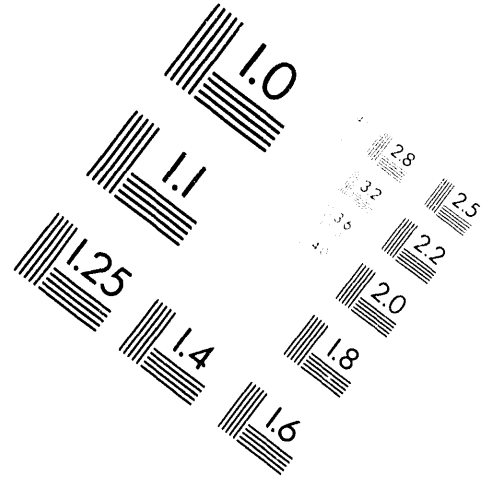
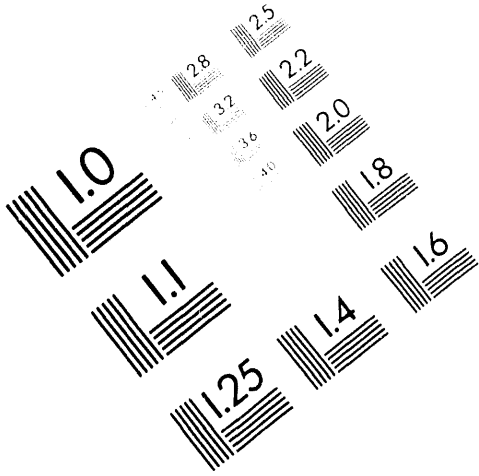




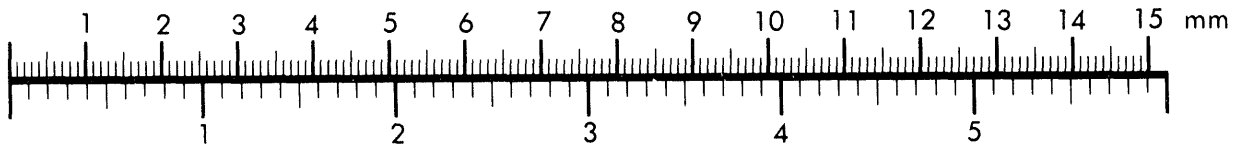
AIM

Association for Information and Image Management

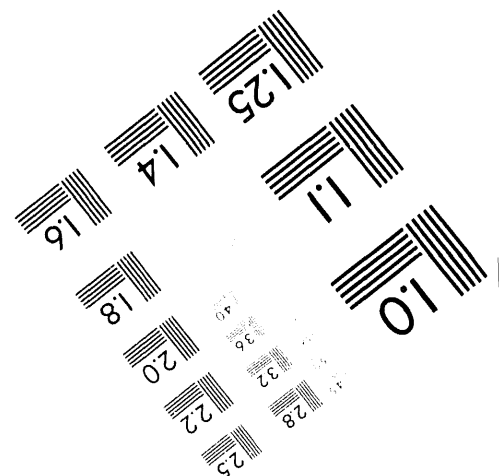
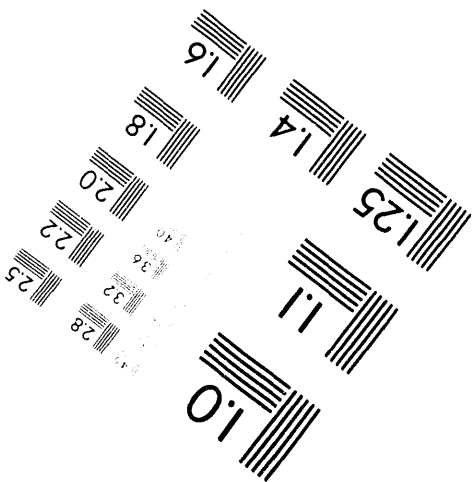
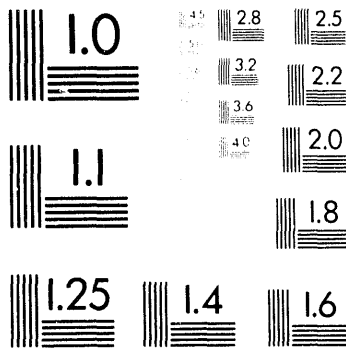
1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301-587-8202



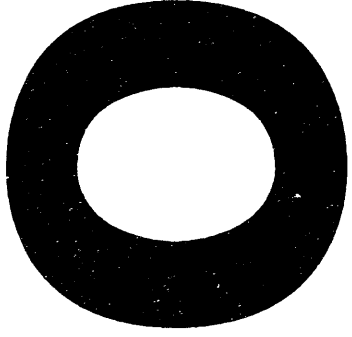
Centimeter



Inches



MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.



[REDACTED]

DECLASSIFIED

DOCUMENT NO.

IN-69101

SERIES AND COPY NO.

