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HEADQUARTERS, Joint Task Force SEVEN  
Washington 25, D. C.  
20 June 1953, 1600 R

Operation Order  
CJTf SEVEN No. 1-53

- Chart References:
- a. U.S. Navy Hydrographic Chart No. 5203, North Pacific Ocean, MARSHALL ISLANDS.
  - b. U.S. Navy Hydrographic Chart No. 6032, North Pacific Ocean, MARSHALL ISLANDS, Northern Part, BIKINI ATOLL.
  - c. U.S. Navy Hydrographic Chart No. 6033, North Pacific Ocean, MARSHALL ISLANDS, ENIWETOK ATOLL.

Task Organization

- a. Task Group 7.1 (Scientific) Dr. William E. Ogle, LASL
- b. Task Group 7.2 (Army) Col. Frank J. Sackton, USA
- c. Task Group 7.3 (Navy) Rear Admiral Henry C. Bruton, USN
- d. Task Group 7.4 (Air Force) Col. Earl W. Kesling, USAF (Acting)
- e. Task Group 7.5 (AEC Base Facilities) Mr. James E. Reeves, AEC

1. General

a. Scope of Instructions

(1) This operation order covers the activities of Joint Task Force SEVEN during the CASTLE buildup phase. Subsequent instructions will cover on-site activities during the CASTLE operational phase, which commences with the arrival of task groups in the forward area.

(2) "Forward Area", as the term is used in this operation order, is defined as that area encompassing the MARSHALL ISLANDS.

(3) "ENIWETOK/BIKINI Danger Area", as the term is used in this operation order, is that area encompassing ENIWETOK and BIKINI ATOLLS and bounded by the meridians 160°35'-166°16' east longitude, and by the parallels 10°15'-12°45' north latitude; an area of 150 miles by 350 miles.

(4) "Closed Area", as the term is used in this operation order, is defined as including the land areas of ENIWETOK and BIKINI ATOLLS, the water areas of the respective lagoons and the water areas within three (3) miles to the seaward side of the respective land areas.

(5) This operation order supplements the instructions contained in CJTF 132 Operation Order No. 4-52, which remains in effect.

b. General Situation

(1) By authority of the Joint Chiefs of Staff (JCS), Joint Task Force 132 (JTF 132) was activated on 9 July 1951 for the purpose of

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conducting Operation IVY at ENIWETOK ATOLL during 1952. On 21 May 1952 the JCS designated the Chief of Staff, U.S. Army to continue as Executive Agent for a subsequent overseas atomic test (Operation CASTLE) and broadened the missions of CJTF 132 to include the execution of CASTLE.

(2) Operation IVY was completed on 21 November 1952.

(3) On 1 February 1953, Joint Task Force 132 was administratively redesignated as Joint Task Force SEVEN (JTF SEVEN) with no change in the previously assigned mission of conducting Operation CASTLE.

(4) Task groups of the joint task force were activated as follows:

<u>TASK GROUP</u>	<u>DATE ACTIVATED</u>	<u>TASK GROUP HEADQUARTERS</u>
Scientific Task Group (TG 7.1)	2 Jan 52	Los Alamos, New Mexico
Army Task Group (TG 7.2)	1 Aug 51	Eniwetok Island, M.I.
Naval Task Group (TG 7.3)	8 Feb 52	Washington 25, D. C.
Air Force Task Group (TG 7.4)	1 Jan 53	Kirtland Air Force Base, Albuquerque, New Mexico
AEC Base Facilities Task Group (TG 7.5)	4 Mar 53 (Activated after Operation IVY)	Santa Fe Operations Office, Albuquerque, New Mexico

(5) By authority of the JCS, the commander of the joint task force currently exercises operational control of the task groups (other than TG 7.2) for planning and coordination only (defined in Annex A), with full operational control of all task groups to be assumed by CJTF SEVEN upon arrival of task groups in the forward area.

(6) By authority of the JCS, CJTF SEVEN exercises administrative control of task groups (defined in Annex A) on certain matters pertaining to CASTLE.

(7) On 17 February 1953, CJTF SEVEN submitted a report to the JCS which outlined the organization for the joint task force, participation by the Armed Forces and basic operational plans and policies for the conduct of Operation CASTLE. This operation order is based on the plan submitted to the JCS, and approved by the JCS on 14 April 1953.

(8) Security, Intelligence and Public Information - Annex C.

2. Mission. The immediate missions of JTF SEVEN are:

a. To prepare for the conduct of Operation CASTLE, the operational phase of which is scheduled to commence in January, 1954.

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b. To prepare for the conduct of experimental and technical measurements proposed by the Atomic Energy Commission (AEC) and the Department of Defense (DOD) as approved by their respective agencies, and

c. To provide for the security of the joint task force and ENIWETOK and BIKINI ATOLLS.

3. Tasks for Subordinate Units

a. Scientific Task Group (TG 7.1)

(1) Prepare to conduct tests of the weapons and experimental devices.

(2) Prepare to conduct the technical and measurement programs as finally approved.

(3) Prepare to conduct the radiological safety program as set forth in Annex I.

(4) Prepare to conduct documentary film operations.

(5) Inform CJTF SEVEN of the technical requirements for JTF SEVEN test aircraft and surface craft.

(6) In liaison with the Commander of Task Group 7.5, establish requirements for base and test facilities and inform the CJTF SEVEN of significant requirements affecting his overall mission.

(7) Provide CJTF SEVEN with details of scientific programs involving military participation.

Refer to Annex D for summary of ultimate tasks and list of military personnel and services to be made available to the Commander of Task Group 7.1 (CTG 7.1).

b. Army Task Group (TG 7.2)

(1) Continue to discharge the responsibilities of CJTF SEVEN as Atoll Commander, ENIWETOK (ATCOM, ENIWETOK) in accordance with CJTF 132 Operation Order No. 4-52 and CINCPAC Operation Order No. 20-52.

(2) Maintain a mobile defense force for the ground security of ENIWETOK and BIKINI ATOLLS.

(3) Operate port, base and military communications facilities at ENIWETOK and certain military installations at BIKINI in accordance with existing AEC-DOD agreements.

(4) Operate inter-island and inter-atoll air and surface lift systems to support preparatory operations in the forward area during the CASTLE buildup phase.

(5) Prepare to provide and operate the overall military communications system for handling of all forward area task force inter-atoll and long-haul traffic (exclusive of air operations, air weather and

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internal naval communications).

