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REPORT BY THE COMMANDER JOINT TASK FORCE 132

to the

JOINT CHIEFS OF STAFF

on

ARMED FORCES PARTICIPATION IN THE 1952 NUCLEAR AND THERMONUCLEAR EXPERIMENTAL DEVICE TESTS

References: a. J.C.S. 1998 Series
b. J.C.S. 2179 Series

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SIGNATURE John L. Bibby E.

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REPORT BY THE COMMANDER, JOINT TASK FORCE 132

to the

JOINT CHIEFS OF STAFF

on

ARMED FORCES PARTICIPATION IN THE 1952 NUCLEAR AND THERMONUCLEAR EXPERIMENTAL DEVICE TESTS

References: a. J.C.S. 1998 Series
b. J.C.S. 2179 Series

THE PROBLEM

1. Letter of Instructions from the Assistant Chief of Staff, G-3, Department of the Army (G-3) 400.112 TS (21 Nov 51), dated 21 November 1951, directed the Commander, Joint Task Force 132 to outline:

a. Organization of the task force designed to conduct the Atomic Energy Commission tests of nuclear and thermonuclear devices in the fall of 1952.

b. Participation of each Service and the Atomic Energy Commission.

c. Command relationships and responsibilities.

d. Fiscal and accounting principles to be employed.

e. Security measures to be employed.

f. Radiological safety provisions.

FACTS BEARING ON THE PROBLEM AND DISCUSSION

2. See Enclosure "A" (Restricted Data).

CONCLUSIONS

3. The proposed 1952 tests of experimental nuclear and thermonuclear devices at Eniwetok are essential to the national defense and security, and appropriate priority thereto should be established within the Services, consistent with the demands imposed by the Korean conflict.

[redacted]

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4. The Joint Task Force Commander and his deputies assisted by their joint staff are capable of performing the detailed planning for operation IVY as was accomplished by the Joint Proof Test Committee for operation GREENHOUSE.

5. Sufficient information is available on the proposed Atomic Energy Commission test plan to warrant dispatch of an operational directive to CJTF 132 directing the detailed planning for and conduct of the tests.

6. Relationships and responsibilities with respect to the task groups of JTF 132 should be defined prior to activation of task groups.

7. The Scientific, Navy and Air Force task groups should be activated not later than 1 January 1952.

8. Assumption of operational control of task groups for planning and coordination only by the commander principally concerned with the conduct of the tests is feasible, and should be effected immediately in order to enable CJTF 132 to develop coordinated effort toward an effective, economical operation.

9. Biomedical, structural and ground military equipment effects programs are inappropriate and uneconomical in this instance because of the laboratory nature of the 1952 Eniwetok tests.

10. The current military situation and the relatively short planning period for IVY require expeditious approval of the basic military support requirements so that planning may proceed on a firm basis.

11. Aspects of this report which are of direct interest to the Atomic Energy Commission should be submitted to the Chairman, Military Liaison Committee in order to obtain the views of the Atomic Energy Commission.

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RECOMMENDATIONS

12. That the Joint Chiefs of Staff:

a. Note the conclusions in paragraphs 3 to 11, inclusive; the general organization outlined in Enclosure "G" and "H"; the proposed fiscal and accounting principles contained in Enclosure "K"; and the proposed special security and radiological safety measures contained in Enclosures "L" and "M", respectively.

b. Approve the relationships set forth in Enclosure "I".

c. Forward the memorandum in Enclosure "B" (with its Appendix), together with Enclosure "I" to the Chairman, Military Liaison Committee to the Atomic Energy Commission.

d. Forward the memoranda in Enclosures "D" (with its Appendix), "E" (with its Appendix), and "F" (with its Appendix), to the appropriate Service Chiefs.

e. Authorize the Chief of Staff, U. S. Army as Executive Agent for the Joint Chiefs of Staff to forward the directive in Enclosure "C" to the Commander, Joint Task Force 132.

f. Consider the experimental tests to be conducted during operation IVY as inappropriate for biomedical, structural, and ground military equipment effects projects; however, basic measurements of blast, thermal radiation and ionizing radiation, both at the surface and at altitudes significant to military aircraft, will probably be included in the military [illegible] program.

g. Authorize JTF 132 to modify the military requirements outlined in this report by direct coordination with the Service involved, in response to subsequent modifications which may be made in the operational concept of the Atomic Energy Commission test plan.

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(Page revised - 25 January 19[redacted]

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ENCLOSURE "A"

FACTS BEARING ON THE PROBLEM AND DISCUSSION

References: a. J.C.S. 1998 Series
b. J.C.S. 2179 Series

NATURE OF THE PROPOSED TESTS

1. The Atomic Energy Commission currently proposes tests of a high yield nuclear device (400-600 KT air-drop shot) and an experimental very high yield thermonuclear device(1-50 Megaton low-platform shot) to be conducted on or about 1 October 1952.

2. The thermonuclear experimental device indicates a possible yield 200 times greater than the largest device previously detonated, and 2,000 times greater than the Hiroshima weapon. Thus, as the magnitude of the IVY tests portends entry into a new era in nuclear-thermonuclear development, it similarly dictates entry into a new phase in precautionary and planning techniques. The potential of these experimental devices creates certain military support problems not introduced in the planning of previous tests.

SPECIAL CONSIDERATIONS INVOLVED

3. The prospective exceptionally high yields will involve:

a. Special precautions to minimize effects of blast, ground shock, heat and contamination by radioactive fall-out on atoll installations.

b. Evacuation of all personnel from the atoll (except the specially protected firing party) during both shots. Reentry into the area is contemplated by D + 5 days after the first shot and D + 15 days after the second shot. Personnel will be quartered aboard ship for a period of 15-45 days.

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c. Substantially more naval surface craft than employed during GREENHOUSE, and may involve the activation of certain vessels from the Navy's Reserve Fleet. This time-consuming process suggests the need for early approval of the projected naval requirements for support of the technical mission.

d. Preparation of an additional plan to reestablish the Task Force at an alternate destination in the event reentry into the atoll is limited or completely barred by unforeseen developments resulting from the detonation of the thermonuclear device.

e. Extensive planning to insure that the double evacuation (and the possible alternate destination landings) are accomplished smoothly and economically.

f. Basing the Air Force Task Group, the Air Operations Center and the Weather Reconnaissance Squadron on Kwajalein, thereby increasing the population congestion on that island.

4. A problem requiring early resolution is the scheduling of effects programs. The 1952 Eniwetok tests are considered to be inappropriate for military effects programs of the broad scope conducted during GREENHOUSE. The laboratory nature of the IVY tests, the limiting of personnel to facilitate evacuation, and the lack of time remaining for the screening and preparation of effects programs, suggest that such programs would be more economically conducted during subsequent nuclear tests. Therefore, it appears advisable that no biomedical, structural or ground military equipment effects programs be conducted during operation IVY.

5. An important consideration involved in supporting the 1952 tests is the manpower and equipment drain created by the Korean action. Since the sources of procurement have been

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reduced, the time necessary to obtain critical materiel, and to screen, security clear, assign and further train required specialists will be increased.

