



DOE Openness: Human Radiation Experiments: Roadmap to the Project



Declassified Documents

HOME ROADMAP WHAT'S NEW SEARCH HREX MULTIMEDIA RELATED SITES FEEDBACK

Declassified Documents

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**BOX # 51** **260**

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**RADIOLOGICAL WARFARE PROGRAM**

**CAUTION**  
 This document contains information...  
 1948

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REFER TO SYMBOL: RT:JWR

Reference is made to your memorandum dated July 2, 1948, above subject. Herewith is a report of the completed program as outlined:

**a. Production and tests involving Rala sources**

- During the period July 6 to July 12, a total of 523 slugs were pushed from the Clinton reactor and processed with a yield of approximately 1400 curies of Ra<sup>226</sup>. This product was split into three Rala sources of approximately 1280, 100, and 20 curies each. Special containers were fabricated to prevent wind loss and permit safe handling during the tests to follow. The product was allowed to reach equilibrium and delivered July 17 to the measuring groups. A single source test was conducted under the direction of J. E. Robertson, ORNL, Health Physics Department. The test was completed without unusual event and the results are reported in an unnumbered memorandum entitled "Single Source Lanthanum Test, AHRU Program" dated July 23, ORNL, Central File No. 48-7-380. E. J. Murphy is in receipt of this document, copies four through thirteen, inclusive.
- A second experiment, using the largest Rala source, (at 61% of its July 17 strength) was conducted in connection with a request from Project RAND in a letter from E. E. Pleasant to W. A. Keyes, Jr, dated July 16, and results are reported by Dr. Robertson in an unnumbered memorandum, subject: "Shadow Shield Experiment, AHRU Program" dated July 20, ORNL, Central File No. 48-6-49. E. J. Murphy is in receipt of this document, copies four through thirteen, inclusive.
- The Rala sources are now decaying in shields at the ORNL burial grounds.

**b. Production and tests involving tantalum sources**

- As mentioned in the original directive, several tantalum sources were to be prepared at ORNL. The first experiment involved activation of 1152 tantalum pellets. These

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