Refer to Annex E for summary of ultimate tasks and list of the military forces to be made available to the Commander of Task Group 7.2 (CTG 7.2).

c. Naval Task Group (TG 7.3)

(1) By liaison with appropriate parent commands, assure the proper organization, training, equipping and timely reporting of elements to the task group.

(2) As directed by CJTF SEVEN, provide CTG 7.2 with forces to operate a boat pool element at ENIWETOK and an inter-atoll surface lift system to support joint task force elements in the forward area during the CASTLE buildup phase. Be prepared to assume operational control of these activities upon commencement of the operational phase, as directed by CJTF SEVEN.

(3) Prepare to provide an inter-island helicopter airlift system at BIKINI.

(4) Assure that naval aircraft and vessels are prepared to conduct the technical missions assigned.

(5) Plan for the execution of CASTLE missions to include delivery of significant device components to the forward area and between atolls, extended shipboard operations of the joint task force while at BIKINI and control of drone vessels.

Refer to Annex F for summary of ultimate tasks and list of the naval forces to be made available to the Commander of Task Group 7.3 (CTG 7.3).

d. Air Force Task Group (TG 7.4)

(1) By liaison with appropriate parent commands assure the proper organization, training, equipping and timely reporting of elements to the task group.

(2) Integrate reporting elements into the task group and conduct specialized training for the accomplishment of ultimate missions.

(3) As directed by CJTF SEVEN, provide CTG 7.2 with forces to operate an inter-island airlift system at ENIWETOK and BIKINI and an inter-atoll airlift system to support joint task force elements in the forward area during the CASTLE buildup phase. Be prepared to assume operational control of these activities at ENIWETOK upon commencement of the operational phase.

(4) Assure that aircraft of the task group are prepared to conduct the technical missions assigned.

(5) Plan for the execution of CASTLE missions to include ~~delivery of significant device components to the forward area~~ cloud sampling, effects tests aircraft operations, communications services, search

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and rescue, <sup>non-technical</sup> ~~essential~~ photography aircraft operations, weather service, MATS terminal operations and official observer flights.

Refer to Annex G for summary of ultimate tasks and list of Air Force personnel, services and equipment to be made available to the Commander of Task Group 7.4 (CTG 7.4).

e. AEC Base Facilities Task Group (TG 7.5)

(1) Continue the execution of missions assigned by the Manager of the Santa Fe Operations Office (SFOO) in accordance with current AEC policies.

(2) Plan, construct, operate and maintain certain specific installations and facilities at ENIWETOK and BIKINI ATOLLS in accordance with existing agreements with CTG 7.1 and between the AEC and DOD (see Annex K for existing AEC-DOD agreements).

(3) Provide necessary base facilities and logistic support for military personnel at ENIWETOK and BIKINI ATOLLS in accordance with existing agreements.

(4) Provide necessary test facilities to meet the scientific requirements and inform CJTF SEVEN of significant developments affecting his overall mission.

See Annex H for summary of ultimate tasks.

X. (1) By liaison with appropriate parent agencies and commands, task group commanders will assure the early initiation of security clearances for participating personnel. Commanders will require all participating personnel to undergo comprehensive indoctrination in the responsibility of the individual toward security.

(2) All military personnel to be stationed on ENIWETOK and BIKINI ATOLLS will, to the extent practicable, be familiarized with appropriate individual weapons prior to departure from the Zone of the Interior (ZI).

(3) Commanders will assure that emphasis is placed on radiological safety training operations (see Annex I) in tropical climate and other matters peculiar to an operation of this nature.

(4) Commanders will require definitive planning to assure the maximum economy of funds and economical utilization of military forces made available for this operation.

(5) Detailed records of task group activities will be maintained. Reports will be submitted in accordance with current joint task force directives. Task group operation plans and orders covering the CASTLE buildup phase will be prepared and forwarded to CJTF SEVEN.

(6) Task group commanders will keep CJTF SEVEN informed as to the progress of task group development, requesting assistance where required in effecting agreements with participating agencies and commands.

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(7) Task group commanders will take cognizance of the ultimate tasks indicated in this order and will direct the efforts of the task groups toward the capability for their execution.

(8) Commander's Concept of Operations - Annex B.

4. Administrative and Logistical Matters - Annex K.

5. Command and Signal Matters

a. Command Relationships - Annex A applies. Also, see CJTF 132 letter, subject: "Exercise of Command", dated 8 February 1952.

b. Command Posts (prior to movement to forward area)

CJTF SEVEN Washington 25, D. C.

CTG 7.1 Los Alamos Scientific Laboratory, Los Alamos, N.M.

CTG 7.2 Eniwetok Island, Marshall Islands

CTG 7.3 Naval Gun Factory, Washington 25, D. C.

CTG 7.4 Kirtland Air Force Base, Albuquerque, New Mexico

CTG 7.5 Santa Fe Operations Office, Albuquerque, New Mexico

c. Communications facilities of CTG 7.2 will be augmented as required to meet increased traffic conditions in the forward area and will continue to operate in accordance with Annex H to CJTF 132 Operation Order No. 4-52. Units of JTF SEVEN at stations other than ENIWETOK and BIKINI will utilize existing communications facilities at their base stations.

d. Operational phase communications in accordance with Annex L.

P. W. CLARKSON  
Major General, U.S. Army  
Commander

Annexes:

A. Organization and Command Relationships

Appendix:

I - Organization for Operation CASTLE (Prior to on-site phase)

B. Commander's Concept of Operations (to be issued separately)

Appendix:

I - Map of Eniwetok Atoll

II - Map of Bikini Atoll

C. Security, Intelligence and Public Information

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- D. Scientific Task Group Summary of Tasks
- E. Army Task Group Summary of Tasks
- F. Naval Task Group Summary of Tasks
- G. Air Force Task Group Summary of Tasks
- H. AEC Base Facilities Task Group Summary of Tasks
- I. Radiological Safety
  - Appendix:
    - I - Radiological Safety Regulations
- J. Weather Plan
  - Appendix:
    - I - Location Chart of Weather Units
    - II - Weather Organization Chart
- K. Administrative and Logistics
  - Appendix:
    - I - Memorandum, Ass't SecDef (Comptroller) of 9 March 1953
    - II - AEC-DOD Agreement of 1 January 1953
    - III - Medical Examinations
- L. Communications

