

**KAISER**  
ENGINEERS

KAISER ENGINEERS, INC.  
P.O. BOX 201  
MOSCOW, OHIO 45150

Date: 9-5-78

Standard Test Procedure

Perform Hydrostatic/Pneumatic Test, Test No. RR-25 in accordance  
with attached Test Data Sheet and QACMI M-10.

Estimated Date of Test: 9-18-78

Test to be Conducted by: R. WELDER  
Test Superintendent

CG&C Const. Approval: \_\_\_\_\_

Wm. H. Zimmer Nuclear Power Station  
Hydrostatic/Pneumatic Test Report  
(Page 1)

Test No. PF-25

A. Test Parameters

1. System to be tested REACTOR RECIRCULATION (RR)

Cleanliness Class "B"

2. Bldg. or Location of test R BLDG.

3. Orientation and Terminal Points of test SEE ATTACHED PFD

elevation of high point 553' elevation of low point 534'

el.

4. Attached Drawing Numbers & Revision Numbers M-47-1 REV:G

5. Pipe Fabricator: KEI Other \_\_\_\_\_

6. Type Test: Hydrostatic  Pneumatic

7. Test Media FYR DUEL EHC HYDRAULIC FLUID

8. Test Plan (Select One) (USE SYSTEM HYDRAULIC UNIT FOR PRESSURE SOURCE)

Hydrostatic KEI 10-101  Pneumatic KEI 10-103

Hydrostatic KEI 10-102

9. A. Required Test Pressure 3000 P.S.I.G. (minimum at highest elev.)

1. From S&L Piping Line List

2. 1.25 times design pressure Ref. ASME Code

3. 1.5 times design pressure Ref. ANSI B31.1

4. As specified by CG&E Construction Engineer for Class 0 Systems only

Signature/Date N/A

B. Maximum pressure to which system can be pressurized 3160 PSIG  
(material or component restraint)

Wm. H. Zimmer Nuclear Power Station  
Hydrostatic/Pneumatic Test Report  
(Page 2)Test No. RR-35C. Gauge location (elevation) 530' expected static pressure reading  
10 PSIGD. Specified test pressure (9A + 9C) 2010 PSIGE. Greater of 3/4 test pressure or design pressure (ASME test only)  
3000 PSIGF. Holding test pressure (~~Specified~~) 3000 PSIG10. Test Parameters completed by Stone J. Ritter 9-5-78  
Signature/Date

Verified

John J. Ritter 9/1/78  
KEI Q.A. EngineerSpec. Breakout Review 9/1/78B. Test Prerequisites1. Valve Lineup completed by John J. Ritter 3-5-78  
Signature/Date2. Water Analysis Report available NA 10-22-78  
and acceptable. KEI-QA Signature/Date 10-22-783. Test Gauges: Note Range shall be more than 1½ times test pressure  
but  
but less than 4 times test pressure.S/N WTG-50 Range ± 5000 Psi Calib. date 10-22-78 Due date 4-22-79S/N WTG-100 Range ± 500 Psi Calib. date 1-22-79 Due date 7-27-79S/N N/A Range ± Psi Calib. date \_\_\_\_\_ Due date \_\_\_\_\_9/27/79 - RETEST - WTG-71-0-5000 9/11/79 3/11/809/27/79 - RETEST - WTG-68-0-5000 9/11/79 3/11/80

" " TS-100

" " TR-236

" " HT-1000

TESTS (1) VALUE B33.13450. NO. 1  
TIME OF TEST. WED. JUN 19 1911  
NOT INDEPENDENT

Wm. H. Zimmer Nuclear Power Station  
Hydrostatic/Pneumatic Test Report  
(Page 3)Test No. RR-25C. Test Results

1. Ambient temp. 75° Media temp. 75°
2. Time test started 10:15AM Time test pressure reached 10:25AM  
Hold time 10 min Time test completed 10:45AM  
Test Gauge Pressure Reading at test 3025 psig
3. Test Results & Remarks: No Leaks