[REDACTED]

5

DATE - 5

GENERAL  ELECTRIC

COPY 1 OF 1, SERIES 5A

HANFORD ATOMIC PRODUCTS OPERATION - RICHLAND, WASHINGTON

January 10, 1961



THIS DOCUMENT CONTAINS RESTRICTED INFORMATION AS DEFINED IN EXECUTIVE ORDER 11652, ITS TRANSMISSION OR REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED.

TITLE

100-K AREA DOWNCOMER TEST DATA
PROJECT COL-883



OTHER OFFICIAL CLASSIFIED INFORMATION
THIS MATERIAL CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U. S. C., SECS. 793 AND 794, THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

AUTHOR

P. H. Hutton

ISSUING FILE

[REDACTED]

EXERCISE COPY
JAN 12 1961
RETURN TO
TECHNICAL INFORMATION FILES

ROUTE TO:

300 Area Files

PAYROLL

RECORDS

FILES ROUTE DATE

SIGNATURE AND DATE

[REDACTED]

DECLASSIFIED

DECLASSIFIED

HW-68101

This document classified
by: [Signature]

This document consists of
4 pages. No. 5 of
6 copies. [Redacted]

COPY 1 OF 1, SERIES MA

100-K AREA DOWNCOMER TEST DATA
PROJECT CGI-883

By:

P. H. Hutton
Reactor, Plant Engineering Operation
Facilities Engineering Operation
IRRADIATION PROCESSING DEPARTMENT

January 10, 1961

Distribution

- | | | |
|-------|----------------|--------|
| 1. | P. H. Hutton | 1704-F |
| 2- 3. | L. M. Keene | 762 |
| 4. | M. H. Schack | 762 |
| 5. | 300 Area Files | 300 |
| 6. | Record Center | 700 |

Classification Cancelled and Changed To

DECLASSIFIED

By Authority of W.P. Snyder

2-22-94, CG-PR-2

By DK Hanson 4-21-94

Verified By J.E. Sauley
4-21-94

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

DECLASSIFIED

MASTER

UNCLASSIFIED

100-K-0101

Page 2

IRRADIATION PROCESSING DEPARTMENT

January 9, 1960

M. H. Schack
Reactor Modification Design Operation

100-K AREA DOWNCOMER TESTING
PROJECT CGY-3A3

- Ref: 1) Letter, same subject, PH Hutton from MH Schack, 8/26/60.
2) Letter, same subject, MH Schack from PH Hutton, 9/9/60.
3) Letter, same subject, MH Schack from PH Hutton, 12/2/60.

Attached is a copy of 105-KE downcomer pressure data requested by you in Reference 1. A sketch showing location of the various data points is also attached.

The transducers have been left in place on the downcomer. This will permit you to review the data to determine if additional information is needed. Since the transducer assemblies deteriorate under rear face conditions any additional data should be requested as soon as possible to enhance its reliability.

If there are any questions, please call me on 2-5832.