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Annex A to CJTF SEVEN Operation Order No. 1-53

ORGANIZATION AND COMMAND RELATIONSHIPS

1. On 31 March 1953, the JCS established JTF SEVEN (formerly JTF 132) as a permanent joint task force for the purpose of conducting overseas atomic tests. Accordingly, it is contemplated that certain command relationship principles previously established by the commander of the joint task force under JCS-AEC authority will continue to obtain. Under this command relationship concept the commander of the joint task force:
  - a. Exercises full operational control of the Army Task Group at all times.
  - b. During the period between on-site operational phases, exercises operational control of all other task groups for planning and coordination. "Operational control for planning and coordination" is defined as that authoritative direction in planning and preparation necessary to insure successful accomplishment of the joint task force mission.
  - c. Assumes full operational control of each task group upon arrival of their respective headquarters in the forward area. The on-site operational phase commences with the establishment of JTF SEVEN Headquarters in the forward area. During the on-site phase the AEC designates CJTF SEVEN as its overall representative in the forward area, thereby giving the task force commander complete operational control of the military and scientific aspects of the operation.
  - d. Exercises administrative control of task groups at all times. This administrative control is defined as that control exercised for the purpose of establishing communications channels and coordinating reports, movements and fiscal matters exclusive of those pertaining to the administration of the AEC proving ground and contractors.
2. The Commander, JTF SEVEN will coordinate the activities of the Scientific Task Group and the AEC Base Facilities Task Group through his scientific director in accordance with existing AEC-CJTF policy agreements.
3. In the absence of the task force commander from the ENIWETOK area, the senior task force officer present will discharge the responsibilities of CJTF SEVEN as ATCOM, ENIWETOK. Except in unusual circumstances, the senior task force officer present will be CTG 7.2.
4. The senior task force officer at KWAJALEIN will coordinate matters involving joint task force activities (except movement control) at that station.
5. Refer to the attached appendix for organization for Operation CASTLE prior to the on-site phase.

P. W. CLARKSON  
Major General, U.S. Army  
Commander

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Organization and Command Relationships  
CJTF SEVEN No. 1-53

Appendix:

I - Organization for Operation CASTLE (Prior to on-site phase)

OFFICIAL:

  
WILLIAM S. COWARD, JR.  
Colonel, U.S. Air Force  
Assistant Chief of Staff, J-3

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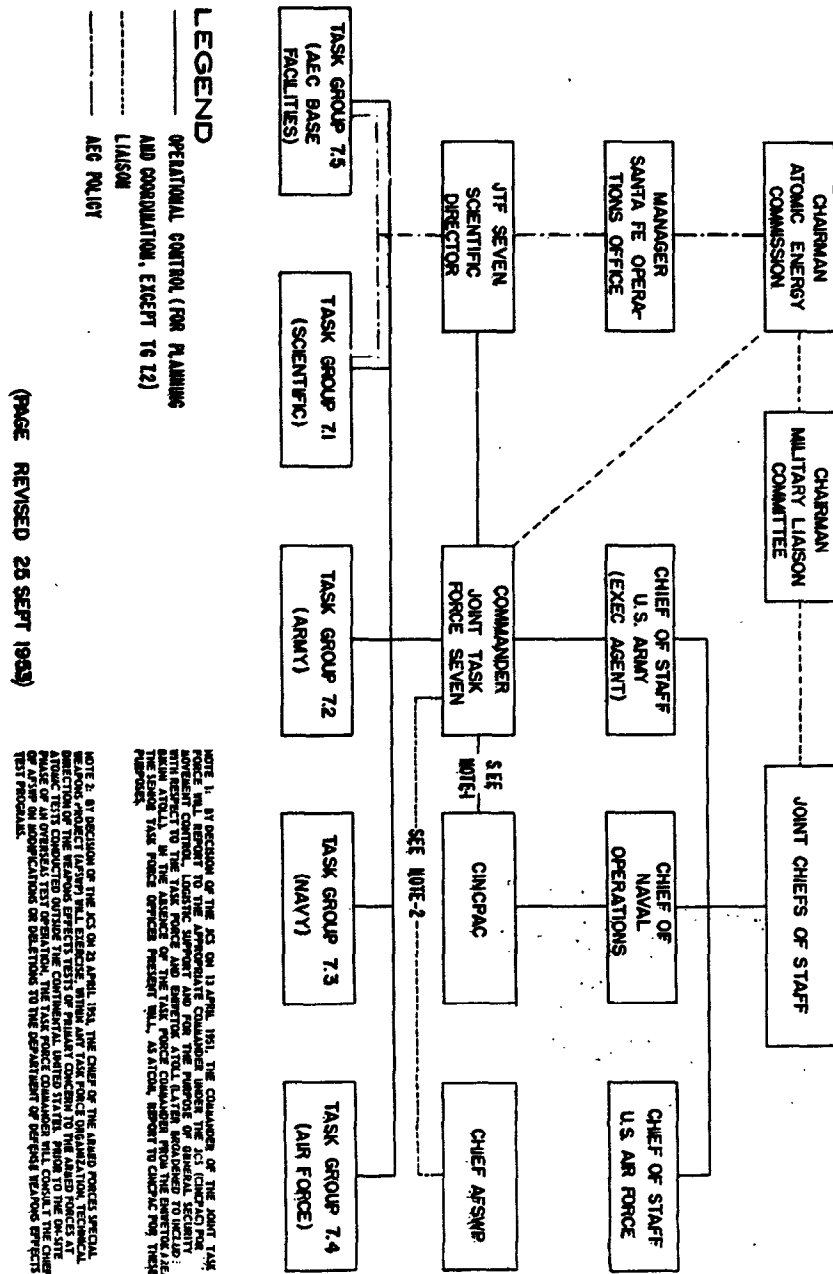
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APPENDIX TO ANNEX A  
ORGANIZATION AND COMMAND RELATIONSHIPS, CJTF SEVEN OPERATION ORDER NO. 1-53

ORGANIZATION FOR OPERATION CASTLE  
(PRIOR TO ON-SITE PHASE)



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Annex B to CJTF SEVEN Operation Order No. 1-53

COMMANDER'S CONCEPT OF OPERATIONS

1. General. Operation CASTLE will be a series of atomic tests to be conducted early in 1954 at ENIWETOK and BIKINI ATOLLS, MARSHALL ISLANDS. The operation will consist of six (6) thermonuclear shots, five (5) of which will have yields in the megaton range. This concept of operations will serve as the basic planning guide for Operation CASTLE. Detailed instructions covering the following on-site activities will be contained in CJTF SEVEN Operation Order No. 2-53.
2. Mission
  - a. To conduct tests of experimental weapons and devices as outlined below.
  - b. To conduct the technical and measurement programs.
  - c. To provide for security of the joint task force and ENIWETOK and BIKINI ATOLLS.
3. Tasks for Subordinate Units. The conduct of missions 2a and 2b, above, is the responsibility of the Scientific Task Group. Other task groups furnish the support necessary to fulfill these missions. To insure successful accomplishment of the missions, this support will be coordinated by CJTF SEVEN.

