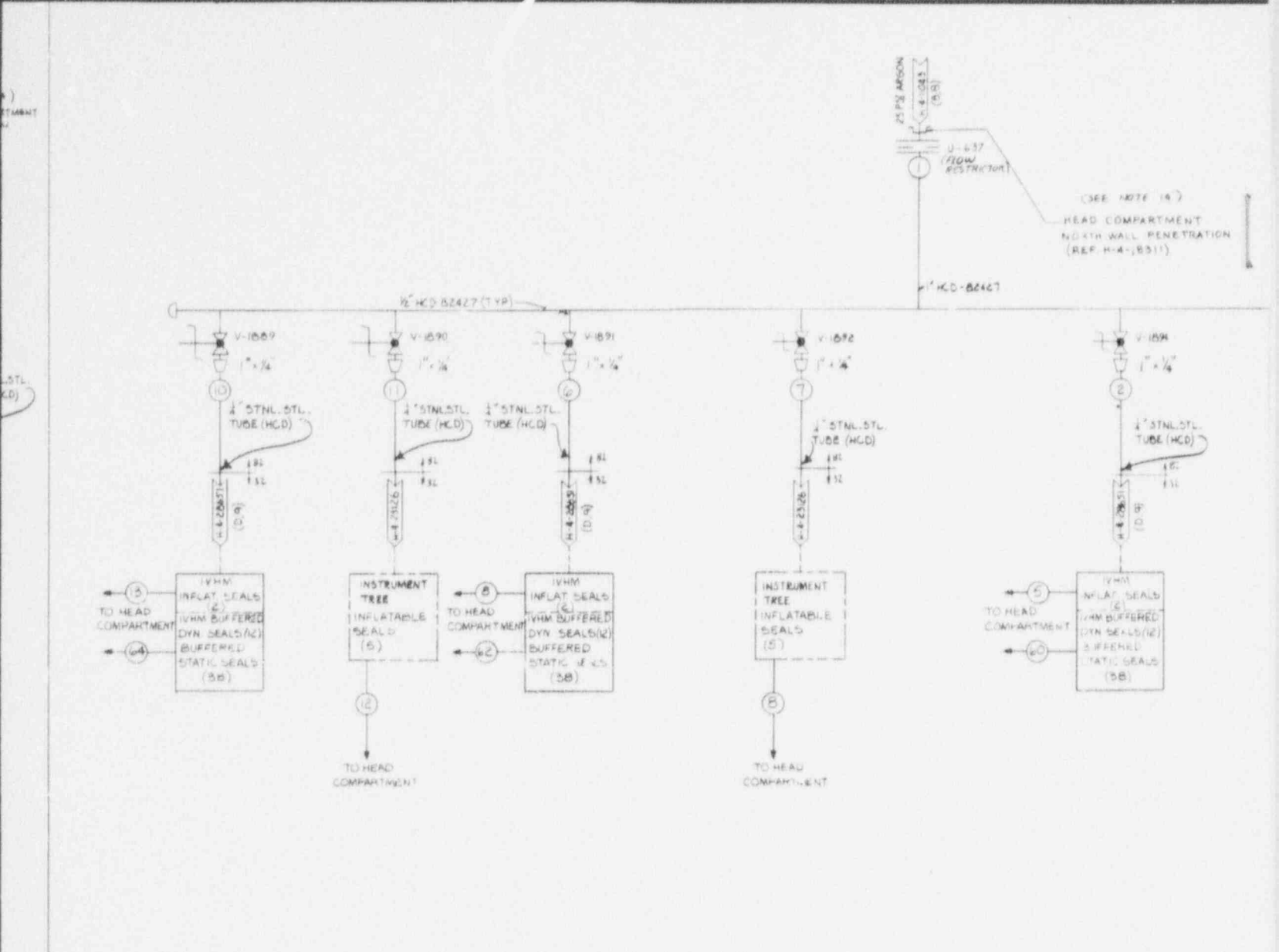
2 PSI ARGON SUPPLY

LOCAL



U. S. ATOMIC ENERGY COMMISSION			
RICHLAND OPERATIONS OFFICE			
Hanford Engineering Development Laboratory			
APPROPRIATE DESIGN GROUP			
	BECHETEL SAN FRANCISCO		
TRUMPEN DIAGRAM			
ARG	TRUMPEN	TRUMPEN	TRUMPEN
HA	HA	HA	HA
FAST FLUX TEST FACILITY			
DATE: 10/1/54	REVISION: 10/1/54		DESIGN: 10/1/54
BY: 10/1/54	BY: 10/1/54		BY: 10/1/54





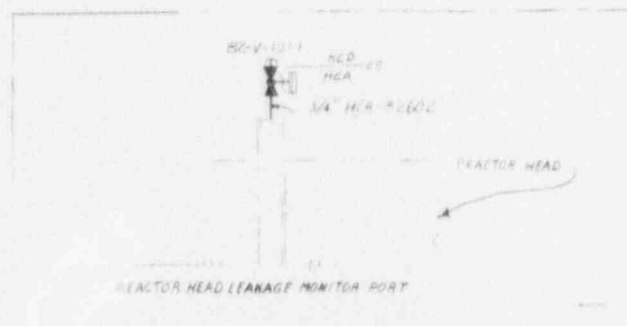
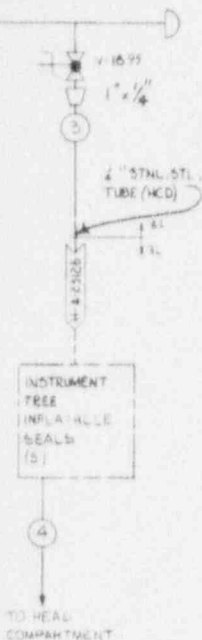
25 PSI ARGON SUPPLY

U. S. ATOMIC ENERGY COMMISSION	
RICHLAND OPERATIONS OFFICE	
Hanford Engineering Development Laboratory	
Westinghouse Hanford Company	
BECHTEL	DATE
SAN FRANCISCO	7-5-64
PIPING & INSTRUMENT DIAGRAM	
ARGON FLOWLINE - A-111	
HEAD UNIT	
FAST FLUX TEST FACILITY	
PLAN NO. 4-15	REV. NO. 7004
REV. NO. H-1-E3522	REV. NO. 111

THIS DRAWING IS CONTAINED
IN SDD B2
ALL CHANGES TO THIS DRAWING
MUST BE PROCESSED USING THE
SDD REVISION PROCESS.

