

02016309

1.7.1 Radiochemistry Operation Plan

THIS DOCUMENT CONSISTS OF 2 PAGES

I. General

Operations of 1.7.1 Radiochemistry are directed toward obtaining samples of the bomb debris from the cloud, the stem, or the ~~ground~~ ^{ground-level fire ball.} Drone aircraft are used as a reliable method of ~~xxx~~ securing samples for all shots.

Two other methods of obtaining samples are to be tested experimentally on several of the shots. Samples obtained in these experiments will be ~~evaluated~~ ^{evaluated} chemically in the ~~Parry Island Laboratory~~ ^{radiochemical laboratory on Parry Island.} ~~This laboratory will also be available for a limited amount of service work for other experimental groups.~~

2. Mission

411385

A. Drone Aircraft 1.7.1.1

The purpose of this project is to collect samples of the cloud stem for all shots by means of drone aircraft operated by Td 3.4.2. Samples obtained are dispatched to Z.I. by special plane approximately within 3 hours after each shot.

B. Ground Level Sampling 1.7.1.2

^{located 175 feet from base of the tower} Ground level collectors will be tested as a sampling method on Easy and George shots. A vertically mounted type flush with the surface of the ground and a horizontally mounted type supported about five feet from the ground are to be used. Collectors will be recovered from the crater area after each shot, transported to Parry Island and their effectiveness determined by radio-chemical examination of the contents.

BEST COPY AVAILABLE

C. Rockets 1.7.1.3

Rockets will be tested on George shot as a method of cloud and stem sampling. They will be fired from Bifjiri Island to land on Rujoru Island from which they will be recovered. After ~~part~~ partial disassembly on Rujoru the filter units from the rockets will be taken to Parry Island for radiochemical evaluation.

D. Radiochemical Laboratory 1.7.1.4

^{above} This laboratory is intended for the evaluation of the ground level samples and rockets experiments, as conditions permit,

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1ST REVIEW DATE: 8-10-77	DETERMINATION (CIRCLE NUMBER)
AUTHORITY: OROC EADC EADD	1. CLASSIFICATION RETAINED
NAME: [Redacted]	2. CLASSIFICATION CHANGED TO:
2ND REVIEW DATE: 10-11-97	3. CONTAINS NO DOE CLASSIFIED INFO
AUTHORITY: ADD	4. COORDINATE WITH:
NAME: [Redacted]	5. CLASSIFICATION CANCELLED
	6. UNCLASSIFIED INFO BRACKETED
	7. DATE (SPECIFY): 2/8/00

RESTRICTED DATA
This document contains restricted data and is controlled under Atomic Energy Act of 1954. Unauthorized disclosure is subject to Administrative and Criminal Sanctions.

STANDARD 5816 000 0

~~SECRET~~ Oct 24

~~SECRET~~
it may also perform limited service work at the request of
the experimental groups.

-2-

3. Tasks

A. Drone Aircraft

~~SECRET~~
DOCUMENT#

1. Pre-shot check out of filter unit operation will be performed by Tu 3.4.2.
2. Pre-shot preparation of filter panels and installation of the filter papers in the panels will be done by 1.7 personnel in Bldg. 57 on Eniwetok.
3. Pre-shot installation of filter panels in the units on the drones will be done by 1.7 personnel with use of two weapons carriers to transport materials.
4. The latest ^{pre-shot} meteorological data will be examined by 1.7 personnel for effect on predicted cloud rise times and changes (if any) ^{the phasing of} initial entry times ^{phasing} for the drones will be given to Tu 3.4.2.
5. Post shot recovery of filter panels from drones will be done by four 1.7 personnel brought from the Z.I. for this purpose and aided and supervised by 1.7 personnel already at the atoll. Two weapons carriers and the 1.7 Eniwetok jeep will be required for this operation. The panels will be loaded into lead boxes provided by 1.7 and the boxes transferred to two special sample aircraft. This operation will require a fork lift. All recovery operations will be checked by four Rad-Safe monitors under the direction of Maj. Payne Harris. M.G. Bowman and N.F. Plank are responsible for the ^{above} operations and will be assisted by Cdr. W. M. Klee and Col. B. W. Sorenson.

~~SECRET~~