4. Shot Schedule

<u>SHOT &amp; CODE</u>	<u>DATE</u>	<u>SITE</u>
#1 NECTAR	N Day 15 Feb	BIKINI - On reef 2500 yds SW of NAMU ISLAND.
#2 UNION	U Day 25 Feb	BIKINI - Intersection of arcs with radii of 6900' from YUROCHI and 3 nautical miles from ACMOEN (Barge).
#3 BRAVO	B Day 8 Mar	BIKINI - Barge, NE of <del>site.</del>
#4 KOON	K Day 17 Mar	BIKINI - Cab, ENINMAN ISLAND.
#5 ECHO	E Day 24 Mar	ENIWETOK - Tower on EBERIRU ISLAND.

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<u>SHOT &amp; CODE</u>	<u>DATE</u>		<u>SITE</u>
#6 YANKEE	Y Day 3 Apr	<del>DELETE</del>	ENIWETOK - Barge in ELUGELAB crater.

5. Factors Significant to Preliminary Planning

- a. ENIWETOK ATOLL will be the base of operations, irrespective of the scope of activities at BIKINI ATOLL.
- b. Port of entry for aircraft and most shipping will remain on ENIWETOK ATOLL. Radio links with OAHU, T.H. and LOS ALAMOS, NEW MEXICO will remain on ENIWETOK.
- c. The Air Force Task Group will be based on ENIWETOK ISLAND.
- d. The P2V patrol squadron of TG 7.3 will be based at KWAJALEIN for maintenance and will stage patrol missions through ENIWETOK ISLAND.
- e. Pre-shot evacuation of joint task force elements will be conducted during operations at BIKINI. See paragraph 9, below.
- f. One of the most critical operational factors during CASTLE will be population congestion at principal locations. The presence of the Air Force Task Group on ENIWETOK ISLAND will tax the facilities of that island. PARRY ISLAND is also expected to have a capacity population because of the increase of scientific and construction elements of the task force and the amount of work to be done at PARRY ISLAND in preparation for the BIKINI shots. An even more critical condition will exist at BIKINI because of limited camp site facilities. Shipboard accommodations, especially aboard the CVE and AGC, will also be limited. In view of these expected conditions, task group commanders will assure that:

(1) Personnel are not taken to the forward area to perform routine tasks capable of accomplishment in the ZI or for the sole purpose of witnessing the shots.

(2) Personnel are dispatched from the forward area as soon as practicable after completion of their tasks.

(3) Personnel will not be based at BIKINI longer than their operational mission requires.

g. Joint task force and task group headquarters will be located at ENIWETOK ATOLL, with commanders and key operations staff personnel moving to BIKINI so as to be on site two (2) days before and one (1) day after each shot. Administrative and logistic staffs will remain on ENIWETOK ATOLL. The Commander, JTF SEVEN, task group commanders and key operations staff personnel will be located as follows:

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	<u>DURING BIKINI SHOTS</u> <u>(D-2 to D plus 1)</u>	<u>AT OTHER TIMES</u>
CJTF SEVEN	AGC	PARRY ISLAND
CTG 7.1	AGC	PARRY ISLAND
CTG 7.2	ENIWETOK ISLAND	ENIWETOK ISLAND
CTG 7.3	CVE	PARRY ISLAND
CTG 7.4	AGC	ENIWETOK ISLAND
CTG 7.5	AGC	PARRY ISLAND

h. Five of the six devices and weapons will be assembled on ENIWETOK ATOLL (PARRY and EBERIRU ISLANDS). Devices or weapons prepared at PARRY ISLAND for detonation at BIKINI ATOLL will be assembled on barges and transported to the BIKINI shot site aboard the LED so as to arrive approximately five (5) days prior to scheduled shot time.

i. Machine shop, laboratory, photographic, warehouse and stockroom facilities will remain on PARRY and ENIWETOK ISLANDS, except for limited field facilities at BIKINI.

j. Preliminary assembly and testing of experimental equipment and rehearsals will be done on PARRY ISLAND, to the extent practicable.

k. The USS CURTISS will be used as the principal shipboard facility for TG 7.1 scientific personnel and laboratory, shop and office space.

l. The Army Task Group will be brought up to its operational strength prior to 1 December 1953 in order to perform its operational mission and provide base facilities for approximately 1800 other task force personnel.

m. Rehabilitation of facilities on ENIWETOK ISLAND to accommodate CASTLE operations must be completed prior to 1 December 1953.

n. All land-based military communications equipment will be installed and thoroughly checked out prior to commencement of the operational phase.

o. The Commander, TG 7.2 will make arrangements to conduct individual weapon marksmanship courses for military personnel who have been unable to accomplish this in the ZI.

p. The Naval Task Group boat pool will be trained and in the forward area by 15 January 1954.

q. Rehearsal activities (involving naval vessels) conducted in the forward area prior to the arrival of CTG 7.3 will be coordinated with ATCOM, ENIWETOK, as necessary.

r. By liaison with appropriate parent commands, CTG 7.3 will assure that all shipboard communications facilities are thoroughly checked

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out prior to reporting to CJTF SEVEN.

s. The command ship will be positioned within VHF communications range of ENYU ISLAND during the BIKINI operations.

t. Inflight refueling operations will not be conducted. During the first three shots at BIKINI the airstrip on ENINMAN ISLAND group may be used for emergency landing.

u. During shots and rehearsals, command of joint task force air operations will be exercised through the CIC of the command ship. The CIC will be supervised by joint task force air controllers provided by the Air Force Task Group. The joint task force air controllers will also control movement of TG 7.4 aircraft and, in the interest of safety and positioning requirements, the movements of such other aircraft as may be appropriate.

