

RCC1.950330.031

OSD ATSD(AE) DECLASSIFICATION REVIEW BOARD COMPRISED OF REPRESENTATIVES OF OSD, THE AIR FORCE, ARMY AND NAVY HAS NO OBJECTION TO THIS DOCUMENT BEING DECLASSIFIED

DEPARTMENT OF DEFENSE
MILITARY LIAISON COMMITTEE
P. O. BOX 1814
WASHINGTON 25, D. C.

WITH ATTACHMENTS/ENCL

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
SINGLE REVIEW AUTHORIZED BY: <i>AA Swinburn 4/1/84</i>	DETERMINATION (CIRCLE NUMBER(S)) 1. CLASSIFICATION RETAINED 2. CLASSIFICATION CHANGED TO: 3. CONTAINS NO DOE CLASSIFIED INFO 4. COORDINATE WITH: <i>120</i> 5. CLASSIFICATION CANCELLED 6. CLASSIFIED INFO BRACKETED 7. OTHER (SPECIFY):
REVIEWER (ADD): NAME: <i>ML K... 11/29/94</i>	
DATE: <i>11/29/94</i>	

IN REPLY REFER TO:
20221
February 20, 1957

MEMORANDUM FOR The Chairman, U. S. Atomic Energy Commission

SUBJECT: Department of Defense Military Weapons Effects Program for CY 1957 Nuclear Tests at the Nevada Test Site.

Reference: Letter to the Assistant to the Secretary of Defense (Atomic Energy) from the General Manager, Atomic Energy Commission, dated 28 January 1957,* on the above subject.

1. The Military Liaison Committee has reviewed the Commission plans for the execution of Operation PLUMBBOB, as outlined in the referenced letter, and find them satisfactory to the Department of Defense. The Chief, Armed Forces Special Weapons Project, will advise the Commander, Field Command, AFSWP, of the plans proposed and authorize him to deal directly with the Test Manager in matters pertaining to the military portion of the joint operations and the preparation of a joint organization for Operation PLUMBBOB.

2. Attached, as requested, is the Operational Training and Troop Participation Program for Operation PLUMBBOB. This program includes the Department of Defense sponsored projects not included in the DOD Weapons Effects Program.

3. The establishment of the date of 1 April 1957 for the commencement of the operational period for Operation PLUMBBOB is acceptable and the Department of Defense plans will be made accordingly. The DOD participants will come under the operational control of the Test Manager when they report to the test site as directed by Commander, Field Command, Armed Forces Special Weapons Project.

/s/ Herbert B. Loper
Chairman

1 Inclosure:
Operational Training and Troop Participation Program for Operation PLUMBBOB

*Circulated as AEC 944/7

This document contains restricted data as defined in Executive Order 11652 of 1954. It is to be controlled in the same manner to an unauthorized person as is prohibited by law.

47

95-M-0053

OSD ATSD(AE) DECLASSIFICATION REVIEW BOARD
DECLASSIFIED BY: *C. B. ... 1/97*
DECLASSIFIED ON: *28 MAR 95*
IAW EO 12356

Collection	3368
Box	DBM
Folder	35

826 U.S. ATOMIC ENERGY COMMISSION
GENERAL ARCHIVES

CONFIDENTIAL

SP9-2

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

DEPARTMENT OF DEFENSE
Armed Forces Special Weapons Project
Washington 25, D. C.

February 12, 1957

SWPWT/979.5

SUBJECT: Operational Training and Troop Participation Program,
Operation PLUMBBOB

TO: SEE DISTRIBUTION

1. Attached hereto as inclosure 1, is the program of service sponsored projects approved by this headquarters but not included in the DOD Weapons Effects Test Program for subject Operation.

2. Funding for these projects is a responsibility of the sponsoring military service. Any services or supplies furnished by the Exercise Director, Exercise DESERT ROCK or by the Commander, Field Command, AFSWP, will be made available on a reimbursable basis or as otherwise specified by current directives or agreements.

3. This correspondence is marked "For Official Use Only" solely because of the addition of inclosure. When this is removed, protective markings will be canceled.