4. Test conducted by: A. Winkler 3-5-79  
Signature/date

5. Remove test tags, remove test equipment, etc. A. Winkler 3-5-79  
Signature/date

D. Test Witnessed and Accepted By:

1. KEI Hydrotest Super.  
and/or Engineer A. Winkler 3-5-79  
Signature/date

2. Quality Assurance Representative A. Winkler 3-5-79  
Signature/date WITH EXPLANATION  
ON BACK

3. CG&E Representative/Ohio Special Insp. P. F. (C) ood 3/5/79  
Signature/date

4. Authorized Nuclear Inspector A. B. C. 3-5-79  
Signature/date

HYDROSTATIC TEST VALVE LINE UP Hydro RR-25

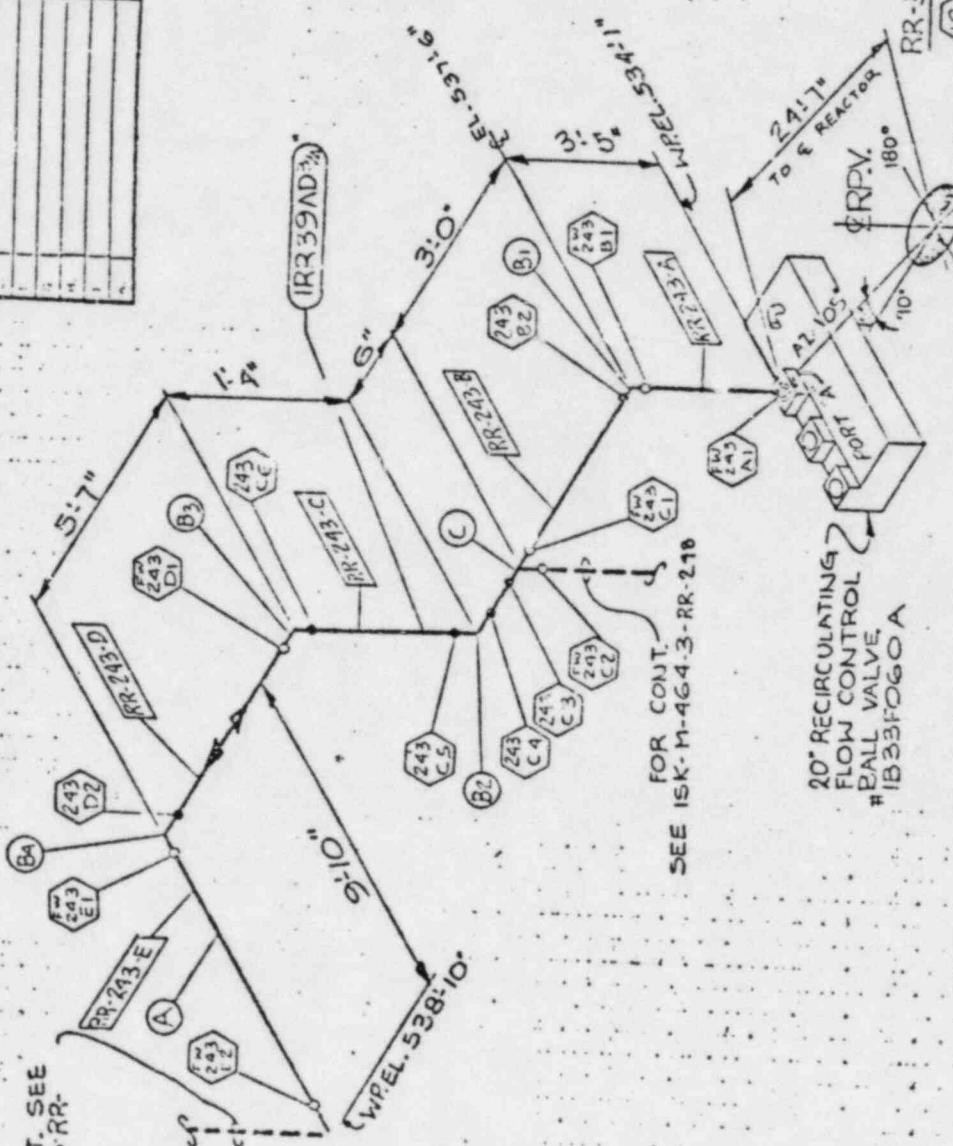
VALVE NUMBER	POSITION	COORDINATES	DRAWING NUMBER
IB33F3 ID	at 311	6-4	M-47-1
IB33F3 ID	Closed	1-4	M-47-1