v. The Commander, JTF SEVEN will coordinate arrangements for sample return flights.

w. Major construction in support of scientific programs will be completed by 1 January 1954.

x. Population During Operational Phase (CURRENT ESTIMATE)

	<u>DURING BIKINI OPERATIONS</u>	<u>DURING ENIWETOK OPERATIONS</u>
Hq JTF	50 - AGC (25 Cabin Class) 40 - Parry Island	3 - AGC (2 Cabin Class) 87 - Parry Island
Weather Central	20 - AGC (10 Cabin Class)	20 - Eniwetok Island
TG 7.1	80 - AGC (35 Cabin Class) 50 - CVE (33 Cabin Class) 111 - CURTISS (98 Cabin Class) 361 - Eninman Island 247 - Other islands of Bikini 95 - Eniwetok Island 606 - Parry Island 176 - Other islands of Eniwetok	95 - Eniwetok Island 1172 - Parry Island - Other islands of Eniwetok
TG 7.2	37 - AGC (5 Cabin Class) 50 - Bikini Atoll 953 - Eniwetok Island 30 - Parry Island - Other islands of Eniwetok	35 - AGC (5 Cabin Class) 975 - Eniwetok Island 30 - Parry Island 30 - Other islands of Eniwetok
TG 7.3	4230 - Afloat 30 - Parry Island 156 - Eniwetok Island 303 - Kwajalein	4200 - Afloat 60 - Parry Island 156 - Eniwetok Island 303 - Kwajalein

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	<u>DURING BIKINI OPERATIONS</u>	<u>DURING ENIWETOK OPERATIONS</u>
TG 7.4	8 - AGC (5 Cabin Class) 28 - CVE (7 Cabin Class) 1522 - Eniwetok Island 84 - Weather Islands 31 - Bikini Atoll	8 - AGC (5 Cabin Class) 1581 - Eniwetok Island 84 - Weather Islands
TG 7.5	30 - AGC (15 Cabin Class) - CURTISS 500 - Eninman Island - Other islands of Bikini 800 - Parry Island 40 - Eniwetok Island - Other islands of Eniwetok Atoll	- CURTISS 1300 - Parry Island 40 - Eniwetok Island - Other islands of Eniwetok Atoll

NOTE: Task group commanders will keep CJTF SEVEN informed of changes in the above estimates.

6. Coordinated Inter-Island Airlift Operations. The limited availability of aircraft to support inter-island airlift operations will necessitate maximum utilization of all inter-island equipment in the forward area. To assure maximum utilization and provide efficient service in support of the overall task force mission, aircraft will be centrally controlled and dispatched by the commander responsible for providing the service. Using agencies will be expected to plan their movement activities in advance to permit proper scheduling.

a. At Bikini Atoll

(1) The Commander, TG 7.3 will provide a helicopter airlift system, operating from the CVE.

(2) Normal requirements for helicopter use will be placed on CTG 7.3 by using agencies prior to the day lift is required. Requirements will be detailed to include complete inter-island itinerary and lift load.

(3) As required by CJTF SEVEN, CTG 7.4 will place additional helicopters and personnel under the operational control of CTG 7.3 to augment the TG 7.3 helicopter lift system.

(4) The Commander, TG 7.3 will schedule and dispatch all helicopter aircraft. When combined task group lift requirements exceed the available lift, CJTF SEVEN (or his designated representative on site) will act as arbiter and determine priority in the light of the overall joint task force mission.

b. At Eniwetok Atoll

(1) The Commander, TG 7.4 will provide a liaison aircraft and helicopter lift system, operating from ENIWETOK ISLAND.

(2) Normal requirements for liaison aircraft and helicopter use will be placed with CTG 7.4 by using agencies prior to the day lift

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is required. Requirements will be detailed, to include complete inter-island itinerary and lift load.

(3) The Commander, TG 7.2 will place the Army helicopter element under operational control of CTG 7.4.

(4) The Commander, TG 7.4 will schedule and dispatch all liaison and helicopter aircraft. When combined task group requirements exceed available lift, CJTF SEVEN (or his designated representative on site) will act as arbiter and determine priority in the light of the overall joint task force mission.

(5) Upon completion of BIKINI operations, CTG 7.3 will place additional helicopters under the operational control of CTG 7.4, if required by CJTF SEVEN to augment the TG 7.4 helicopter lift system.

7. Coordinated Inter-Atoll Airlift Operations

a. The Commander, TG 7.4 will provide an inter-atoll airlift system between ENIWETOK and BIKINI ATOLLS, with flights to other atolls in the forward area as required to support joint task force elements. Two (2) PBM aircraft from TG 7.3 will be provided to augment the ENIWETOK-BIKINI service.

b. Requirements for personnel and cargo space will be placed with CTG 7.4 by using agencies prior to the day lift is required.

c. When combined task group lift requirements exceed available lift, CJTF SEVEN (or his designated representative on site) will act as arbiter and determine priority in light of the overall joint task force mission.

d. On K minus 1 day, C-47 aircraft will be withdrawn from ENIWETOK - BIKINI service. Following the fourth shot (K00N), ENIWETOK-BIKINI service will be provided by PBM aircraft, taking off from ENIWETOK ISLAND airstrip and landing in the BIKINI lagoon.

e. The Commander, TG 7.3 will place two (2) PBM aircraft under the operational control of CTG 7.4 to augment the ENIWETOK-BIKINI airlift system.

8. Coordinated Boat Pool Operations

a. At Bikini Atoll. As both CTG 7.3 and CTG 7.5 will provide large scale boat pool service for multiple using agencies, overall control of this activity by either task group commander is not considered feasible. Accordingly:

(1) A joint task force scheduling panel consisting of representatives from TG 7.3 and TG 7.5 will conduct boat pool operations directly under the supervision of CJTF SEVEN, who will have final responsibility for scheduling control and coordination.

(2) The joint task force Scheduling Panel will coordinate schedules. The TG 7.3 member will dispatch Navy boats and the TG 7.5 member will dispatch Holmes and Narver boats to meet the requirements

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of all using agencies. Using agencies will be expected to plan their movement activities sufficiently in advance to permit proper scheduling and maximum utilization of small craft.

(3) During shore operations, the joint task force Scheduling Panel will be located on ENINMAN ISLAND. When the task force goes afloat, the Scheduling Panel will be located on the LSD.