FOR THE CHIEF, AFSWP:

/s/ H.O. Beeth
Lt. Colonel, AGC
Adjutant General

1 Incl:
Operational Training and Troop
Participation Program, Operation PLUMBBOB

DISTRIBUTION:

- Deputy Chief of Staff for Military Operations,
Department of Army, Washington 25, D.C.
- Commanding General, United States Continental Army
Command, Fort Monroe, Virginia
- Commanding General, United States SIXTH Army, Presidio
of San Francisco, California
- Director, Evans Signal Laboratory, Belmar, New Jersey
- Commanding Officer, Engineer Research and Development
Laboratories, Fort Belvoir, Virginia
- Chief of Engineers, Department of the Army, Washington
25, D. C.
- Commanding General, Aberdeen Proving Ground, Maryland
ATTN: Director, Ballistics Research Laboratory

~~CONFIDENTIAL~~

DOE ARCHIVES

~~CONFIDENTIAL~~

OFFICIAL USE ONLY

Commandant, Artillery and Guided Missile School, Fort Sill, Oklahoma
Chief, Bureau of Yards and Docks, Department of the Navy, Washington 25, D. C.
Commander-in-chief, U. S. Atlantic Fleet, U.S. Naval Base, Norfolk 11, Virginia
Commander-in-Chief, U.S. Pacific Fleet, c/o Fleet Post office, San Francisco, California
Chief of Naval Operations, Department of the Navy, Washington 25, D. C., ATTN: Op-36
Commandant of the Marine Corps, Department of the Navy, Washington 25, D. C.
Commanding General, FIRST Marine Division (Reinf), FMF, Camp Pendleton, California
Commanding General, Fleet Marine Force, Pacific, c/o Fleet Post Office, San Francisco, California
Assistant for Atomic Energy, Headquarters, USAF, Washington 25, D. C.
Director of Personnel Procurement and Training, Headquarters, USAF, Washington 25, D. C.
Office of Atomic Energy, Deputy Chief of Staff, Operations, Headquarters, USAF, Washington 25, D. C.
Commander, Air Defense Command, Ent AF Base, Colorado Springs, Colorado
Commander, Strategic Air Command, Offutt AF Base, Nebraska
Commander, Air Training Command, Scott AF Base, Illinois
Commander, Lowery AF Base, Colorado
Commander, Wright Air Development Center, Wright-Patterson AF Base, Ohio
Director, Special Weapons Development Office, United States Continental Army Command, Fort Bliss, Texas
Commander, Field Command, Armed Forces Special Weapons Project, P.O. Box 5100, Albuquerque, New Mexico
Chief, Armed Forces Special Weapons Project, Washington 25, D. C.

~~CONFIDENTIAL~~

DOE ARCHIVES

OFFICIAL USE ONLY

SWPWT/979.52

OPERATIONAL TRAINING PROGRAM
OPERATION PLUMBBOB

1. GENERAL:

a. This presents a consolidation of Service proposals approved by AFSWP for participation in PLUMBBOB (except those included in the DOD Weapons Effects Tests Program).

b. Projects listed herein, or added hereto at some later date, must be scheduled on the basis of non-interference with AEC diagnostic or DOD military effects tests.

2. RADIOLOGICAL SAFETY:

a. Maximum permissible dose limits for project participants shall be prescribed by the sponsoring military service.

b. Responsibility for radiological safety of project personnel shall rest with the project officer.

c. Each project must provide its own Rad-Safe monitors. (In order to fulfill this requirement, projects may send untrained personnel to a monitor training course to be conducted on the test site prior to the start of the tests.)

3. SECURITY:

Requirements are outlined in Annex B to COMFLDCOM AFSWP Operational Planning Guide for Operation PLUMBBOB, copies of which will be furnished to project officers at a later date.

4. REPORTS:

It is requested that information copies of any reports generated as a result of O&T project participation in Operation PLUMBBOB be furnished to the Chief, AFSWP, attention Weapons Effects Division, in order that pertinent portions may be assured of dissemination to all appropriate government agencies.

5. AREAS OF RESPONSIBILITY:

In general, responsibility for projects based at Camp DESERT ROCK shall be discharged by the Exercise Director, Exercise DESERT ROCK VII-VIII. Responsibility for all other O&T projects will be that of Commander, Field Command, AFSWP. Specific responsibilities are indicated in the attached list, Annex A.

6. AUTHORITY FOR DIRECT CONTACT:

a. Project Officers of project denoted herein by (AFSWP) are authorized direct contact with the Deputy Chief of Staff, Weapons Effects Tests, Field Command, AFSWP, P. O. Box 5100, Albuquerque, New Mexico.

OFFICIAL USE ONLY

b. Project Officers of Projects denoted herein by (DR) are authorized direct contact with Exercise Director, Exercise DESERT ROCK, Hq, United States SIXTH Army, Presidio of San Francisco, California.

1 Attachment
ANNEX A

OFFICIAL USE ONLY

ANNEX A

Operational Training and Troop Participation
Projects, Operation PLUMBBOB

UNITED STATES ARMY - PROGRAM 50

50.1 Combat Team Exercise (DR)

A reinforced combat team of the latest type organization, utilizing support of a helicopter transportation company will conduct pre- and post-shot maneuvers in the blast area of an atomic detonation.

50.2 Troop Observers (DR)

Approximately 3,000 Army personnel will attend shots of suitable yield from prepared positions in the blast zone.