ORGANIZATION MODIFICATIONS AND ACTION INDICATED

6. The organization for Joint Task Force 132 (see Enclosures "G" and "H") is based on the tested organization of Joint Task Force 3, the improvements recommended in the final reports of that Task Force, and the modifications dictated by the nature of the 1952 tests. Although the general organization framework employed during GREENHOUSE has been adopted by the Commander, Joint Task Force 132, modification of task group internal structures will be necessary to facilitate evacuation of the Eniwetok Atoll, and to alleviate the population congestion on Kwajalein.

7. a. An organizational procedure employed during GREENHOUSE that lends itself to modification was disclosed in a post-operation GREENHOUSE report made by the J-3 of Joint Task Force 3:

> "....Task Group 3.1 and Task Group 3.2 came under control of CJTF 3 at a very early date whereas units of Task Group 3.3 were not controlled operationally by CJTF 3 until eight months after JTF 3 had been activated. Units of Task Group 3.4 were operationally controlled by Air Proving Ground until they joined JTF 3 at the port of embarkation. A uniform mark of planning task groups under operational control of the task force commander would be decidedly advantageous."

b. The planning difficulties experienced by Joint Task Force 3 because of lack of operational control of the task groups during the pre-Eniwetok phase of GREENHOUSE should be avoided during operation IVY. This can be accomplished by giving the Commander, Joint Task Force 132 operational control of task groups, for planning and coordination only, during the period prior to movement to the forward area.

[redacted]

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It is not envisaged that such limited operational control will substantially change the buildup procedures employed during GREENHOUSE, affect the operational status of elements within each task group, or curtail Service interests in any manner. It will, however, make the Commander, Joint Task Force 132 more instrumental in phasing the buildup of task groups, and enable him to do business with various task group headquarters without the necessity of going through an agency not solely concerned with the conduct of operation IVY.

c. See Enclosure "I" which illustrates proposed command relationships for task groups.

TIME

8. a. Time is of the utmost importance in the organization of subordinate elements of the Joint Task Force. The aforementioned post-operation GREENHOUSE report indicated that one of the factors which plagued all task groups was their late formation and limited time for preparation for forward area operations. Although the preparation for IVY will be less encumbered by construction of atoll facilities and effects programming, there remains even less time, proportionately, than was afforded in the planning of GREENHOUSE.

b. Expeditious consideration of the above factors and proposals will:

(1) Permit the Commander, Joint Task Force 132 to effect early internal refinements in organization, consistent with the nature of the 1952 tests. This, in turn, will induce prompt procurement and stabilization of personnel and equipment, thereby allowing a timely entry into the training and preparatory phase.

[redacted] /

[redacted] [redacted]

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(2) Provide the Task Force Commander with necessary control of his task groups during the planning stage when coordinated effort is paramount.

(3) Clarify relationships between the Joint Task Force and supporting agencies; and limit control of task groups by agencies not primarily responsible for accomplishment of the mission.

(4) Eliminate time-consuming organizational difficulties incident to this type of joint operation.

(5) Provide adequate time to insure that the basic military support requirements, as projected, are sufficient to support the tests.

9. The immediate missions assigned to the Commander, Joint Task Force 132 in J.C.S. 2179/8 have been accomplished. All planning and organization action that can be undertaken prior to the activation of the Scientific, Navy and Air Force task groups has been initiated or accomplished.

10. The Commander, Joint Task Force 132 estimates that activation and organization of task groups must commence not later than 1 January 1952 in order that an operational date of 1 October 1952 may be met. Any substantial delay in the organization of task groups and fulfillment of support requirements must be compensated by a like delay in test date. For time table for the development phases of Joint Task Force 132, see Enclosure "J".

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ENCLOSURE B

DRAFT

MEMORANDUM FOR THE CHAIRMAN, MILITARY LIAISON COMMITTEE TO THE ATOMIC ENERGY COMMISSION

SUBJECT: FULL SCALE ATOMIC WEAPON TESTS FOR 1952 (ENIWETOK)

Reference: Memorandum for the Secretary, the Joint Chiefs of Staff, from Chairman, Military Liaison Committee to the Atomic Energy Commission, Subj: "Full Scale Weapons Test for 1952", dated 13 Nov 51

1. The Joint Chiefs of Staff concur in the general plan proposed by the Atomic Energy Commission to test the thermonuclear device in the fall of 1952. For planning purposes it is assumed that the high yield fission device (400-500 KT) will be available for test during the same period. It is pointed out that little additional military support will be required to test the latter device if it is available for test at the same time as the thermonuclear device.

2. The accelerated research developments of the Atomic Energy Commission lend urgency to the early activation of task groups so that direct operational planning can be coordinated between the Commander, Joint Task Force 132 and the several task groups. Accordingly, the Joint Chiefs of Staff recommend that Commander, Joint Task Force 132 activate the Scientific Task Group (Task Group 132.1) at the earliest practicable date. It is further recommended that the Atomic Energy Commission designate a full time individual as the Joint Task Force Deputy Commander for Scientific Matters.

3. It is contemplated that the Scientific Task Group will perform the following missions:

a. Prepare, arm and detonate the experimental nuclear and thermonuclear devices.

[redacted]

[redacted]

[redacted]

[redacted]

b. Prepare for and conduct the technical and measurement programs as finally approved.

c. Plan and construct all facilities and installations involved in the testing and instrumentation of the proposed detonations.

d. Operate and maintain bases and laboratory facilities on the islands of Eniwetok Atoll, except Eniwetok Island, and operate and maintain laboratory facilities and specified utilities on Eniwetok Island.

4. Attached hereto as Appendix* is a proposed directive to Commander, Joint Task Force 132 regarding activation of and relationships with the Scientific Task Group, which the Joint Chiefs of Staff plan to issue subsequent to the concurrence of the Atomic Energy Commission. It is requested that you obtain the concurrence of the AEC in the proposed directive in the Appendix.

*Appendix to this Enclosure

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APPENDIX

TO ENCLOSURE B"

DRAFT

MEMORANDUM FOR THE COMMANDER, JOINT TASK FORCE 132

SUBJECT: FULL SCALE ATOMIC WEAPONS TESTS FOR 1952 (ENIWETOK)

1. The Joint Chiefs of Staff have approved and the Atomic Energy Commission has concurred in this directive covering activation and operational procedures for the Scientific Task Group to operate under the Commander, Joint Task Force 132 in support of operation IVY.

2. This will confirm any actions which you have taken relative to activation of the Scientific Task Group, pursuant to the authority contained in SM-3120-51, dated 27 December 1951.

3. Upon activation, the Scientific Task Group will come under operational control of the Commander, Joint Task Force 132 for planning and coordination only. Complete operational control of the Scientific Task Group will be assumed by the Commander, Joint Task Force 132 when movement to the test site becomes imminent, and as mutually arranged between the Commander, Joint Task Force 132 and the Atomic Energy Commission.

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ENCLOSURE C

DRAFT

MEMORANDUM FOR THE COMMANDER, JOINT TASK FORCE 132

SUBJECT: FULL SCALE ATOMIC WEAPONS TESTS FOR 1952 (ENIWETOK)

1. The Joint Chiefs of Staff have approved the recommendations contained in the report by the Commander, Joint Task Force 132 on "Armed Forces Participation in the 1952 Nuclear and Thermonuclear Experimental Device Tests," dated 1 December 1951, as amended 25 and 28 January 1952.