(4) Prior to shot #4 (KOON), the TG 7.5 boat pool will be evacuated to ENIWETOK ATOLL. At this time, CTG 7.3 assumes responsibility for all boat pool operations at BIKINI and conducts these operations from afloat. Although CTG 7.3 may be required to furnish small craft at ENIWETOK during shots #5 and #6, the completion of operations at BIKINI remains as the primary mission for the TG 7.3 boat pool.

b. At Eniwetok Atoll

(1) The Commander, TG 7.2 and CTG 7.5 will continue to operate their respective boat pools in accordance with existing procedures.

(2) Augmentation of TG 7.2 boat pool operations will be provided by CTG 7.3 and CTG 7.5 if CJTF SEVEN determines that capacity population on ENIWETOK ISLAND requires such augmentation.

9. Evacuation

a. All BIKINI based personnel and equipment not directly involved in late preparations and shot operations will be phased to ENIWETOK ATOLL prior to B minus 2 days.

b. The following evacuation procedures apply:

(1) SHOT #1 (BRAVO). There will be no pre-shot evacuation of personnel or materiel from BIKINI ATOLL for this shot. Camp sites on the ENINMAN ISLAND group need not be cleared of personnel prior to the shot. Boat pool craft not required elsewhere will be beached or remain in BIKINI lagoon.

(2) SHOT #2 (UNION) and SHOT #3 (NECTAR)

(a) Pre-shot evacuation from BIKINI ATOLL of personnel and limited materiel required for reentry operations may be indicated because of possibility of radioactive "throw-out" or excessive wave action. However, final decision on pre-shot evacuation for both of these shots is deferred until studies now being made are completed.

(b) In the event of unpredicted contamination of the ENINMAN ISLAND camp, a capability for several days operation from afloat must exist for limited personnel necessary for continuation of the operation.

(c) If excessive wave action is predicted, surface craft will be anchored in deep water in the southern part of BIKINI lagoon or accompany the joint task force to sea.

(3) SHOT #4 (KOON). Prior to Shot #4, all task force personnel

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and equipment not involved in recovery operations for the shot will be deployed from BIKINI ATOLL. Total pre-shot evacuation of all remaining personnel and equipment (less firing party) will then be necessary during the shot. Data recovery operations will be conducted from afloat. Upon completion of data recovery operations, the task force afloat will return to ENIWETOK ATOLL and move ashore to conduct Shot #5 (ECHO).

(4) SHOT #5 (ECHO) and SHOT #6 (YANKEE). There will be no pre-shot evacuation of personnel or materiel from ENIWETOK ATOLL for these shots. Only the transfer of personnel, equipment and small craft from the northern islands to ENIWETOK and PARRY ISLANDS will be necessary.

c. The foregoing pre-shot evacuation procedures will apply to all task force personnel except a firing party of approximately six (6) individuals who will detonate the BIKINI shots from a protective bunker on ENYU ISLAND.

d. Except for Shot #4 (KOON), it will not be necessary to evacuate any land-based materiel beyond the limits of BIKINI ATOLL for protective purposes.

e. Emergency Post-Shot Evacuation Capability. During those shots where a pre-shot evacuation is not conducted, the joint task force will maintain a capability for emergency post-shot evacuation. An emergency post-shot evacuation will be executed only if unexpected radiological conditions so dictate. Such evacuation will be for personnel safety only; will not involve movement of materiel or personal belongings other than toilet articles and; will be capable of accomplishment on four (4) hour notice.

P. W. CLARKSON  
Major General, U.S. Army  
Commander

Appendices:

- I - Map of ENIWETOK ATOLL
- II - Map of BIKINI ATOLL

DISTRIBUTION:

CTG 7.1	1 copy
CTG 7.2	1 copy
CTG 7.3	1 copy
CTG 7.4	1 copy
CTG 7.5	1 copy

OFFICIAL:

*W.S. Cowart*  
WILLIAM S. COWART, JR.  
Colonel, U.S. Air Force  
Assistant Chief of Staff, J-3

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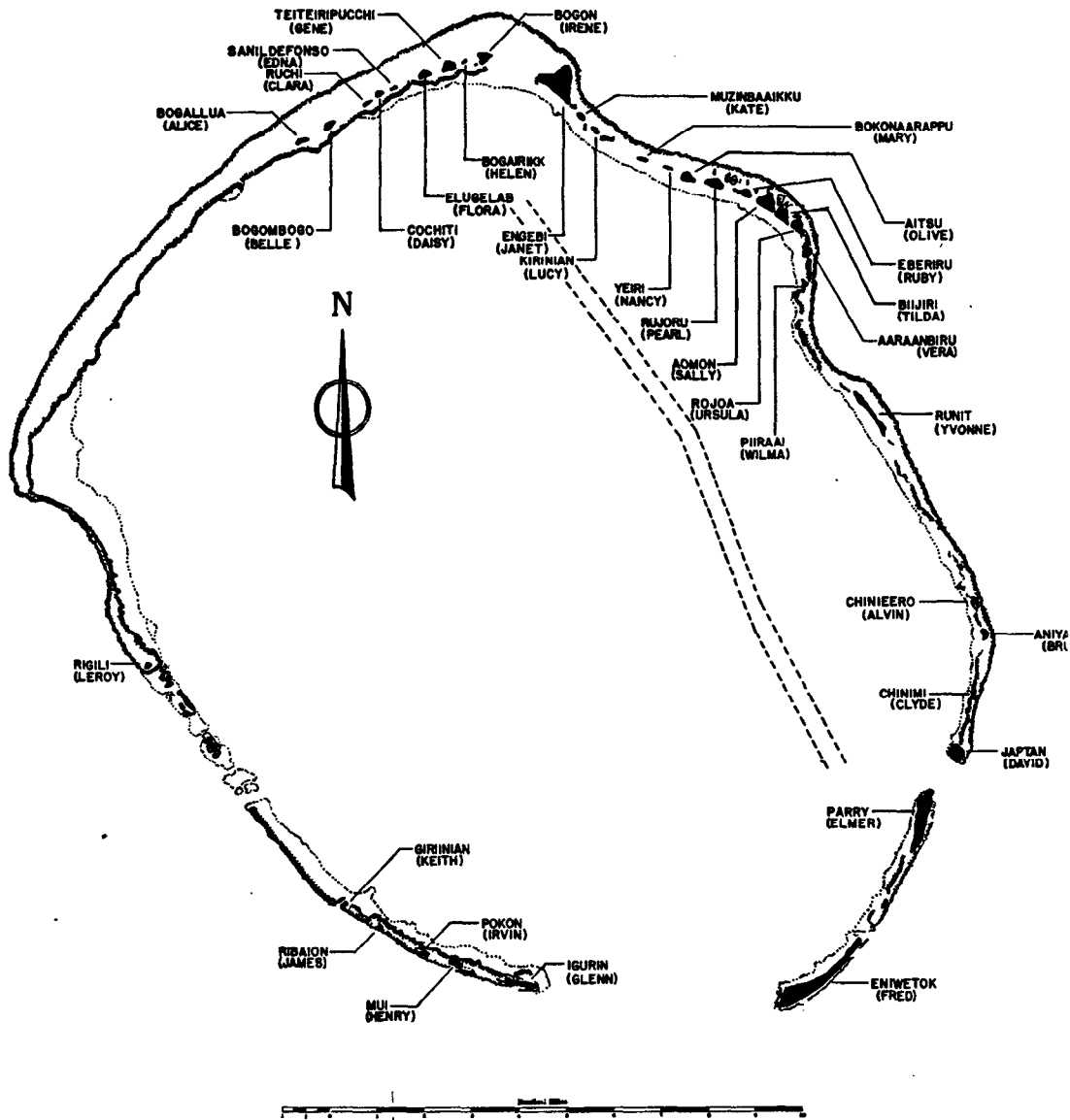
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Appendix I to Annex B  
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MAP OF ENIWETOK ATOLL