50.3 Evaluation of Medium Range Detonation Detection and Cloud Tracking Systems (DR)

Two detector systems of three stations each will be employed. One will be located near Albuquerque, New Mexico and one near Fort Huachuca, Arizona. Cloud Tracking will employ radars at or near the Nevada Test Site.

50.4 Evaluation of Water Decontamination Methods (DR)

Methods developed in laboratory tests to remove fission products from water will be field tested for efficiency in removal of post-detonation contaminants.

50.5 Field Evaluation of Shielding for Engineer Heavy Equipment. (DR)

Lead operator shields of 5,000 pounds (D-8 Tractor) and 2,500 pounds (D-12 Road Grader) will be tested.

50.6 Test of Field Fortifications (DR)

New fox-hole designs employing such refinements as oil drum tunnel entrances, corrugated metal reinforcement and multilayer plywood overhead will be tested for strength and shielding from prompt radiation.

50.7 Test of Ordnance Material (DR)

Three medium tanks will be exposed to obtain information on drag sensitivity, shielding effects, and effects of blast and shock on operating components.

50.8 Troop Test of Atomic Burst Location Equipment (DR)

An Artillery Observation Battalion will utilize new Table of Organization and Equipment Items, Augmented by Special Signal Corps photographic devices, to determine as much as possible the ground zero, height of burst and yield of several detonations.

OFFICIAL USE ONLY

UNITED STATES NAVY - PROGRAM 51

51.1 RAD - Safe Monitor Training (DR)

Approximately 150 persons under jurisdiction of the Bureau of Yards and Docks will conduct monitoring exercises at shots of suitable fall-out characteristics. (A maximum of 50 will be present at any one time).

51.2 VA Squadron Indoctrination (AFSWP)

One VA Squadron, Atlantic Fleet will conduct airborne maneuvers in the vicinity of several shots during a period of about one month to accomplish indoctrination of pilots.

51.3 Heavy Attack Wing TWO Indoctrination (AFSWP)

This Pacific Fleet unit will conduct distant aerial observation of selected bursts.

UNITED STATES MARINE CORPS - PROGRAM 52

52.1 Marine Brigade Exercise (DR)

4th Marine Corps Provisional Atomic Exercise Brigade, consisting of CPX staffs of a Division, Wing, Regiment and Air Group, one BLT (Reinforced), one helicopter group (-), and one air group (-) will conduct pre- and post-shot maneuvers in the blast area of an atomic detonation.

52.2 Troop Observers (DR)

About 150 marines, in increments, will attend shots of suitable yield in prepared positions in the blast zone.

52.3 Marine Air Crew Indoctrination (AFSWP)

Selected Air Crews of Marine Corps Aircraft, Fleet Marine Force, Pacific, will conduct aerial observation flights in the vicinity of NTS at one or more shots.

UNITED STATES AIR FORCE - PROGRAM 53

53.1 Classified Project "RC" - AFOAT-1

53.2 Classified Project "EM" - AFOAT-1

53.3 ADC Air Crew Observers (DR)

Approximately 270 ADC air crew personnel, in increments of thirty, will attend nine tower or balloon shots in prepared ground positions so placed as to approximate the effects of the project 2.9 delivery. Sixty will attend the project 2.9 shot.

53.4 Radiological Defense Training (DR)

Approximately 35 students and 4 instructors from Advanced Radiological Defense Course Number SF 3291-3 will observe and conduct post shot monitor exercises at about 10 shots (Total - 350 students). Personnel will be billeted at Camp DESERT ROCK from D to D+2.

OFFICIAL USE ONLY

53.5 Cloud Fly-through by ADC Interceptors (AFSWP)

Newly generated atomic clouds will be penetrated by from 4 to 12 ADC interceptor aircraft per shot at the earliest time consistent with safe radiation levels. All will operate from ADC bases and will enter and leave NTS control while airborne.

53.6 SAC Combat Crew Indoctrination (AFSWP)

Up to 20 SAC aircraft will fly past at detonation time through an air space 30-40 miles wide having its near edge about 5 miles from GZ and its bottom at 25,000 to 30,000 feet altitude. Participation in all shots of 10 KT or higher is desired.

53.7 B-58 IBDA System Evaluation (AFSWP)

One aircraft will be utilized by WADC at longer ground-to-air ranges and higher altitudes than heretofore employed for IBDA.

53.8 SAC IBDA (AFSWP)

Three B-47 Aircraft will be employed to test the feasibility of and procedures for obtaining IBDA data with the Fire Control System tail radar at ranges of 15,000 to 25,000 feet and altitudes of 1,000 to 8,000 feet above GZ. Participation in shots of 20 KT or more is desired.