Note: Protect all instruments in panels, on racks, etc. from Hydro Test Pressure.

**IMPROVEMENTS ONLY**  
NOT TO BE USED FOR  
PHYSICAL CONSTRUCTION.



FOR CONT. SEE  
15K-11-464-3-RR-



MATERIAL - TAKE OFF CLASS B ESSENTIAL		2540W2	
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
A	241 LF 3/16" SCS DTEE KIT A 241-1000	1	PC
B	25A 1/4" TEE KIT A 25A-1000	1	PC
C	1 1/4" 590° TEE KIT A 1 1/4-1000	1	PC
D			
E			
F			
G			
H			

ITEM	MEAT NUMBERS
A	
B	
C	
D	
E	
F	
G	
H	
I	
J	

The following diagram is based on the 1990 census data to illustrate the connections to large-scale price

500-1178

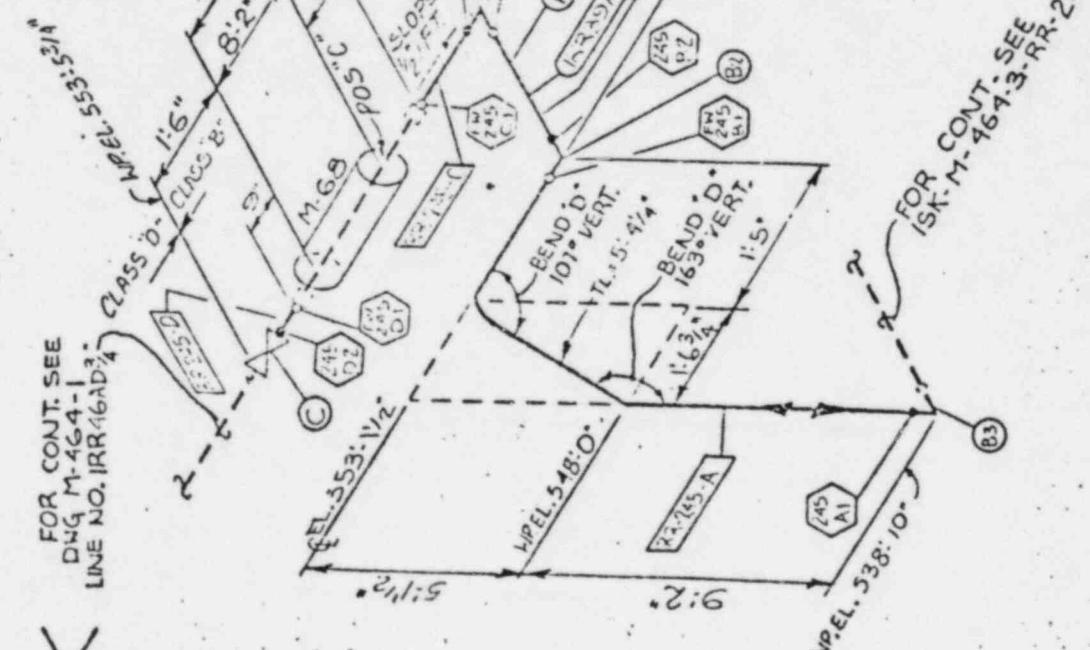
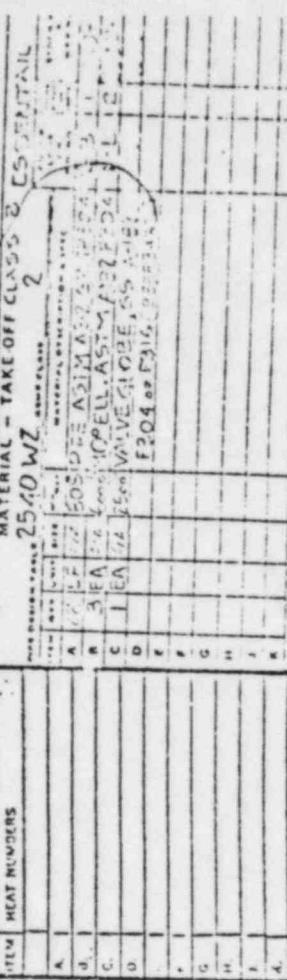
CLEAN CLASS	B	STEAM CLASS	E	INDUSTRIAL
DESIGN TEMP	185°F	DISTILLATE	250°F	250°F
REF. SPEC.	H-2256	INSULATION	K-1A	K-1A