2. The mission of Joint Task Force 132 is:

a. To prepare for and conduct tests of an experimental high yield nuclear device and an experimental very high yield thermonuclear device, commencing on or about 1 October 1952.

b. To prepare for and conduct the experimental measurements proposed by the Atomic Energy Commission, and such other tests proposed by the Army, Navy and Air Force (and other interested agencies) as subsequently may be approved by the Joint Chiefs of Staff.

3. You may at your discretion, and within limitation of the funds made available to you therefor, include such other experiments consistent with the approved program which do not jeopardize the scope thereof, and you may delete experiments which subsequently may prove undesirable or not feasible. Deletions and significant modifications of approved armed services tests will be brought to the attention of the Armed Forces Special Weapons Project.

4. You are directed to integrate into Joint Task Force 132 such units and personnel as are made available by the Chief of Staff, U.S. Army, The Chief of Naval Operations, The Chief of Staff, U.S. Air Force, and the Atomic Energy Commission.

5. You will assume operational control of the Naval Task Group and the Air Force Task Group upon their activation, for planning and coordination only. Complete operational control

[redacted]

[redacted] will be assumed by you when movement of the task groups to the test site becomes imminent, and as mutually arranged between you and the Service concerned. It is contemplated that the same instructions will pertain to the Scientific Task Group; however, detailed instructions will be forwarded to you at such time as the Atomic Energy Commission has opportunity to comment on this proposal.

6. As modifications are made in the operational concept of the tests, you are authorized to modify the military support requirements approved in the report referred to in paragraph 1 above, through direct coordination with the Service involved.

7. Your attention is invited to Decision of the Joint Chiefs of Staff on 13 April 1951 (J.C.S. 2179/3), which provides that the Commander, Joint Task Force will report to the appropriate Commander under the Joint Chiefs of Staff (CINCPAC) for movement control, logistical support, and for the purpose of general security with respect to the task force and Eniwetok Atoll.

8. You will keep the Joint Chiefs of Staff informed of your progress and you will submit a report of the activities of Joint Task Force 132 upon completion of operation IVY.

9. Direct communication is authorized with the Chiefs of the three Services, CINCPAC, other commanders of unified commands, the Atomic Energy Commission, Armed Forces Special Weapons Project, and other agencies instrumental in the proposed tests, on matters pertaining to the implementation of the plan contained in the report referred to in paragraph 1 above.

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ENCLOSURE "D"

DRAFT

MEMORANDUM FOR THE CHIEF OF STAFF, UNITED STATES ARMY

SUBJECT: FULL SCALE ATOMIC WEAPONS TESTS FOR 1952 (ENIWETOK)

References: (a) JCS 2179/15

(b) JCS 2179/18

1. The Joint Chiefs of Staff have approved the recommendations contained in J.C.S. 2179/15, as amended by J.C.S. 2179/18, regarding organization and operational procedures for Joint Task Force 132 and the Army Task Group (Task Group 132.2) in support of the experimental nuclear and thermonuclear device tests to be conducted at Eniwetok during the fall of 1952, under the code name IVY.

2. The following support will be required from the Department of the Army and should be made available as required by the Commander, Joint Task Force 132:

a. The Army complement of Headquarters, Joint Task Force 132:

Estimated Strength	
30 Officers	30 Enlisted Men

b. The Army complement of Task Group 132.1 (Scientific Task Group):

Estimated Strength	
15 Officers	25 Enlisted Men

c. The Army complement of the Radiological Safety Task Unit of the Scientific Task Group:

Estimated Strength	
7 Officers	2 Enlisted Men

d. The Army complement of the Documentary Photographic Task Unit of the Scientific Task Group:

Estimated Strength	
1 Officer	9 Enlisted Men

e. Army personnel, services and equipment necessary to meet the Army support requirements for the Army Task Group

[redacted]

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as projected in the attached Appendix*.

f. Equipment, materiel and services for support of the Joint Staff and Army elements of the Task Force.

g. Such additional personnel, materiel and services necessary for the purpose of obtaining measurement data as may be required by the three Services and as finally approved by the Joint Chiefs of Staff; and as may be required by subsequent modification of the Atomic Energy Commission test plan.

3. Inasmuch as tests will be concerned principally with the devices themselves, will involve little effects programming, and will require amphibious evacuation of the Task Force during firing, support requirements upon the three Services have been kept at an operational minimum. In this connection, the Commander, Joint Task Force 132 has been designated to monitor organizational structures for military elements of the Task Force.

4. It is considered desirable that suitable priorities be established to insure early implementation of operation IVY within the specified time limitation.

5. Command relationships will be as indicated in Enclosure "I" of the Report by the Commander, JTF 132, attached to the Enclosure to J.C.S. 2179/15.

*Appendix to this Enclosure

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APPENDIX

TO ENCLOSURE "D"

DRAFT

ARMY TASK GROUP MISSIONS AND ESTIMATED ARMY REQUIREMENTS

1. The Army Task Group will perform the following missions which are estimated to require the forces indicated.

a. Army Task Group Headquarters

Headquarters	8 Officers	6 Enl. Men
Adjutant General	4 Officers	28 Enl. Men
Special Services	1 Officer	3 Enl. Men
Finance	3 Officers	7 Enl. Men
Hq Commandant	1 Officer	20 Enl. Men
TOTAL	17 Officers	64 Enl. Men

b. Operation of Base Facilities

Engineer	2 Officers	33 Enl. Men
QM (incl. mess pers)	5 Officers	201 Enl. Men
Medical	4 Officers	33 Enl. Men
Ordnance	2 Officers	44 Enl. Men
Signal	9 Officers	134 Enl. Men
TOTAL	22 Officers	445 Enl. Men

c. Physical Security

*Military Police Sv Co (T/O&E 19-500) Incls. CIC Det. 1 officer & 4 Enlisted Men	13 Officers	200 Enl. Men
*Counter Intelligence Detachment	2 Officers	10 Enl Men
TOTAL	15 Officers	210 Enl. Men

d. Signal Security

Army Security Agency Command Det Group (T/O&E 32-500)	7 Officers	34 Enl. Men
TOTAL	7 Officers	34 Enl. Men

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e. Port Operations

*Hq Port Battalion (T/O&E 55-116)	3 Officers	6 Enl. Men
*Transportation Port Co. Type "A" (T/O&E 55-117)	5 Officers	159 Enl. Men
TOTAL	8 Officers	165 Enl. Men

f. Transportation

*Truck Co., Light (T/O&E 55-17)	5 Officers	106 Enl. Men
TOTAL	5 Officers	106 Enl. Men

g. Radiological Safety

Instructor personnel for training of Task Group 132.2 in RadSafe matters	1 Officer	2 Enl. Men
TOTAL	1 Officer	2 Enl. Men

2. Total estimated strength of the Army Task Group is 75 Officers and 1,028 Enlisted Men.

3. Total estimated strength of all Army elements of the Joint Task Force which includes the Task Force Headquarters, and Scientific Task Group is 128 Officers and 1,094 Enlisted Men.