P. H. Hutton
Reactor, Plant Engineering Operation

PHH

UNCLASSIFIED

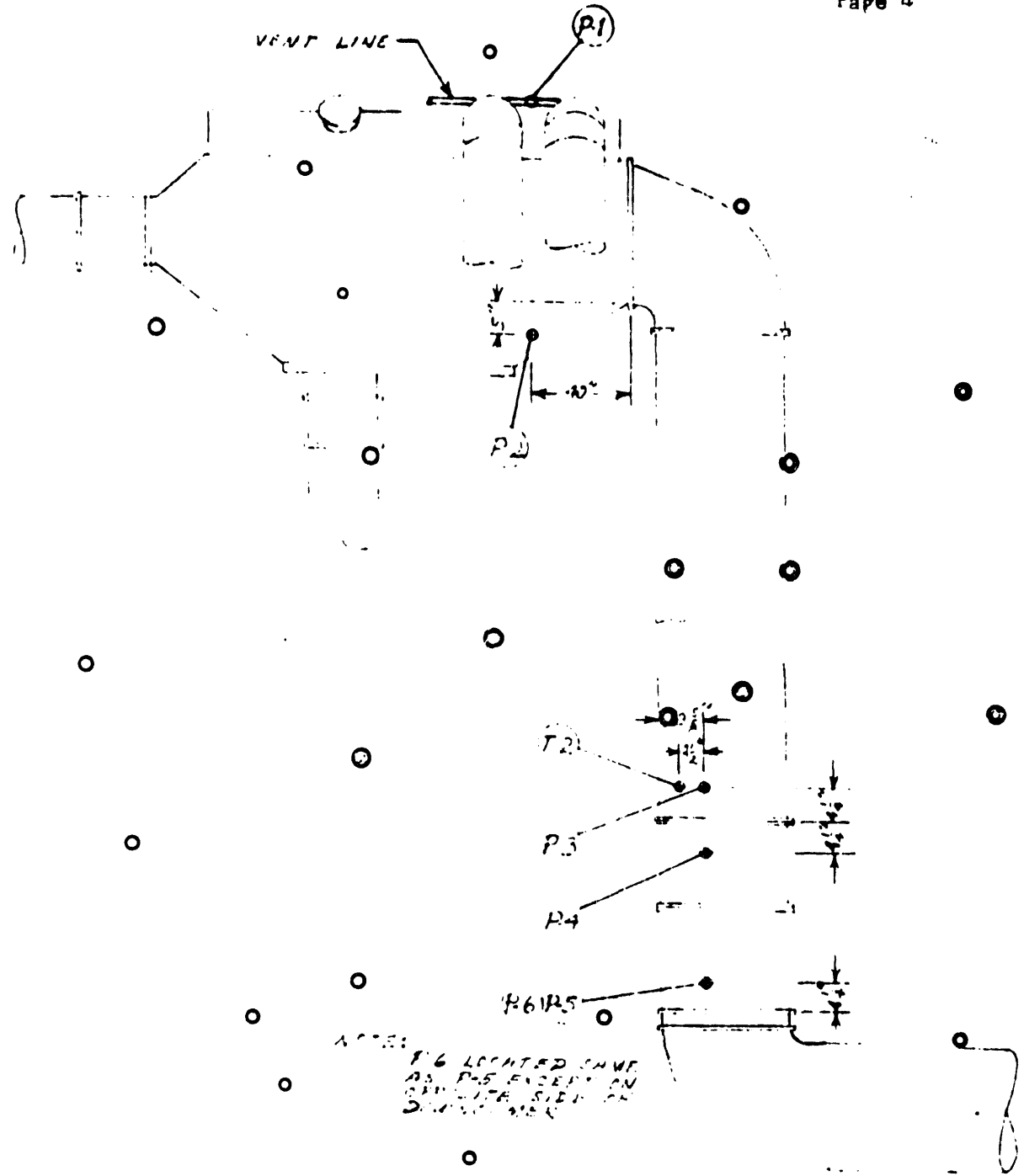
DATA FROM: 105-KE DOWNCOMER PRESSURE AND TEMPERATURE MEASUREMENTS FOR SHUTDOWN, FULL COLD FLOW AND EQUILIBRIUM CONDITIONS

DATE	TIME	CALV	CONDITION		LOCATION	HIGH PSIG	LOW PSIG	AVG. PSIG	FREQUENCY CPS
			FLOW GPM	TEMP.					
12/16/60	9:07 pm	1	47,000	50.0	P-1	Negligible variation	-0.1	1.25	Shutdown
"	"	2	"	"	P-2 [⊙]	"	1.2	-	
"	"	3	"	"	P-3	"	2.5	-	
"	"	4	"	"	P-4	"	2.6	-	
"	" [⊙]	5	"	"	P-5	"	4.6	9.0	
"	"	6	"	"	P-6	"	4.3	-	
"	"	8	"	83.0C	T-2	-	⊙	-	
12/16/60	11:43 pm	1	165,000	360.0	P-1	-0.2	-0.27	-0.24	Full Cold Flow
"	"	2	"	"	P-2	2.3	1.1	1.7	18.0~0.1-1.4 psi peak to peak
"	"	3	"	"	P-3	17.0	14.0	15.5	17~1.0-2.5 psi peak to peak
"	"	4	"	"	P-4	1.5	-1.5	0	22~0.5-1.5 psi peak to peak
"	"	5	⊙	"	P-5	9.75	9.25	9.5	8.5~0.5-2.5 psi peak to peak
"	"	6	"	"	P-6	9.1	7.7	8.4	16.0~0.4-0.8 psi peak to peak
"	"	8	"	83.0C	T-2	-	-	-	50~0.0-2.7 psi peak to peak
12/27/60	11:40 am	1	180,000	401.0	P-1	-0.2	-0.6	-0.4+2	⊙ Equilibrium
"	"	2	"	"	P-2	2.3	1.25	1.8	16~0.1-2.0 psi peak to peak
"	"	3	"	"	P-3	15.0	⊙ 10.0	* 14.9	31.0~1.0-2.5 psi peak to peak
"	"	4	"	"	P-4	24.0	-4.3	-2.9	10.0
"	"	5	"	"	P-5	Negligible variation	9.3	9.3	14.0~0.3-1.5 psi peak to peak
"	"	6	"	"	P-6	10.5	9.5	10.0	31.0~0.25-4.4 psi peak to peak
"	"	8	"	83.0C	T-2	-	-	-	-

UNLESS OTHERWISE NOTED, AN ACCURACY OF + 1% IS ASSUMED.

* NOTE: Accuracy of these values is questionable. Sensitivity of the transducer shifted substantially in the interim between the second and third test conditions. The two sets of numbers represent two different runs at this test condition. The average reflects all four numbers.

DECLASSIFIED



NOTE:
P-6 LOCATED ABOVE
TANK P-5 LOCATED ON
SIDE OF TANK

105 - KE
EFFLUENT PRESSURE & TEMPERATURE
TAPS

**DATE
FILMED**

7 / 01 / 94

END

