

A-84-019
57-9

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INTER-OFFICE MEMORANDUM

~~NO~~
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CLASSIFICATION CANCELLED
PER DOC REVIEW JAN. 1973
Date: March 16, 1945

To: Mr. J. R. Oppenheimer and
Mr. S. K. Allison

From: K. T. Bainbridge

Subject: Study of Fission Products from 49 at Metallurgical Lab

The plan for the test of the gadget at Trinity calls for a measurement of the efficiency by extraction of fission products and 49 from samples of earth taken after the shot. The planning for this equipment called for several preliminary studies for which facilities were not available at Y. In order to be in a position to carry out the efficiency measurement at the time scheduled for the shot, we asked Drs. Sugarman and Zinn at the Metallurgical Lab. to:

1. Investigate the fission yields from 49 and in particular study the energy dependence of these yields with the object of finding those fission products which had a small energy dependence.
2. Study the chemistry of the soil at Trinity with the object of finding what chemical procedure would be needed to quantitatively extract certain selected fission products.

For these studies the facilities and training of the groups under Drs. Sugarman and Zinn are particularly well suited. No additional major equipment needs should be required. Estimated man hours are

Chemists	800
Physicists	400

KTB/bca
cc - H. Anderson ✓
file

K. T. BAINBRIDGE

FINAL DETERMINATION
UNCLASSIFIED
L. M. Redman
JAN 14, 1981

VERIFIED UNCLASSIFIED
PUBLICLY RELEASABLE
LAN Classification Group
(Signature)
JUN 18 1998

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