WM. H. ZIMMER NUCLEAR POWER STATION

KAISEF

**PRINTING ONLY**  
NOT TO BE USED FOR  
PRINCIPAL CONSTRUCTION

FOR CONT. SEE  
DWG M-464-1  
LINE NO. IRR 46AD<sup>3</sup>



WIL BEINDLICH SIEGEL

CONSTRUCTION PROGRESS REPORTS 2-205

BREVES

22 - 28 - 0130

0.08 ± 0.03

BENCO C - 870 - 33

ETIQUETAS

100

Wenzel Catena

卷之三

三

Spirulina C 135

Digitized by srujanika

INSTITUTIONS

1

7/A'

三

27

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卷之三

ACTOR, INC.

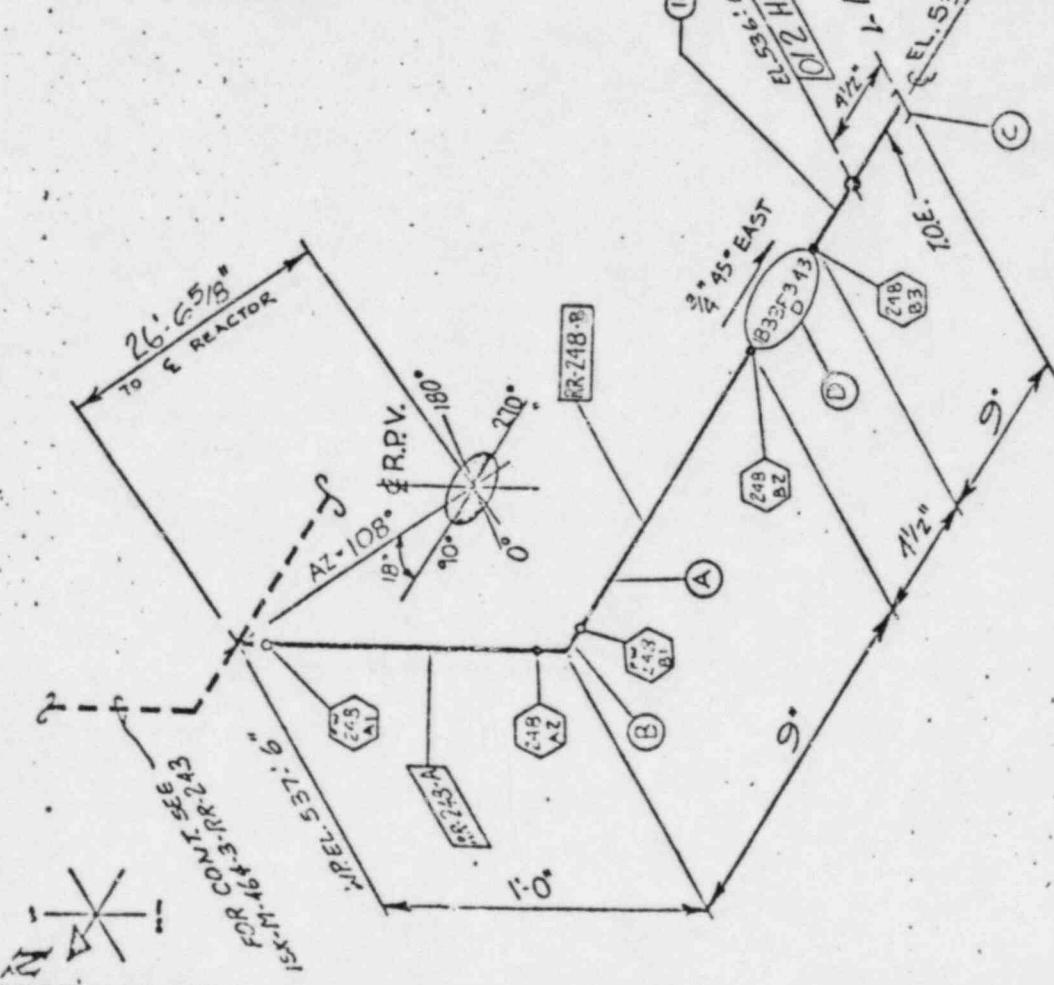
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EDUCATIONAL CONSISTENCY  
NOT TO BE USED FOR  
ONLY CHILD

