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7-4514

CLASSIFICATION CANCELLED (CHANGE TO)
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BY AUTHORITY OF

May 1973

PM Eick 3-31-99
PDOMAN 7-19-99

SPECIAL RE-REVIEW
FINAL DETERMINATION
DECLASSIFICATION CONFIRMED

BY AE BARBER DATE 3-1-82
BY DATE

- #1 D. A. Miller - T. E. Stapleton -
- M. E. Smith - 700 Area
- #2 J. E. Tilley - Wilmington
- #3 J. E. Tilley - Wilmington
- #4 W. C. Kay
- #5 G. H. Gross - E. W. French - 500
- #6 Area Engineer - Att: Patent Group
- #7 Area Engineer
- #8 W. E. Jordan
- #9 O. W. J. Wende
- #10 U. M. Staebler - E. B. Montgomery
- #11 E. P. Lee
- #12 Pink Copy
- #13 Yellow Copy

JUNE 24, 1948

PRODUCTION TEST NO. 105-55-P

SUPPLEMENT A

SPECIAL IRRADIATION - REQUEST 15-1

Objective

To subject seventeen special slugs provided by the Army to irradiation in a pile. These slugs contain lithium fluoride.

Basis

The present irradiation is the second installment of Request 15. The irradiation of the first installment is described in the Final Report on Production Test 105-55-P, May 2, 1948, Doc. No. 7-4048. The details of the proposal for the present irradiation are given in Chapman to Daniels, undated, Document No. 8181. Authorization to proceed with the exposure is given in a teletype, Worthington to Kay, June 24, 1948.

Procedure

During the shutdown of the D Pile on June 25, the seventeen slugs of Request 15-1 will be charged into Tube No. 1579 and centered in the column by means of standard lead dummy slugs. The special slugs will be loaded in the order of 15-1-1 to 15-1-17. The irradiation will continue for approximately 80 days, and the slugs are to be shipped to the Metallurgical Laboratory approximately one week after discharge. The special column is expected to absorb approximately 27 inches.

Data

Technical will determine the exposure history by integrating the output of the adjacent active columns.

Equipment

The special slugs were prepared by the Metallurgical Laboratory and were tested and measured in the 500 Area. Of the nineteen slugs originally supplied, two were

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June 24, 1946

found to leak and have been returned. The remaining seventeen were cased and tested satisfactorily. The finished length of the slugs was 3-5/8 inches $\pm$ 1/8 inch. The Metallurgical Laboratory will provide shipping containers heavier than the one-inch iron containers provided for Request 18.

Responsibility

C. W. J. Wende, 100 Technical
U. W. Stasler, 100 Technical

Estimated Completion

September 1, 1946

Approvals

<u>W. Z. Jordan</u>	W. Z. Jordan	6-26-46	Date
	100 - 100 Technical		
<u>C. H. Gross</u>	C. H. Gross	6/26/46	Date
	P Department		
<u>M. E. Smith</u>	M. E. Smith	6-26-46	Date
	Production Superintendent		

CWJW:jd

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100 AREA
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