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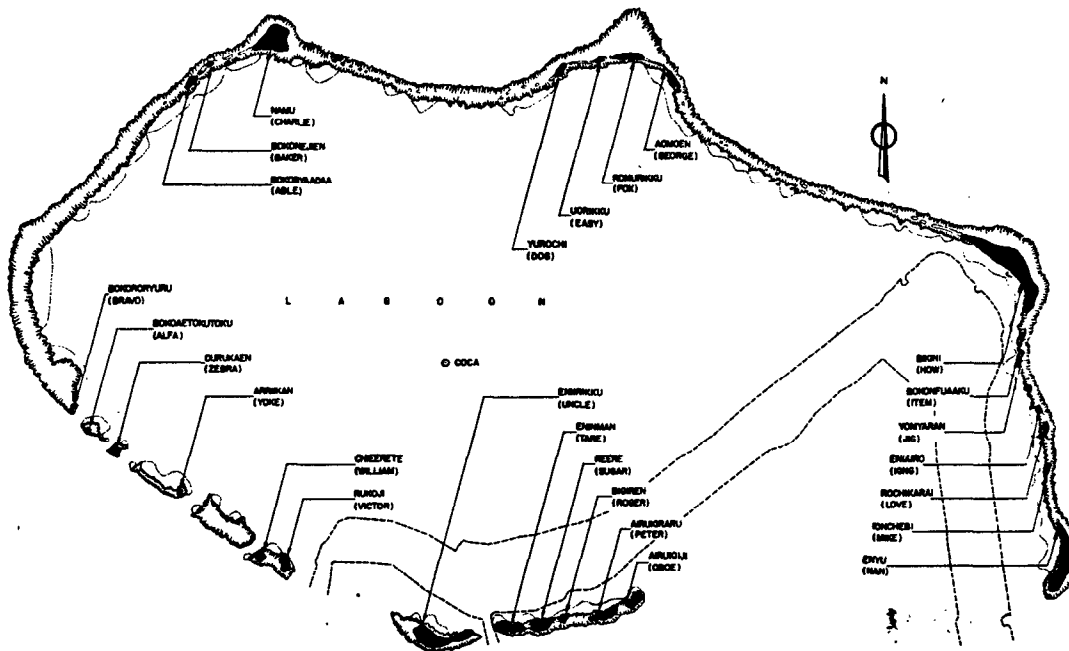
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MAP OF BIKINI ATOLL



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Annex C to CJTF SEVEN Operation Order No. 1-53

INTELLIGENCE, SECURITY AND PUBLIC INFORMATION

1. Intelligence - General

- a. No interference is expected from an overt enemy during Operation CASTLE since the use of force or direct open observation from a point well within the ENIWETOK-BIKINI danger area would involve consequences out of proportion to the value of the results to be obtained from such action.
- b. The country having the greatest capability of compromising the security of Operation CASTLE is the Soviet Union.
- c. In the event of an outbreak of war the entire concept of the operation would be changed materially.

2. Summary of Enemy Capabilities

a. It is considered that interference with the mission or compromise of its activities could be effected by espionage, sabotage, overt action by vessel or aircraft, raids, observation, unauthorized instrumentation and declaration of war.

b. Naval Capabilities. The USSR has 19 ocean patrol and 37 medium range type submarines in the Pacific area. It is estimated that at least 4 to 6 ocean patrol submarines could be maintained in the ENIWETOK-BIKINI operational area indefinitely and for short periods this number could be increased. Unobserved submarine approach within one mile of important islands of these atolls is possible.

c. Air Capabilities

(1) Aerial photo and radiological reconnaissance of the ENIWETOK-BIKINI area from Far East bases (SAKHALIN or the KURILES) are within Soviet capabilities. With prior access to CASTLE plans, reconnaissance flights could be properly timed to permit aircraft to remain in the target area for a brief period. The TU-4, modified for long range reconnaissance, could accomplish this without refueling. Assuming that the Soviets have developed refueling techniques equal to those of the U.S., one outbound refueling would extend the time over target to over 4 hours. There is no evidence, however, that the Soviets have developed refueling capabilities. The Third Long Range Air Army, stationed in the Far East, is presently estimated to have a TO/E strength of approximately 220 TU-4s. No aircraft of this type is known to be modified for long range reconnaissance.

(2) The only Soviet aircraft known to have greater range potentiality than the TU-4 is the Type 31 prototype heavy bomber which was observed in flight for the first time in the July 1951 Aviation Day air show in Moscow. This aircraft, if equipped with the JU-022 turboprop engine, would have a combat radius of about 3500 nautical miles and considerably in excess of this if the combat load were replaced with fuel. A few aircraft are probably available having range

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capabilities comparable to the Type 31. It is entirely possible that the Soviets might equip such an aircraft for photo and radiological reconnaissance if a sufficiently high priority exists for this requirement.

d. Conclusions. Espionage, sabotage, observation and unauthorized instrumentation are considered most likely to occur under conditions existing today. The declaration of war, overt action by vessel or aircraft and raids are less likely possibilities which could take place in the event of open hostilities between the U.S. and the USSR.