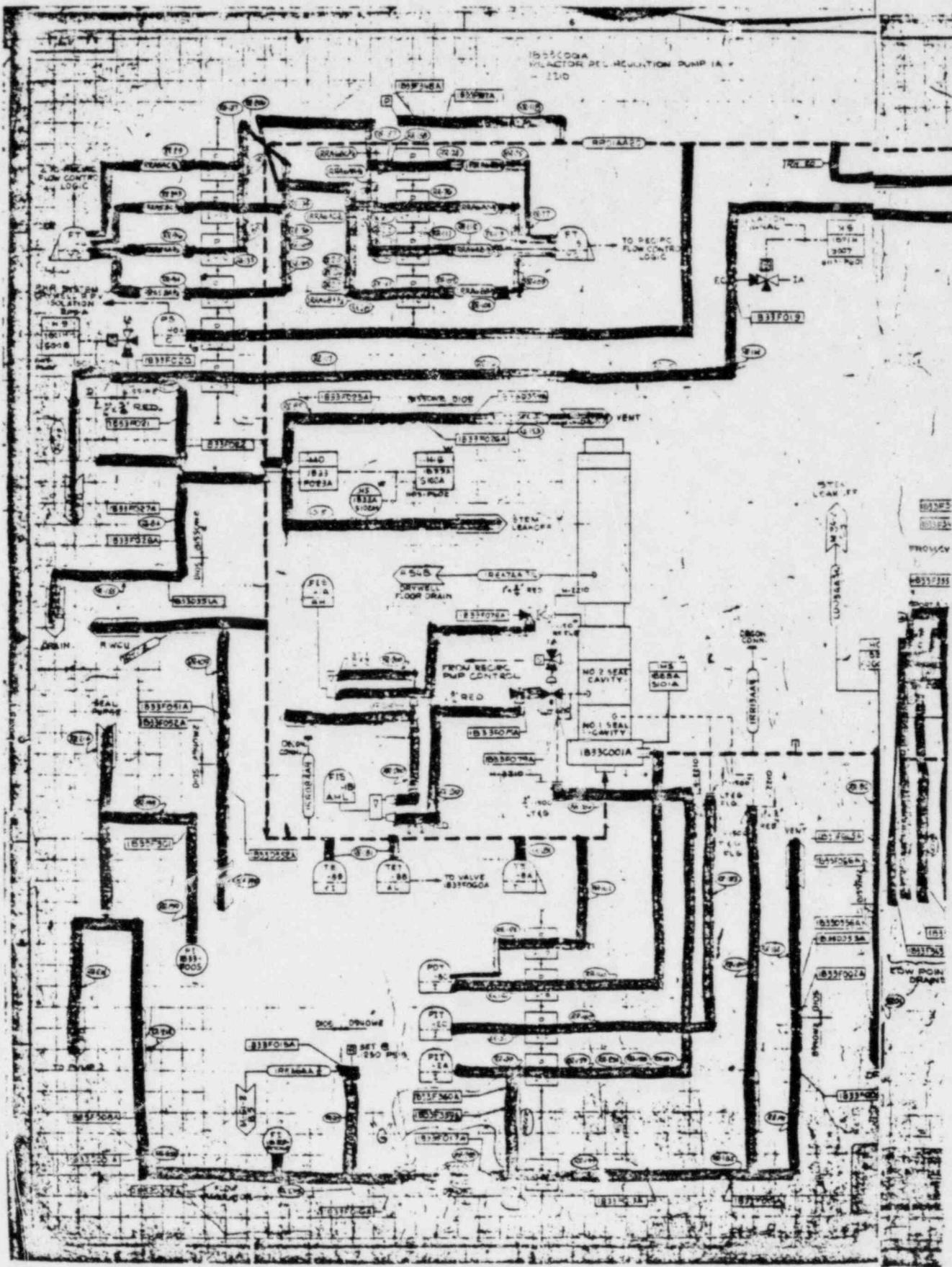


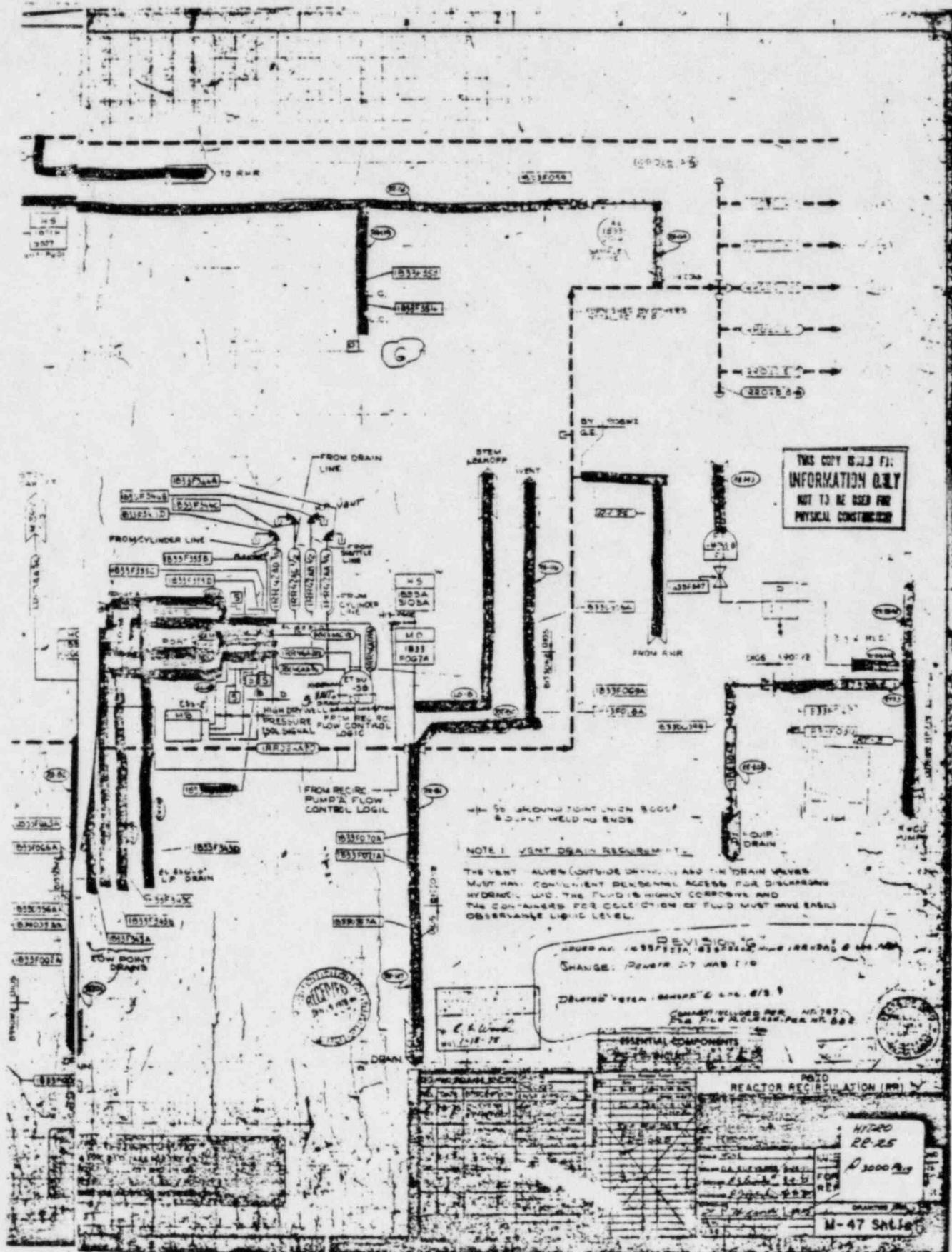
ITEM	MEAT NUMBERS
A.	
B.	
C.	
D.	
E.	
F.	
G.	
H.	
I.	
K.	

