

~~SECRET~~
GROUND SAMPLING PROGRAM

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THIS DOCUMENT CONSISTS OF 2 PAGE(S)

1. General This program is an attempt to obtain samples of bomb fragments reaching points at or near the ground at predetermined times. Five of each of two types of collecting mechanisms will be installed 175 feet from ground zero on Engebii and Ebiriru. After each shot, when radiation level permits surviving collectors will be recovered, transported to Parry, opened and turned over to radiochemists for analysis of contents.
2. Mission The mission of this program is to determine the feasibility of collecting bomb samples at or near the ground in the immediate vicinity of ground zero.

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DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1ST REVIEW DATE: 09-10-97	DETERMINATION (CIRCLE NUMBER(S))
AUTHORITY: <input type="checkbox"/> N <input type="checkbox"/> DC <input type="checkbox"/> DC <input type="checkbox"/> ADD	1. CLASSIFICATION RETAINED
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AUTHORITY: ADD	4. COORDINATE WITH:
NAME: <i>P. Ashburner</i>	5. CLASSIFICATION CANCELED
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3. Tasks

- a. Installation of collecting mechanisms

During the period D-30 to D-5 five ground collecting bottles and five air collecting bottles are to be installed, ~~first~~ first on Engebii for shot Easy and next on Ebiriru for shot George. Preliminary work, construction and placement of pits for ground bottles and of pylons for air bottles is to be completed by H&N prior to D-30 on both sites. Installation work by task group 1.7.1.2 consists of placement of bottles in the prepared positions, connecting of electronic equipment, testing of all components and final loading and priming of charges on D-1 and E-1 respectively. For accomplishment of this task one 2-ton crane with operator will be required on Engebii continuously during the period D-30 to D-1. Four laborers will also be required during this period. During the period D-5 to D-1 services of one arc welding outfit and qualified operator will be required at this site. Ready magazine storage will be required on Engebii for thirty 15-gram black powder charges to be expended at the rate of three to five per day during final test phases. Similarly, upon completion of preliminary installations on Engebii, on or about D-15, crane and labor and magazine services will be required on Ebiriru until D-5. Arc welding

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services will be required on Ebiriru during the period E-5 to E-1.

If installations on Ebiriru are not completed prior to D-5, crane and labor services will be required on this site during all or part of the period D +1 to E-5. One tool and equipment vehicle, jeep, weapons carrier or light truck will be required continuously on each site during the heavy installation phases of the operations.

b. Recovery of collecting mechanisms.

Recovery of the collecting devices or such as these as survive will proceed at the earliest time following each shot as radiation conditions permit. It will be desirable, for recovery planning purposes, to obtain low oblique angle photographic reconnaissance of the installation areas on D +1 and E + 1 respectively if this can be obtained incidental to other photo reconnaissance requirement of other groups. At such time as radiation levels permit ground reconnaissance will be carried out. This will require landing craft transportation. One group member and one rad-safe monitor from Parry to shot island and return, personnel to be beached at nearest feasible point to installations, boat to remain on beach until return of personnel from brief inspection/ tour of area. Personnel will utilize transportation available on island. This trip can probably be made sometime during the period D +3 to D +4, (or E + 2 to E + 4 as applicable). When radiation level reaches point such that personnel can safely remain in shot area for a minimum of four hours without exceeding daily tolerance dose, on or about D + 5 (or E + 5) main recovery operations will commence. These operations will require continuous services of one LCM with crew, to operate as directed by Comdr. W. M. Klee, U. S. Navy, attached to this group; one cat and operator, one crane with ball and operator, eight laborers and one monitor. Bottles will be recovered by whatever methods and in whatever order as found practicable at the time. They will be transported to the beach, tested for internal pressure, loaded into the LCM and transported to Parry.