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J-DIVISION LOS ALAMOS SCIENTIFIC LABORATORY UNIVERSITY OF CALIFORNIA P. O. BOX 1663 los alamos, new mexico

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18 December 1952

326 US ATOMIC ENER

COMMISSION

MENO TO: Carroll L. Tyler, Test Manager

: Test Director, J-Division, LASL

OPERATION PLAN, CONTINENTAL ATOMIC TESTS, SPRING 195

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Introduction

Atomic tests currently planned for the Spring of 1953, to be conducted at the Nevada Proving Grounds, are divided into two operations.

- a. The first group of tests, code name UPSEOT, is of primary interest to the Atomic Emergy Commission and will consist of six detonations proposed by the Los Alamos Scientific Laboratory. and two detonations proposed by the Radiation Laboratory, Livermore. These tests are concerned primarily with weapon development but will include weapon effects and civil effects tests, and hence have a secondary interest to the Department of Defense and to the Federal Civil Defense Agency. Although no formal request has been received by the Test Director, plans have been discussed for participation by the Department of Defense insoveral or all of these tests with en operation designated as Desert Rock V.
- b. The second group of tests, code name KNOTHOLE, has been requested by the Department of Defense, and will consist of two detonations, the first being an air burst of a File accompanied by a comprehensive program of emperimentation of primary interest to the Department of Defence, and the second being a "proof-firing" (air burst) of the rittle also accompanied by considerable experimentation of primary interest to the Department of Defense. Although no formal requests have been received by the Test Director, it is understood the Department of the Army will conduct tactical maneuvors during the the least an addition to the Desert Rock V programe The Los Alemos Scientific Laboratory will make the alpha and yield mersurements for Operation KNOTHOLE.

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c. It is the purpose of this document to list the proposed program of operation for those tests, to enumerate the Test Director's organization required to conduct them, to state requirements for military and other agency support, and to list the experimental program participation in the various tests.

2. Program for Operation UPSHOT/KNOTHOLE

Although the weapons to be detorated in Operation KNOTHOLE are considered firm, the number and design of the devices to be tested in Operation UPSEOT have not been firmly specified. Current planning provides for the following firing schedule:

Description	Date	Area	Air/Tower
DELETED	17 March °53	3	300 tower
	2l, March 153	Ħ	300° tower
	31 March 153	· 7-5a	300° tower.
	6 April 153	7-?	Air Drop
	11 April °53	2	300' torer
	18 April °53	4a	50' tower
	25 April *53	1	300' tower
	2 Key 153	32	300° tower
Dry Run	4 May '53	F	2420° air (H.E. only)
Effects	7 Hay 153	F	2020; sir drop
Gun	21 Hay 153	F	500° air burst

In the above schedule the proposed by UCRL Livermore, are thermonuclear tosts. The lifects and Gun weapons are
for the Department of Defense tosts, the Effects detoration utilizing
be reunched from the Army's 200-ma gun located approximately 13,000 yds.
south of the zero point on Frenchman Flat. The remaining devices are
proposed by the Los Almas Scientific Laboratory.







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In addition to the nuclear detonations, it is considered advisable to conduct a complete dress rehearsal prior to the Effects test. The magnitude of (a) the air support and participation operation, (b) radio frequencies, (c) the smoke test problems, (d) the funds invested in structures and instrumentation, and (e) the inexperienced personnel who will participate, all justify the decision for a complete dress rehearsal.

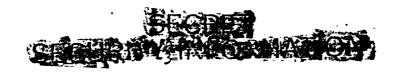
3. Test Director's Organization

Enclosure "A" shows the Test Director's organization considered necessary to accomplish the tests.

L. Military and Other Agency Support

Support from the following agencies is considered necessary for these operations. Formal requests for the services enumerated are covered in separate documents.

- a. Air Weather Service (USAF)
 - 1) Iccal atmospheric conditions at shot times. These include temperature, humidity, pressure, density, velocity, and direction from ground surface to 50,000°.
 - 2) Compred U.S. weather information, including daily weather maps.
 - 3) Detailed forecasting from approximately two weeks before to the completion of the tests.
- b. Aircraft Support (SHC)
 - 1) Bomb delivery and disaster mircraft.
 - 2) Manaed cloud-sampling aircraft.
 - 3) Kanned cloud-tracking aircraft for airmay clearance and off-site radiological safety from the Kevada Proving Grounds to a 500 mile radius.
 - 4) General purpose helicopters and liaison-type aircraft primarily for use by the rad-safe unit.



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- 5) Logistic support aircraft for cargo transportation between Kirtland Air Force Base and the Nevada Proving Grounds.
- 6) Courier aircraft for carrying radioactive samples from the Nevada Proving Grounds to Berkeley, IASL, and certain eastern laboratories.

c. Military Automotive Equipment

In addition to the military vehicles being supplied by the Directorate, Weapons Effects Tests, AFTMP, for the military effects programs and other military units in the Test Director's organization, there will be requested approximately thirty military vehicles of the jeep and four-wheel drive class. This latter group is for use by the Civil Effects and Weapon Development technical test groups.

d. Military Personnel

Other military personnel will be requested to assist in various duties involved in both the support units and technical projects under the Test Director. These personnel requirements are not as yet firm and detailed lists will be submitted through the Office of Test Operations, SFOO, when the exact requirements are known.

e. Rad-Safe Unit

The Rad-Safe Operations Unit shown as one of the support units in Enclosure "A" will consist mostly of military personnel under It. Col. T. D. Collison. Col. C. S. Maupin, a medical officer, has been designated the Rad-Safe Staff Officer. The off-site rad-safe operations involving air-sampling operations will probably be manned with approximately 30 USPHS personnel, 15 for the first five shots and 15 for the second five shots of the series.

f. Civil Aeronautics Administration

As in past operations at the Nevada Proving Grounds, the 6th Region CAA (Los Angeles) has been notified of the proposed Spring 1953 tests, and this office has stated they will assign Mr. Harold Greenleaf of the Salt Lake Office to be their representative at the Control Point during the tests. This is the arrangement which has been very satisfactory in previous operations.







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g. New York Operations Office

Informal arrangements have been made with the New York Operations Office to participate in the long-range fall-out measurements. It is expected formal agreements for this work will be handled by the Division of Military Application. In this connection, it is also expected the Division of Military Application will notify the photographic industries regarding the test schedule.

5. Project Perticipation

Enclosure "B" outlines the experimental programs and projects involved in Operation UPSHOT/KNOTHOLE by the Military Effects, Waapons Development, and Civil Effects Groups. No formal proposals for Desert Rock participation have been received by the Test Director as of this data.

FOR THE TEST DIRECTOR:

Original Signed by J. C. CLARK

J. C. Clark Deputy Test Director

Enc: 1 Org. Chart

1 Participation Chart (J-15203)

JCC: 1h

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