The welding data reported on this IX shall not apply to groove weld connections to large tube or pipe.

CLEAN GLASS	150°F	STAIN C. 15
DESIGN F15	DESIGN F15	DESIGN F15
H-225G	INSTANTON	INSTANTON
REF. SPEC.		

RR-3  
5





## STANDARD TEST PROCEDURE - HEAD SHEET

YES      NO

a. Dates Established

b. Package numbered

c. Test Conducted

 A. TEST PARAMETERS - SHEET 1  
Items filled in correctly

1. Systems &amp; Class

2. Location of Test

3. Elevation of Terminal PTs

4. Attached Drawings

5. Pipe Fabricator Noted

6. Type Test Matches A.3

7. Test Media

 8. Test Plan (only one) and Revision  
Number Noted 

9. a.1. As per S&amp;L

a.2. As per CG&amp;E

9b. Maximum Pressure

9c. Amount of Head Pressure

9d. Gauge Location &amp; Elev Correct

9e. Initial Test Pressure Correct

9f. Holding Test Pressure Correct

10. Test Parameters

Completed by: signed and dated correctly

Verified by: signed and dated correctly

 Check list completed and reviewed by G.G. Hall Date 7/21/82

## QUALITY CHECKLIST AFTER HYDROSTATIC TEST REPORT

	YES	NO
E. 1. Valve Line up Signed and Dated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Water Analysis Report Signed and Dated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Test Gauges Listed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ranges Acceptable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Calibration Dates Acceptable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C. 1. Temperatures Filled In	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Time Test Started: Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Time Test Reached: Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hold Time Correct	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Test Results: Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D. 1. KEI Supv./or Engineer Signed and Dated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Q.A. Representative Signed and Dated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. CG&E Representative Signed and Dated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. A.N.I.: Signed and Dated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E. Remove Test Tags, Remove Test Equipment etc. Signed and Dated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
F. Hydrostatic Test Valve Line up All Items Complete and Match P.I.D. Boundaries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
G. PSK or ISKs Marked with Boundaries and Valves Match Valve List	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Check list completed and reviewed by

A. ChaffDate 1/21/80