*Less certain administrative and overhead personnel

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ENCLOSURE E

DRAFT

MEMORANDUM FOR THE CHIEF OF NAVAL OPERATIONS

SUBJECT: FULL SCALE ATOMIC WEAPONS TESTS FOR 1952 (ENIWETOK)

References: a. J.C.S. 2179/3

b. J.C.S. 2179/15

c. J.C.S. 2179/18

1. The Joint Chiefs of Staff have approved the recommendations contained in J.C.S. 2179/15 as amended by J.C.S. 2179/18, covering buildup of Joint Task Force 132, and activation and operational procedures for the Naval Task Group (Task Group 132.3) in support of the experimental nuclear and thermonuclear device tests to be conducted at Eniwetok during the fall of 1952, under the code name IVY.

2. The following naval forces, services and equipment will be required and should be made available as required by the Commander, Joint Task Force 132:

a. The naval complement of Headquarters, Joint Task Force 132:

Estimated Strength

25 Officers 25 Enlisted Men

b. The naval complement of Task Group 132.1 (Scientific Task Group):

Estimated Strength

12 Officers 19 Enlisted Men

c. The naval complement of the Radiological Safety Task Unit of the Scientific Task Group:

Estimated Strength

6 Officers 2 Enlisted Men

d. Navy personnel, services, and equipment necessary to constitute the headquarters of the Naval Task Group (Task Group 132.3 on or about 1 January 1952.

[redacted]

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[redacted]

e. Naval forces, services and equipment necessary to constitute and support the Naval Task Group (Task Group 132.3), and to support the technical aspects of the tests, as projected in the attached Appendix.*

f. Marine Corps detachments for guard and security duties, as required, for the command ship and weapons assembly ship.

g. Base facilities on Kwajalein to support approximately 1,700 Air Force personnel and approximately 30 multi-engine aircraft (C-54's, B-50's, B-29's), to include POL and aircraft operational and maintenance facilities.

h. Additional naval services necessary for the purpose of obtaining measurement data as may be required by the three Services and as finally approved by the Joint Chiefs of Staff; and as may be required by subsequent modification of the Atomic Energy Commission test plan.

3. Inasmuch as tests will be concerned principally with the experimental devices themselves, will involve little effects programming, and require personnel evacuation of the Eniwetok Atoll during firing of both devices, support requirements upon the three Services have been kept at an operational minimum. In this connection, the Commander, Joint Task Force 132 has been designated to monitor organizational structures for military elements of the Task Force.

4. Upon activation, Task Group 132.3 will come under operational control of the Commander, Joint Task Force 132, for planning and coordination only. Complete operational control will be assumed by the Commander, Joint Task Force 132 when movement of the Task Group to the test site becomes imminent, and as mutually arranged between the Commander, Joint Task Force 132 and the Chief of Naval Operations.

5. In accordance with the Decision of the Joint Chiefs of Staff on 13 April 1951 (JCS 2179/3), the appropriate Commander under the Joint Chiefs of Staff (CINCPAC) is responsible for the general se-

* Appendix to this Enclosure.

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curity of the Eniwetok Danger Area and will provide the necessary naval forces therefor.

6. It is considered desirable that suitable priorities be established to insure early implementation of this memorandum and the successful completion of operation IVY within the specified time limitation.

7. Command relationships will be as indicated in Enclosure "I" of the report by the Commander, JTF 132, attached to the Enclosure to J.C.S. 2179/15.

[redacted]

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APPENDIX

TO ENCLOSURE E

DRAFT

NAVAL TASK GROUP MISSIONS AND ESTIMATED NAVAL REQUIREMENTS

1. The nature and yield of devices to be tested will require complete evacuation of the Eniwetok Atoll (with exception of firing party) during the shot periods. The primary mission of the Naval Task Group will be support of the Task Force afloat and during the evacuation and re-entry phases. This mission will entail provision of the following:

a. A suitable command ship equipped with helicopter platform, adequate communications, air plot facilities and small boats for use by the Task Force Commander and staff. It is believed that an AGC will best meet this requirement.

b. Suitable ships to meet the following requirements:

(1) Berthing and messing for approximately 970 civilians, 330 officers, and 1600 enlisted personnel during the first shot.

(2) Evacuation of approximately 275 civilians, 40 officers, and 310 enlisted men between the first and second shots.

(3) Berthing and messing for approximately 695 civilians, 290 officers and 1290 enlisted men during the second shot.

c. Five (5) helicopters (HUP-2) for rapid re-entry after shots, for radiological monitoring and for collection and transfer of samples to aircraft carrier.

d. One CVE to provide:

(1) Platform for five (5) helicopters.

(2) Four (4) aircraft for immediate ferrying of samples to Kwajalein. Remaining space and facilities of this ship may be utilized by the security force.

e. The USS CURTISS for transport and assembly of the de-

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vices and to serve as flagship for CTG 132.3. This vessel should be equipped with two 40' motor launches for the Task Force boat pool.

f. Firing party will be accommodated on a ship of the security forces in the event bunker accommodations ashore prove impractical.

2. The following additional naval equipment will be required for use as indicated:

a. Sufficient small craft for operation of two boat pools; one for the Task Force and the other for the AEC contractors. Number and types are as follows:

	Minimum Required	Now on Hand	Addit'l Required
AVR (Rescue Boats)	2	1	1
LSU	10	7	3
LCM	34	21	13
LCP (L)	4	0	4
AFDL (Aux Floating Dock)	1	1	0
YC (500 ton open lighter)	4	4	0
YTL (Harbor tug)	2	2	0
Water Taxi	3	3	0
TOTAL	60	39	21

b. Three (3) LST's; one to ferry personnel, equipment and supplies to the Weather Islands - two to serve as floating machine shops for support of the Shot Islands during the construction phase.

c. An LSD to serve as mother ship for the boat pools.

d. Two (2) PBM-5A airplanes for logistical support of weather islands and for the collection of water samples at outer atolls after shots.

e. Suitable auxialiary barges for fuel and water storage to support reentry.

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ENCLOSURE F

DRAFT

MEMORANDUM FOR THE CHIEF OF STAFF, UNITED STATES AIR FORCE

SUBJECT: FULL SCALE ATOMIC WEAPONS TESTS FOR 1952 (ENIWETOK)

References: a. J.C. S. 2179/15

b. J.C.S. 2179/18

1. The Joint Chiefs of Staff have approved the recommendations contained in J.C.S. 2179/15, as amended by J.C.S. 2179/18, covering buildup of Joint Task Force 132, and activation and operational procedures for the Air Force Task Group (Task Group 132.4) in support of the experimental nuclear and thermonuclear device tests to be conducted at Eniwetok during the fall of 1952, under the code name of IVY.

2. The following Air Force troops, services and equipment will be required and should be made available as required by the Commander, Joint Task Force 132:

a. The Air Force complement of Headquarters, Joint Task Force 132:

Estimated Strength

25 Officers 25 Enlisted men

b. The Air Force complement of Task Group 132.1 (Scientific Task Group):

Estimated Strength

12 Officers 21 Enlisted Men

c. The Air Force complement of the Radiological Safety Task Unit of the Scientific Task Group:

Estimated Strength

7 Officers 2 Enlisted Men

d. The Air Force complement of the Documentary Photographic Task Unit of the Scientific Task Group (this is an

[redacted]

[redacted]

augmentation of Lookout Mountain Laboratory Personnel requirements projected in attached Appendix*:

Estimated Strength

1 Officer 9 Enlisted Men

e. Air Force personnel, services and equipment necessary to constitute the headquarters of the Air Force Task Group (Task Group 132.4) on or about 1 January 1952:

Estimated Strength

47 Officers 82 Airmen

f. Air Force personnel, services and equipment necessary to constitute and support the Air Force elements of the Task Force, and to support the technical aspects of the tests. For details see attached Appendix*.

