

CL4

404549

TO : Dr. T. L. Shipman, H-DO
FROM : J. D. Servis, TU-7, TG 7.1
SUBJECT: HEALTH HAZARDS OF OPERATION CASTLE
SYMBOL : J-16195

DATE: 13 February 1953

~~RESTRICTED DATA~~
This document contains data as defined in the Atomic Energy Act of 1946.

This document consists of 1 pages
No. 1 of 5 copies. Series A

1. The present concept of Operation Castle considers surface and barge shots at Eniwetok and Bikini atolls.
2. The number of shots involved indicate a requirement for Scientific Task Group personnel to re-enter these lagoons on naval vessels in order to prepare installations for succeeding shots. Experience at Operation Ivy and Operation Crossroads indicates that cloud fall-out will contaminate the lagoon for a considerable period of time.
3. In order to psychologically prepare the Task Force for this eventuality, your comments and recommendations on the potential health hazards to be encountered by such ship re-entry would be of great assistance. It is felt that the military services understand the nature of external radiation hazards, but are somewhat confused in their concept of hazards from the possible ingestion or inhalation of fission and fissile material.
4. Your comments will constitute a basis for proper indoctrination of the Task Force in potential health hazards following surface thermo-nuclear detonations. A proper indoctrination will lead to increased efficiency of Task Force operations in contaminated areas.

John D. Servis
John D. Servis
Commander, TU-7

REPOSITORY *Los Alamos Nat Lab*
COLLECTION *CL-4*
BOX No. *11331-1*
FOLDER *Castle General*

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