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.

(CLASSIFICATION)

DECLASSIFIED

HW-69088

SERIES AND COPY NO.

GENERAL ELECTRIC

HANFORD ATOMIC PRODUCTS OPERATION - RICHLAND, WASHINGTON

DATE

April 5, 1961

TITLE

LOADING AND OPERATING CONDITIONS
FOR PT-IP-401-A AND PT-IP-363-A IN KER-1

AUTHOR

W. K. Kratzer

ISSUING FILE

CIRCULATING COPY
RECEIVED 100D AREA

APR 10 1961

RETURN TO

☐ 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 TRANS-
MISSION OR REVELATION OF WHICH IN ANY MANNER
TO AN UNAUTHORIZED PERSON IS PROHIBITED BY
LAW.

TO IT, WHEN NOT IN USE, IT SHALL BE KEPT IN A SAFE OR OTHER PROTECTED PLACE, AND NOT BE LOANED, REPRODUCED, COPIED, OR IN ANY MANNER DISCLOSED TO ANY UNAUTHORIZED PERSON. IT IS THE RESPONSIBILITY OF THE USER TO RETURN IT TO THE ISSUING OFFICE WHEN NOT IN USE. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE THAN THAT FOR WHICH IT WAS ISSUED. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE ISSUING OFFICE. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE THAN THAT FOR WHICH IT WAS ISSUED. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE ISSUING OFFICE.

ROUTE NO:

ROLL NO.

LOCATION

FILES ROUTE
DATE

SIGNATURE AND DATE

CA Evans

13097

325

APR 10 1961

CA K 177

20825

325

APR 28 61

DECLASSIFIED

MASTER

54-3000-340 (3-57)

AEC-GE RICHLAND, WASH.

(CLASSIFICATION)

DISTRIBUTION OF THIS DOCUMENT

DECLASSIFIED

HW-69088
Page 1

DISTRIBUTION

1-2. AEC-HOO: RL Plum	30. GC Lewis
3. AEC-HOO: PM Midkiff	31. CA Mansius
4. FW Albaugh	32. NR Miller
5. GS Allison	33. MK Millhollen
6. TW Ambrose	34. JE Minor
7. ER Astley	35. SL Nelson
8. LV Barker	36. JW Nickolaus
9. RS Bell	37. R Nilson
10. WA Blanton	38. WA Oldham
11. RW Bown	39. RE Olson
12. JH Brown	40. GF Owsley
13. JJ Cadwell	41. CA Priode
14. RL Call - GT Geering	42. T Prudich
15. WA Crossman	43. RW Reid
16. DR Dickinson	44. OC Schroeder
17. EA Evans	45. RJ Shields
18. WA Snyder 182-25-97 Fiorelli	46. RD Shimer
19. JM Fouts	47. WR Smit
20. GC Fullmer	48. HG Spencer
21. SM Gill	49. JT Stringer
22. OH Greager	50. GF Thomas
23. RE Hall	51. RE Trumble
24. AK Hardin	52. FW VanWormer
25. PC Jerman	53. EE Weyerts
26. AR Kosmata	54. FW Woodfield
27. WK Kratzer	55. 300 Files
28. LE Kusler	56. Records Center
29. GA Last - JW Goffard	

Classification Cancelled and Changed to

DECLASSIFIED

By Authority of CG-PR-217

WA Snyder 182-25-97

By Jerry Maley - 3-4-64

Verified By McHanson, 3-2-64

This document classified by

AD Gilbert

This document consists of
3 pages,

IRRADIATION PROCESSING DEPARTMENT

April 5, 1961

DECLASSIFIED

DECLASSIFIED

HW-69088
Page 2

LOADING AND OPERATING CONDITIONS
FOR PT-IP-401-A AND PT-IP-363-A IN KER-1

Production Test IP-401-A⁽¹⁾ authorized the irradiation of 18-inch UO₂ elements and Production Test IP-363-A⁽²⁾ authorized 18-inch KSE-3 elements. This document provides the specific loading and operating conditions for a charge of one UO₂ element and two KSE-3 elements in KER-1.

The loading shall consist of 1 eight-inch triangular perf downstream, 28 eight-inch spacers, 1 modified eight-inch triangular perf, 2 eighteen-inch KSE-3 elements, 1 modified eight-inch triangular perf, 1 eight-inch triangular perf, 1 eighteen-inch UO₂ element, and 1 triangular perf upstream. The operating conditions are given in Figure 1.

W. K. Kratzer
Process & Reactor Development
Research and Engineering

WKK:kmm

APPROVED:

J. H. Brown, Manager
Process and Reactor Development
Research and Engineering
R. W. Reid, Manager
Process Technology
Research and Engineering

- 1) Kratzer, W. K. Production Test IP-401-A, Irradiation of Zircaloy-2 Jacketed Tubular UO₂ elements in the KER Loops, HW-68855. March 16, 1961.
(SECRET)
- 2) Kratzer, W. K. PT-IP-363-A, Irradiation of Zr-2 Jacketed Enriched Single Tube Fuel Elements in the KER Loops, HW-67168. October 19, 1960. (SECRET)

FIGURE 1

Operating Conditions

**DATE
FILMED**

7/12/94

END