Estimated Strength

274 Officers 1688 Airmen

Estimated Aircraft

4	C-54
2	B-50
10	B-47
15	L-13
3	Helicopters
1	SB-17
1	SA-16

g. "Q" cleared agents of the Office of Special Investigation (OSI), to be available as required from the Hawaii OSI Detachment on an "on call" basis to the Commander, Joint Task Force 132.

h. Additional personnel, aircraft, and equipment necessary for the purpose of obtaining measurement data as may be required by the three Services and as finally approved by the

* Appendix to this Enclosure

[redacted]

[redacted]

Joint Chiefs of Staff; and as may be required by subsequent modification of the Atomic Energy Commission test plan.

3. Inasmuch as tests will be concerned principally with the test devices themselves, and will involve little effects programming, support requirements upon the three Services have been kept at an operational minimum. In this connection, the Commander, Joint Task Force 132 has been designated to monitor organizational structures for military elements of the Task Force.

4. Upon activation, Task Group 132.4 will come under operational control of the Commander, Joint Task Force 132 for planning and coordination only. Complete operational control will be assumed by the Commander, Joint Task Force 132 when movement to the test site becomes imminent, and as mutually arranged between the Commander, Joint Task Force 132 and the Chief of Staff, U. S. Air Force.

5. It is considered desirable that suitable priorities be established to insure early implementation of this memorandum and the successful completion of Operation IVY within the specified time limitation.

6. Command relationships will be indicated in Enclosure "I" of the report by the Commander, JTF 132, attached to the Enclosure to J.C.S. 2179/15.

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

APPENDIX

TO ENCLOSURE F

DRAFT

AIR FORCE TASK GROUP MISSIONS AND ESTIMATED AIR FORCE REQUIREMENTS

1. The missions and estimated personnel and aircraft requirements of the Air Force Task Group are outlined in the following subparagraphs:

a. Headquarters, Task Group 132.4.

(1) Mission: To provide a Command and Staff capability for the Air Force Task Group.

(2) Estimated personnel requirements: 47 Officers, 82 Airmen.

b. Test Support

(1) Mission:

(a) To provide administration for Task Group Headquarters.

(b) To establish and/or augment air base and support services and facilities at Eniwetok and Kwajalein for the operation and maintenance of TG 132.4 aircraft.

(c) To furnish administrative support aircraft for Task Group 132.4 requirements including documentary photo requirements.

(d) Provide aircraft and personnel decontamination services and facilities at Kwajalein.

(e) To furnish intra-atoll airlift at Eniwetok.

(f) To provide necessary documentary photographic services.

(g) To augment existing housekeeping services and facilities at Eniwetok and Kwajalein in support of Task Group 132.4.

(2) Estimated Personnel Requirements.

(a) Totals: 94 Officers, 677 Airmen

[redacted]

[redacted]

[redacted]

[redacted]

	KWAJALEIN		ENIWETOK		TOTAL	
	Off	Amn	Off	Amn	Off	Amn
COMMAND	2	1	2	1	4	2
ADMINISTRATION	5	23	2	10	7	33
OPERATIONS	16	50	4	79	20	139
SUPPLY	5	[illegible]1	3	34	8	95
MAINTENANCE	3	117	-	-	3	117
LIAISON UNIT	-	-	20	50	20	50
[illegible]	3	195	-	-	3	195
[illegible] LABORATORY [illegible] PHOTO	24	6	-	-	24	6
[illegible] STATION	4	20	-	-	4	20
TOTAL	62	503	31	174	94	677

(3) Estimated Aircraft Requirements.

(a) 4 C-54s for administrative support and photo.

(b) 15 L-13s, 3 Helicopters for intra-atoll airlift.

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NOTE: No provision for a Minimum Individual Training (MIT) program is included in aircraft requirements.

[illegible] Test Aircraft Unit Provisional

(1) ~~Mission.~~ To operate and instrument test and drop aircraft consistent with AEC test requirements as follows:

(a) To provide A minimum of 12 cloud sampling aircraft airborne in the target area for from 1 to 3 hours during each shot at altitudes from 43,000 to 46,000 feet.

(b) To conduct an air drop of a nuclear device.

C. To provide [illegible]

~~(2) Estimated Personnel Requirements.~~

(a) Totals 50 Officers, 345 Airmen. (KWAJALEIN)

(3) Estimated Aircraft Requirements.

(a) 15 B-47 Cloud Samplers

(b) 2 B-50 Drop Aircraft

C- To provide [illegible]

D. Airborne control [illegible]

[illegible] APPENDIX [illegible] EXHIBIT "F"

[redacted]

[redacted]

[redacted]

d. Test services.

(1) Mission.

(a) To provide Weather Service at Eniwetok and Kwajalein, and at Ponape, Majuro, Bikini and Kusaie.

(b) To establish and operate weather centrals at Ferry Island and aboard the [redacted].

(c) To conduct weather reconnaissance and to operate and maintain necessary weather reconnaissance aircraft.

(d) To provide and/or augment communications services ~~to include control tower, airways, point to point, weather collection and command communications~~ at Kwajalein, Eniwetok and the weather island stations.

(e) To provide air rescue service in the Marshall Islands area.

(2) Estimated Personnel Requirements.

	KWAJALEIN		ENIWETOK		OTHER		TOTAL	
	Off	Amn	Off	Amn	Off	Amn	Off	Amn
COMMAND	2	2	2	8	-	-	4	10
WEATHER RECONNAISSANCE	60	292	-	-	-	-	60	292
WEATHER CENTRAL	4	11	12	58	*12	60	28	129
COMMUNICATIONS	2	75		115	-	-	5	190
AIR RESCUE	9	14	-	-	-	-	9	14
TRAFFIC	2	5	2	5	-	-	4	10
TOTAL	99	399	19	186	12	60	130	645

* Weather Island Stations.

(3) Estimated Aircraft Requirements.

