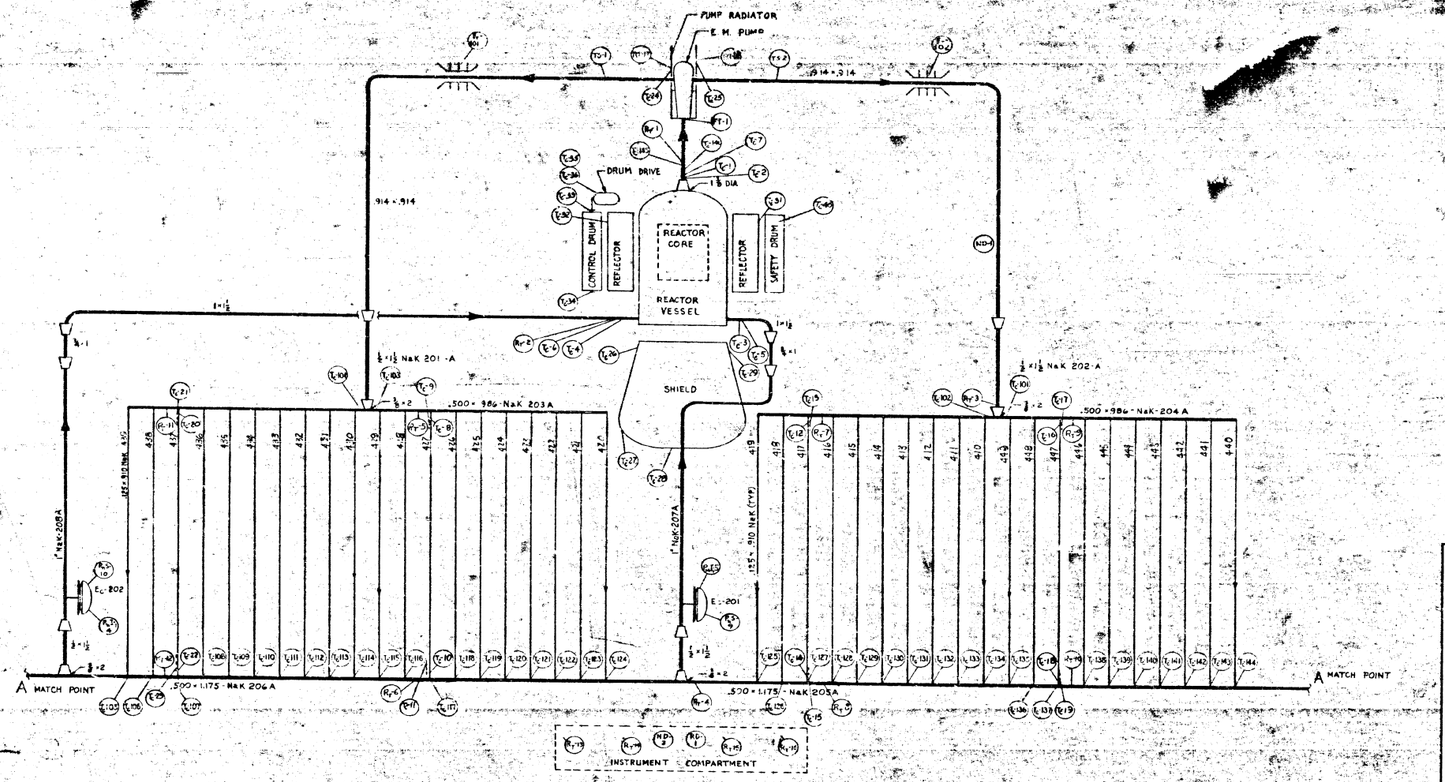
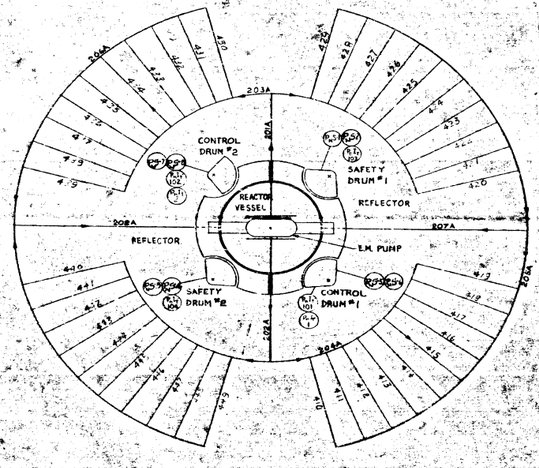
REVISIONS			
ITEM	DESCRIPTION	DATE	APPROVED
4	GENERAL REVISION, ADD RTD'S & TC'S NUMBER RADIATOR TUBES	9-24-62	CWM





PLAN VIEW SHOWING LOCATION & NUMBERING SYSTEM.