LINE NO	FLOW (SCFM)			INTERMITTENT TOTAL VOLUME (SCF)	NOTES	LINE NO	FLOW (SCFM)			INTERMITTENT TOTAL VOLUME (SCF)	NOTES
	REACTOR OPERATION	REFUELING PREPARATION	REFUELING OPERATION				REACTOR OPERATION	REFUELING PREPARATION	REFUELING OPERATION		
1	0.001	0.5	0	9.0	(1, 2, 3)	33	0.0122	2.5122 (7)	0 (B.6)	50	(3)
2	.0003		0.5 (7)	0.5		34	0.0032	0.0032	0 (B.6)	0	
3		0.5 (7)	0.0003	2.5		35	0.0034	0	0		
4		0.5 (7)	0.0003	2.5		36	0.0034	0	0		
5	.0003		0.5 (7)	0.5		37					
6	.0003		0.5 (7)	0.5		38	0.0032	0.0032			
7		0.5 (7)	0.0003	2.5		39	0.0001	0.0001			
8		0.5 (7)	0.0003	2.5		40	0.0034	0	0		
9	.0003		0.5 (7)	0.5		41	0.0034	0	0		
10	.0003		0.5 (7)	0.5		42					
11		0.5 (7)	0.0003	2.5		43	0.1604	2.5604 (7)	0.1604	50.0	(3)
12		0.5 (7)	0.0003	2.5		44	0.0004	0.0004	0.0004	50.0	
13	.0003		0.5 (7)	0.5		45	0.0122	2.5122 (7)	0 (B.6)	50	(3)
14						46	0.0002	0.0002	0 (B.6)	0	
15						47	0.0034	0	0		
16						48	0.0034	0	0		
17						49					
18	0.55	2.5604	0.4	16.5 TO 46.5*	(1, 2, 4, 6)	50	0.0002	0.0002			
19	0.1604	2.5604 (7)	0.1604	5.0	(3)	51	0.0001	0.0001			
20	0.0004	0.0004	0.0004	5.0		52	0.0034	0	0		
21	0.0122	2.5122 (7)	0 (B.6)	50	(3)	53	0.0034	0	0		
22	0.0002	0.0002	0 (B.6)	0		54					
23						55	0	2.5	0	50	
24						56	0	2.5	0	50	
25						57	0	2.5	0	50	
26						58	2.7	3.2	3.2		(1, 3, 5, 16)
27						59	0.59	1.59 (7.6)	1.59 (7.6)		(3)
28						60	0.0003	0.0003	0.0003		
29						61	0.59	1.59 (7.6)	1.59 (7.6)		(3)
30						62	0.0003	0.0003	0.0003		
31	0.1604	2.5604 (7)	0.1604	5.0	(3)	63	0.59	1.59 (7.6)	1.59 (7.6)		(3)
32	0.0004	0.0004	0.0004	5.0		64	0.0003	0.0003	0.0003		
						65	0.003	0.003	0.003		(17)
						66	0.003	0.003	0.003		(17)
						67	0.003	0.003	0.003		(17)

* DEPENDENT ON NUMBER OF CLRA'S BEING CHANGED OUT



ENGINEERING RELEASE
BY NED
REV DATE 1/1/74
ENG 0/1/1

1. TEMPERATURE 100°F (MAX).
 2. FLOW - MAXIMUM FLOW 10 SCFM.
 3. GAS - HYDROGEN CONTENT OF PURGE GAS TO MAINTAIN THE INLET FUEL TRANSFER PORT & INSTRUMENT TRIM CONTROLLED TO MINIMIZE SODIUM FROST BUILDUP IN JULI.
 4. FLOW - MAXIMUM FLOW 3.2 SCFM - TOTAL FLOW TO REACTOR 0.34 SCFM.
 5. FLOW - MAXIMUM FLOW 3.8 SCFM - TOTAL FLOW TO REACTOR 5 SCFM @ FULL POWER & 3.49 @ REFUELING.
 6. NOT IN REFUELING OPERATION RETAIN NORMAL FLOW IN COLUMN 1.
 7. INTERMITTENT, ONE UNIT AT A TIME.
 8. FLOW - TO ACCOMMODATE TWO UNITS AT ONE TIME.
 9. USED
 10. FLOOR VALVE SUPPLY REQUIREMENTS FOR REFUELING OPERATIONS EXHAUSTED TO FLOOR VALVE (500-61)
 11. SYMBOL USAGE. SEE LEGEND SHEETS: 104-109B, 104-109C, 109A, 109B & 109C.
 12. MANUAL VALVE NUMBERS ARE PREFIXED BY (M).
 13. VICE LINES ROUTED TO CENTER ISLAND POSITION BUT CANNOT BE USED INITIALLY FOR CLRA 1 & 2.
 14. BE CAPED WITH "SAFETY" COMPRESSION FITTING.
 15. TUBE LAYOUT INSIDE HEAD COMPRESSION FITTING.
 16. SYS 32 RESPONSIBILITY.
 17. FLOW RESTRICTED TO MAX. 3 SCFM.
 18. FLOW RESTRICTED TO MAX. 5 SCFM.
 19. INTERMITTENT FLOW LIMITED TO 0.015 SCFM MAXIMUM.

[illegible]