(a) 12 WB-29s Weather Reconnaissance

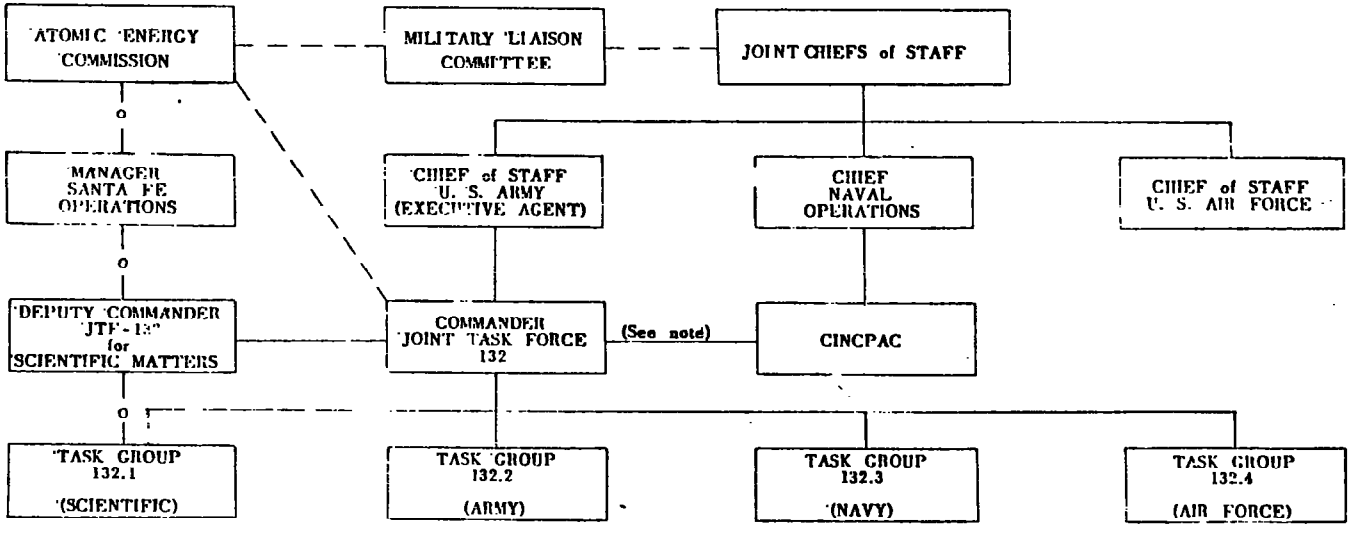
(b) 1 SB-17 Air Rescue

(c) 1 SA-16 Air Rescue

[redacted] /

[redacted]

GENERAL ORGANIZATION FOR OPERATION IVY



LEGEND:

———— OPERATIONAL CONTROL

— — — — LIAISON

——— O ——— AEC POLICY

NOTE:

By decision of JCS on 13 April 1951 (JCS 2179/3), the Commander, Joint Task Force will report to the appropriate Commander under the JCS (CINCPAC) for movement control, logistical support, and for the purpose of general security with respect to the Task Force and Eniwetok Atoll.

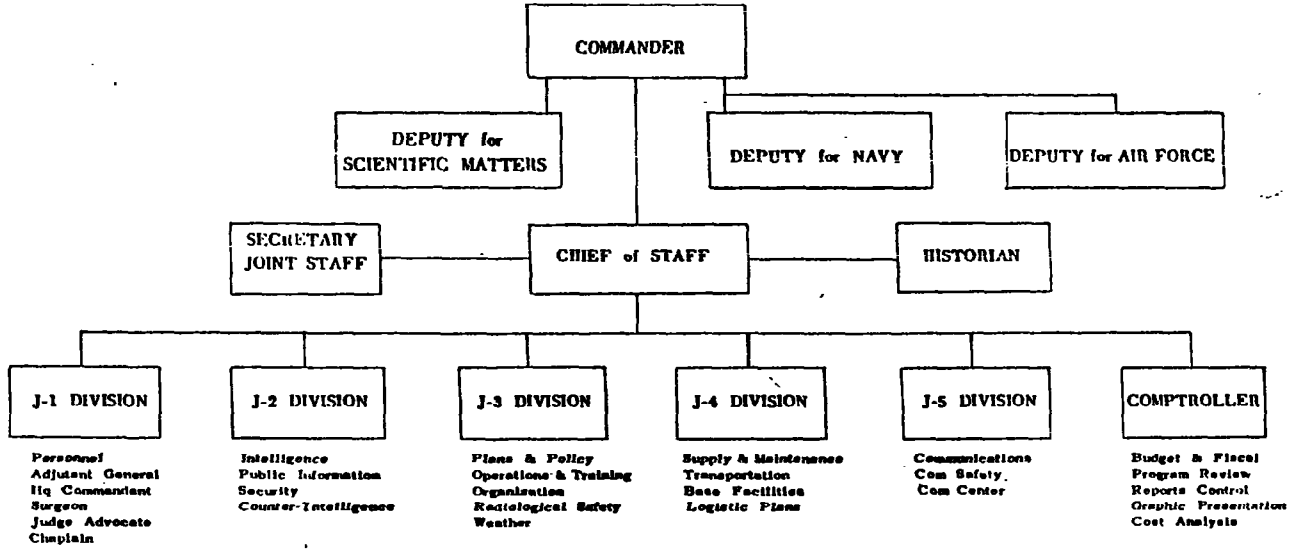
ESTIMATED TOTAL PERSONNEL REQUIREMENTS

	ARMY		NAVY*		AIR FORCE		SCIENTIFIC
	Off.	E.M.	Off.	E.M.	Off.	E.M.	
HQ, JTF 132	30	30	25	25	25	25	1
TG 132.1	23	36	18	21	20	32	450**
TG132.2	75	1,028	-	-	-	-	-
TG132.3	-	-	400	4,500	-	-	-
TG132.4	-	-	-	-	321	1,770	-
TOTALS	128	1,094	443	4,546	366	1,827	451

*These figures denote Navy personnel required by JTF 132 for conduct of the technical mission and support thereto. Not included is the Navy requirement for general area security of Eniwetok DANGER AREA, the Navy forces for which are to be provided by CINCPAC per JCS 2179/3, approved by JCS on 13 April 1951.

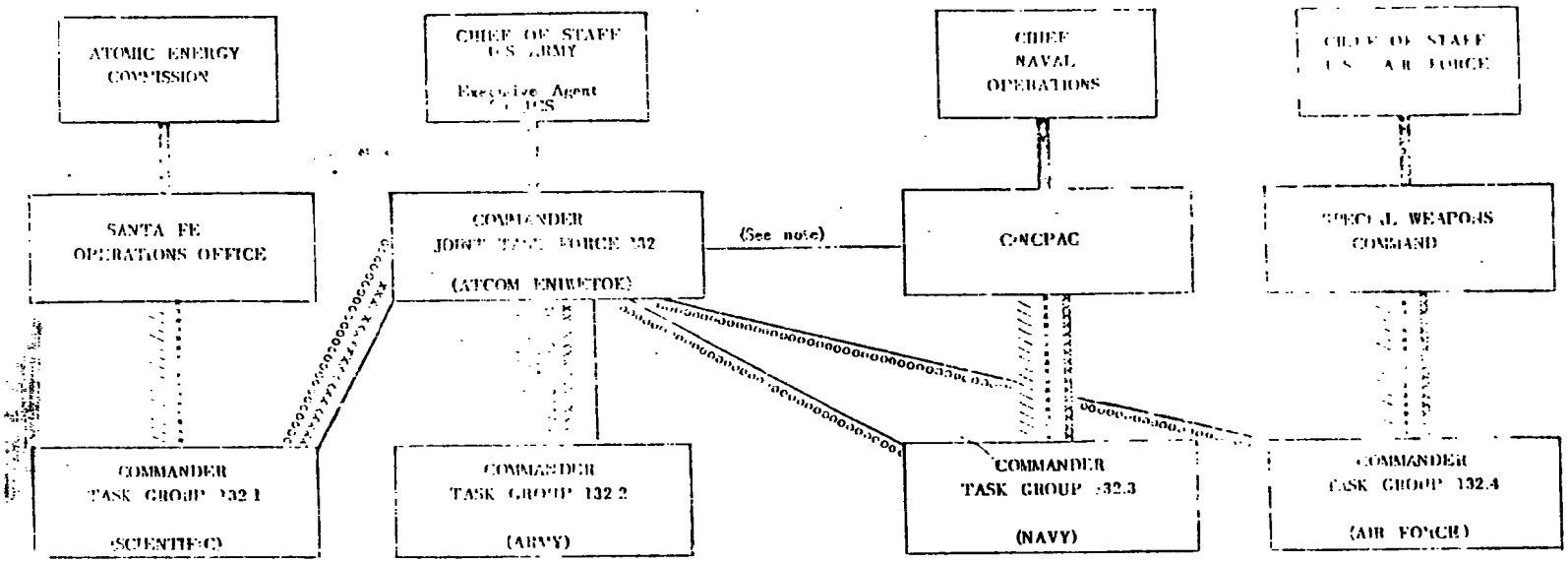
** Augmented by approximately 800 AEC construction personnel.