LEGEND

LINES

- LINE SIZE, FLUID SYMBOL, LINE NO, LINE CLASS — 2" - CW 433 - A
- PRINCIPAL FLOW
- AUXILIARY FLOWS
- INSTRUMENT AIR LINE
- INSTRUMENT PRIMARY LINE
- INSTRUMENT CAPILLARY TUBING
- INSTRUMENT ELECTRIC AND THERMOCOUPLE LEADS
- INSTRUMENT RESISTANCE LEADS
- DUPLICATED PIPING (SEE REFERENCE DRAWING)
- GUARDED PIPING

VALVES

- V112-15 — VALVE NO.
- GATE
- GLOBE
- CHECK
- PLUG
- BUTTERFLY
- ANGLE
- THREE-WAY
- BELLOWS SEAL
- Y PATTERN
- NEEDLE (GLOBE)
- NEEDLE (ANGLE)
- LIQUID COOLED FREEZE SEAL
- GAS COOLED FREEZE SEAL
- NON-RETURN
- OFFSET GLOBE
- MANUAL REMOTE OPERATED

GENERAL

- AREA LIMIT
- MATCH LINE
- SPEC "X" / SPEC "Y" — SPECIFICATION CHANGES
- ITEM SUPPLIED WITH EQUIPMENT

ITEM	SERIES NUMBER
REACTOR	100
HEAT TRANSFER	200
	300
POWER CONVERSION	400
	500
SHIELD	600
STRUCT. RE	700
AUXILIARY SYSTEMS	800

INSTRUMENTATION

NOZZLE, ORIFICE — FLOW ELEMENTS (TYPICAL); IN THE LINE FLOW IND.; RESTRICTING ORIFICE; BOARD MOUNTED INSTR.; LOCAL MOUNTED INSTR.; THERMAL ELEMENTS — THERMOWELL TYPE (TYPICAL); LOCAL MOUNTED TRANSMITTER; BOARD MOUNTED TRANSMITTER

LETTER	FIRST LETTER	MEANING IF USED AS: MODIFIED LETTER	THIRD LETTER
A	ANALYSIS	ALARM	
B		BURNING	
C	CONDUCTIVITY	CONTROLLER	CONTROLLER
C_p		COMPUTER	COMPUTER
C_r		COUNT-RATE	
A_c	ACCELEROMETER		
D	DENSITY	DETECTOR	
D_e	DIFFERENCE (DIFFERENTIAL)		DIFFERENTIAL
E	ERROR	ELEMENT	ELEMENT
F	FLOW		
F_R	FLOW TO PWR COMP		
F_T	FLOW TOTALIZER		
G	GRAVITY	GLASS	
H	HAND		HIGH
I	CURRENT	INDICATOR	INDICATOR
L	LEVEL	LINEAR	LOW
Ld	LOG	LOG	
M	MOISTURE	MONITOR	MOTOR
P	PRESSURE	PNEUMATIC	
Q	QUANTITY	ORIFICE	

LETTER	FIRST LETTER	MEANING IF USED AS: SECOND LETTER	THIRD LETTER
R	PRESSURE	POINT	
R_d	PRESS DIFF		
R_x	POSITION		
R_{cn}	RADIATION CONCENTRATION		
R	RADIOACTIVITY	RECORDER	RECORDER
R_h	REMOTE THERM	RATE	
T_h	THERMISTOR		
S	SOLENOID	SAFETY OR SWITCH	SWITCH
S_c	SCALER	SCALER	
S_n	SCANNER	SCANNER	
T	TEMPERATURE	TRANSMITTER	
T_d	THERMAL DIFF		
T_c	THERMOCOUPLE		
V	VISCOSITY	VALVE	VALVE
V_b	VIBRATION		
W	WEIGHT	WELL	
W_h	WATT		
X		TEST JK	GROUND
Y		RELAY	RELAY

(1) WHEN REQUIRED, THE FOLLOWING MAY BE USED OPTIONALLY AS A FIRST LETTER FOR PROCESS VARIABLES: D_e DELTA, DENOTES DIFFERENTIAL; R_d DENOTES DIFFERENTIAL; T_d DENOTES DIFFERENTIAL; R_{cn} DENOTES RADIATION CONCENTRATION.

(2) DELTA, DENOTES MAY DEFINING CHEMICAL SYMBOLS SUCH AS O_2, C_2, ETC. MAY BE USED FOR THESE MEASUREMENTS.

HALF SIZE PRINT

1. FOR ELECTRICAL SIGNAL CONDITIONING INSTRUMENTATION & READOUT INSTRUMENTATION, SEE INSTRUMENTATION BLOCK DIAGRAM, # NFSI-200C2.
2. INSTRUMENTATION WITH 100 SERIES NUMBERS ADDED FOR I.F.S-1 TEST ONLY.

NOTE: UNLESS OTHERWISE SPECIFIED.

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ENVIRONMENTAL TEST BLDG #024 SANTA SUSANA
VACUUM TEST FACILITY - SHIP 0 - #51
P & I DIAGRAM - SYSTEM TEST

DRAWN	T. M. ARALA	SIZE E	303-024-P19
CHECKED			
ENGINEER	R. C. Stevenson	SCALE	SHEET NO. OF
APPROVED	E. Mack		

A NFSI-07002

E 92322

AUTHORIZED CLASSIFIER