HEADQUARTERS, JOINT TASK FORCE 132



ESTIMATED MILITARY PERSONNEL REQUIREMENTS HQ. JTF 132

	TOTAL REQUIRED	
	OFFICERS	E. M.
ARMY	30	30
NAVY	25	25
AIR FORCE	25	25

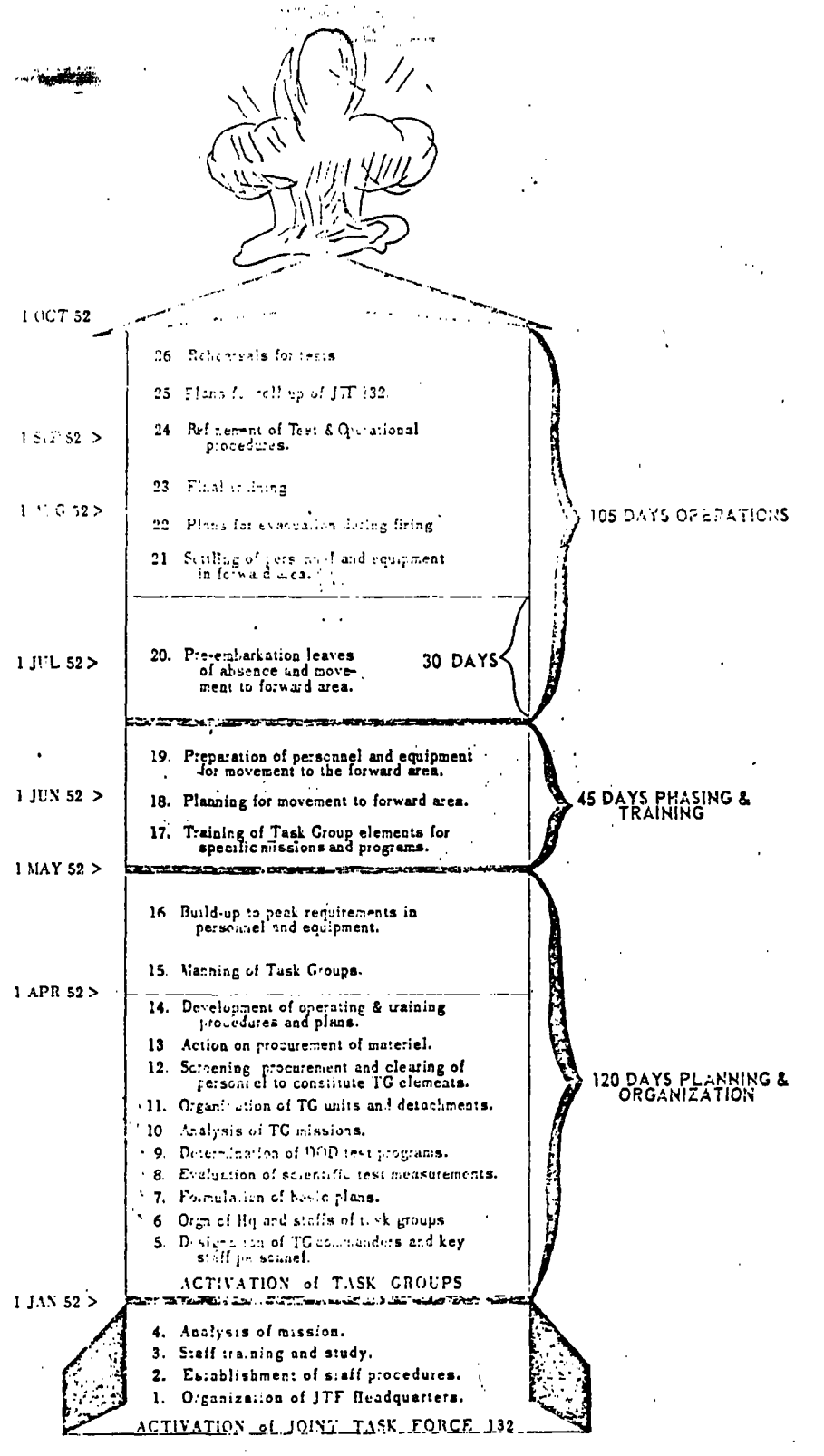


ACTIVATION	xxxxxxxxxxxxxx	(Publication of Activation Orders)
ADMINISTRATIVE CONTROL	oooooooooooooo	(Does not include personnel administration for TGs 132.3 and 132.4. These two TGs remain under their respective commands for personnel administration)
BUILDUP OF TASK GROUPS	----------	(Organizing, manning, assignment and attachment of units, and procurement of equipment)
OPERATIONAL CONTROL	————————	(For plans and coordination only, until movement to forward area. Thereafter, CJTF 132 has full control)
TRAINING	//////////////////	(Organizational and special training required to perform mission)

NOTE

By decision of JCS on 13 April 1951* the Commander, Joint Task Force will report to the appropriate Commander under the JCS, (CINCPAC), for movement control, logistical support, and for the purpose of general security with respect to the Task Force and Eniwetok Atoll. In the absence of the Task Force Commander from the Eniwetok area, the senior Task Force Unit Commander present, will, as atoll Commander, report to CINCPAC for those purposes.

* J.C.S.-2179/3



TIME-TABLE
OPERATION IVY

Enclosure "J"

[redacted]

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ENCLOSURE "K"

FISCAL AND ACCOUNTING PRINCIPLES

ALLOCATIONS OF COSTS

1. It is envisaged that the costs incurred and to be incurred in connection with the operations of Joint Task Force 132 be borne as follows:

a. In general, the Atomic Energy Commission (AEC) will bear all costs of construction of facilities at Eniwetok Atoll, which are required by the AEC for support of the tests. Similarly, the Armed Forces will bear all costs of activities which are of primary interest to the Armed Forces. The Allocation of major costs arising from future projects not covered by this agreement will be the subject of further agreements between the AEC and the Armed Forces.

2. The following are examples of the costs to be borne by the AEC:

a. Construction, including labor, of semi-permanent facilities on Eniwetok Island, Parry Island, Japtan Island, photographic sites and shot islands except that such construction equipment and base facility equipment as is available from Armed Forces stock will be furnished by Armed Forces.

b. Costs of maintaining the facilities within the atoll prior to and after the completion of tests except those facilities occupied by the permanent military garrison.

c. Cost of all equipment, supplies, and material purchased by the Armed Forces at the specific request of the AEC.

d. Cost of all modifications of material and equipment when such modifications are made at the request of the AEC.

e Cost of operating and maintaining military equipment provided for the use of the AEC and its contractors.

[redacted] /

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[redacted]

[redacted]

f. All normal AEC administrative expenses, including salaries, subsistence, per diem, etc., of personnel employed or contracted for by the AEC and its contractors in connection with the project, except that transportation to and from the Zone of Interior will normally be provided by the Armed Forces by utilization of regularly scheduled transportation means. In event special transportation, such as chartered aircraft, is necessary to meet AEC requirements, the AEC will bear the cost.

g. Cost of expendable supplies furnished the AEC and its contractors from military stocks.

h. All costs of experimental projects of primary interest to the AEC.

i. Packing, handling, and crating charges of Armed Forces materiel and equipment requested by the AEC.

3. The following are examples of the costs to be borne by the military departments:

a. The costs of all equipment, materials, and supplies furnished by the Armed Forces except for the equipment, materials and supplies purchased at the specific request of the AEC and expendable supplies furnished AEC and its contractors, from military stocks.

b. Transportation of all personnel, equipment, materials and supplies, except as provided in paragraphs 2 f and i, above.

c. Operations of all Armed Forces components assigned to Joint Task Force 132.

d. Pay, subsistence and per diem of personnel, both civilian and military, employed by the Armed Forces with the exception of those Armed Forces civilian employees under contract to the AEC and its contractors.

e. All costs of experimental projects of primary interest to the Armed Forces.

4. Costs of projects of mutual interest to two or more participants will be pro-rated in proportion to the degrees of inter-

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[redacted]

[redacted]

est. The decisions for the interpretation or allocations of specific costs, in accordance with the above agreement, will be the responsibility of the Commander, Joint Task Force 132.

COST ACCOUNTING PRINCIPLES

5. The Commander, Joint Task Force 132 shall specify the programs, projects and sub-projects for which cost data are required.

6. The programs, projects and sub-projects will be clearly defined so that the costing can be determined by the Commander, Joint Task Force 132.

7. The cost data to be furnished by AEC and the three participating military departments will be based on uniform principles established by the Commander, Joint Task Force 132.

8. Each agency or department will report monthly all capital and operating costs by programs, projects and sub-projects. Each of the participating agencies or departments will submit their cost data, in prescribed form, to the Commander, Joint Task Force 132 so that a consolidated report can be made therefrom.

FUNDING PRINCIPLES

9. For the purpose of facilitating the most economical and efficient operation of IVY, funding will be by Department of the Army appropriations.

10. Funding responsibilities for this operation pertaining to the Department of Defense will be assigned to the Commander, Joint Task Force 132 under such regulations as prescribed by The Secretary of Defense.

11.. The division of funding between the military departments and the Task Force will follow substantially the outline of the

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ENCLOSURE 'L'

SECURITY MEASURES

1. Subject to special security measures which may be required as a result of a change in the international situation the following security measures are planned:

a. Public relations: Public releases will be held to a minimum and all releases made will be in consonance with current security policies. No releases will be made by the Task Force without the approval of the Department of Defense and the Atomic Energy Commission.

b. Classification, Declassification: Classification or declassification of Restricted Data will remain the responsibility of the AEC.

c. Official Observers: Official observers will be kept at a minimum and will be selected on a basis of "need to know."

d. Photography: All unofficial photography will be prohibited.

e. Movement of Weapons Components: Weapons components will be moved with appropriate escort and security precautions. The AEC will be responsible for the movement to shipside or planeside. (POE or PAE).

f. Security of Area: In accordance with the Decision of JCS, (J.C.S. 2179/3), the appropriate Commander under the Joint Chiefs of Staff, (CINCPAC) is responsible for the general security of the closed area and the danger area and will provide the necessary naval forces therefor.

g. Increased Air and Sea Protection: During periods when the Atoll is evacuated of personnel, air and sea protection and surveillance will be intensified.

h. Access of Personnel: All military and civilian personnel on the Atoll stationed north of Parry Island or wh[illegible] as

[redacted] / - 38 - Enclosure 'L'

[redacted]

require their presence north of Ferry will have either AEC "Q" Clearance or Military Top Secret clearance. (Distinctive badges will indicate type of clearance). Access to Exclusion Areas and Operational Islands will be limited to "Q" cleared individuals whose duties require their presence in these areas.

i. Communications Security. A communications security plan along the lines recommended in the operation GREENHOUSE Report will be employed.

j. Security Forces. The following forces will be used to maintain security in the Eniwetok Area:

(1) Military Police Unit of 15 officers and 200 enlisted men.

(2) An Army CIC detachment of 2 officers and 10 agents.

(3) An Army CID detachment of 1 officer and 4 agents.

(4) A request will be made to the Air Force to utilize, as necessary, the services of the Hawaii Office of Special Investigation, (OSI). This will necessitate augmenting the Hawaii office by 4 "Q" cleared Agents.

(5) Marine Guards as required for the AGC, the CVE and the AV.

k. No Army combat units will be utilized for the security mission on the Atoll as the entire operating garrison will be organized and trained as a defense force.

[redacted]

[redacted]

APPENDIX [illegible]

[illegible] SAFETY

1. Yields of the [illegible] devices to be tested are such that extra precautions [illegible] necessary to insure proper safety to Joint Task Force [illegible], and [illegible] the population [illegible] bordering the Eniwetok Danger Area. The scope of test operations is such that in carrying out maximum safety measures an [illegible] of Eniwetok Atoll is required for each shot. The [illegible] will be complete except for the firing party who will [illegible] in an a bunker building protected from blast, heat and radioactive fall-out on Parry Island.

2. Radiological safety (radsafe) of all military and civilian personnel is a command responsibility. The chief radsafe officer, attached to the headquarters staff of the Joint Task Force, has the responsibility for advising the Task Force Commander on measures necessary to insure the radiological safety of personnel who may be affected by the tests. The major technical radsafe unit for Joint Task Force 132 will be in the Scientific Task Group (Task Group 132.1). This radsafe unit will [illegible] approximately twenty (20) monitors. [illegible] Air Force [illegible] will [illegible] officers and the [illegible] Task [illegible].

3. [illegible] are afloat, radiological safety of [illegible] will [illegible] function of the individual ship's radsafe [illegible], subject to instructions of the Task Force Commander [illegible] Task Group Commander.

[redacted]

[redacted]

[redacted]

[redacted]

4. When radsafe conditions permit, the post-shot reentry into the atoll will be accomplished on order of the Task Force Commander. The radsafe conditions of the atoll land and water area will have been checked by rapid airborne radiological surveys and by remote readings of radiac instruments installed on various islands of the atoll. Additional radiological information will be transmitted to the bunker building control site. Relays of this information, surveys of the local beta-gamma and alpha contamination at the bunker site, plus extensive ocean area air reconnaissance out to 1,000 miles in the significant quadrant from the atoll, will be the basis for the dissemination of radsafe information immediately after the detonations. After reentry, the Scientific Task Group radsafe unit will establish a radsafe "situation" map from aerial and surface surveys, and will assist in the conduct of the Task Force missions.

5. The total integrated permissible dose for personnel participating in this operation is 3.0 roentgens (measured gamma only) based on a three month operational period. It may be necessary from a study of personnel records to adjust downwards the allowed total integrated dose for certain individuals who may have participated recently in other tests.

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