3. Security. Security of classified information is the normal responsibility of any commander but this responsibility must be reevaluated in Operation CASTLE where the operation is dealing with atomic energy, a development which played an important part in terminating WW II and which constitutes such importance that it has been regulated, controlled and protected by Federal Law. The responsibility of each individual in properly safeguarding classified information concerning atomic energy and in preventing its compromise by careless talk or correspondence must be understood by all military ranks and civilians.

4. General Conception. The general conception of the measures to provide security is as follows:

a. The ENIWETOK-BIKINI area of operations will be closed to all vessels, aircraft and personnel except those participating. Access to this area will be in accordance with regulations established by CINCPAC Serial O20. All areas within the ENIWETOK-BIKINI operational area will be designated in accordance with the degree of security required.

b. Personnel participating in the operation will be cleared for loyalty and security in accordance with the varying degrees of responsibility.

c. The ENIWETOK-BIKINI area of operations is under the general protection of CINCPAC.

d. Regulations governing security published by the DOD and AEC continue to apply to members of the joint task force.

(1) AR 380-5 and SR 380-5-1 )  
OPNAV Instruction 5510.1 )  
AFR 205-1 ) For appropriate units  
GM Security Bulletins )

(2) Hq, JTF SEVEN Security Memoranda )  
Espionage Act )  
Atomic Energy Act of 1946 ) Apply to all members of  
AEC-DOD classification criteria ) JTF SEVEN

e. Task group commanders are responsible for security training of members of their commands. All personnel will be required to pass a basic security examination, prepared and distributed by Hq, JTF SEVEN.

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- f. Each basic unit, ship or detachment participating in Operation CASTLE will have an officer designated as Security Officer, whose primary duties will include security training, enforcement of security regulations and supervising the administering, grading and recording the results of security examinations.
5. Personnel Clearances. Each task group commander is responsible that all personnel participating in Operation CASTLE are cleared in accordance with CJTF SEVEN security memoranda.
6. Classification Criteria. A "Classification Guide for Operation CASTLE", concerning all pertinent classification criteria, will be issued to the task group commanders for their guidance.
7. Travel Security Control
- a. CINCPAC Serial 020, dated 1 April 1952, outlines the requirements for entrance to the ENIWETOK-BIKINI operational or closed area, as defined on page 1, paragraph 1a(4) of this operation order.
- b. All persons who are authorized to enter the ENIWETOK-BIKINI operational area will be initially cleared for entry under the provisions of CINCPAC Serial 020. Task group commanders may authorize reentry without recourse to CINCPAC.
- c. The Commander, TG 7.2, is responsible that individuals arriving at the ENIWETOK-BIKINI operational area who have not been cleared for entry under CINCPAC Serial 020, or reentry as provided in the preceding paragraph, are restricted to ENIWETOK ISLAND and unclassified information pending proper clearance.
- d. Movements of surface vessels and aircraft within the ENIWETOK-BIKINI operational area will be monitored by ATCOM, ENIWETOK.
- e. Travel of personnel within the ENIWETOK-BIKINI operational area will be controlled by a badge system for access to the higher classified areas.
8. Security Areas
- a. The "ENIWETOK-BIKINI Danger Area", as defined on page 1, paragraph 1a(3) of this operation order, consists of three (3) classified area categories, as defined by AEC GM Security Bulletin No. 18, for purposes of security enforcement. These areas are:
- (1) Exclusion Area. A security area containing a security interest which is of such nature that access to this area constitutes, for all practical purposes, access to the security interest contained therein - i.e., a shot site or assembly area.
- (2) Limited Area. A security area containing a security interest in which area uncontrolled movement would permit access to the security interest contained therein; but such access may be prevented by escort and other internal restrictions and controls - i.e., PARRY ISLAND.

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(3) Controlled Area. A security area adjacent to or encompassing limited or exclusion areas and within which area uncontrolled movement does not permit access to a security interest, and which is designed for the principal purpose of providing administrative control, safety or a buffer area of security restrictions for limited or exclusion areas - i.e., ENIWETOK Closed Area.

b. Exclusion and limited areas are established by CJTF SEVEN. Internal security requirements and access to these areas are determined by CTG 7.5. The Commander, TG 7.2, will guard these areas, admitting only those persons authorized by CJTF SEVEN.

c. The closed (controlled) area has been established by CINCPAC. Admittance to this area is authorized by CINCPAC upon recommendation of CJTF SEVEN. The internal security of this area is the responsibility of ATCOM, ENIWETOK.

d. Clearance requirements for access to the security areas are designated as follows:

<u>SECURITY AREA</u>	<u>JTF CLEARANCE REQUIREMENTS</u>	<u>AEC CLEARANCE REQUIREMENTS</u>
Exclusion Area	"Q" Clearance and Access List	"Q" Clearance and Access List
Limited Area	"Q" Clearance; Top Secret Military Clearance; Secret Military Clearance under escort.	"Q" Clearance; "P" approval under escort (without access to Restricted Data); Top Secret Clearance (provided no access to Restricted Data from AEC contractor personnel); Secret Military Clearance under escort.
Controlled Area	Good Security Risk (CINCPAC Ser. 020)	"P" approval or good security risk (CINCPAC Serial 020).

9. Contact Reports. The procedure for contact reporting is defined in CINCPACFLT Serial 003360.2B, dated 14 April 1953. ATCOM, ENIWETOK will comply with its provisions when carrying out security patrols in the ENIWETOK-BIKINI area.

10. Badge System. A badge system will be established to control travel to the exclusion and limited areas. The Commander, TG 7.2, will be responsible for controlling and enforcing this system on orders promulgated by CJTF SEVEN. The Commander, TG 7.5, is responsible for procurement and issue of badges as set forth in CJTF SEVEN security memoranda. The badge system will become effective on or about 1 January 1954.

11. Contraband

a. Unless authorized by specific orders to individuals, possession of items of material listed below in the ENIWETOK-BIKINI area is prohibited and the items considered contraband.

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- (1) All photographic equipment
  - (2) All equipment adaptable for use in either visual or electronic communications.
  - (3) All optical equipment.
  - (4) All materials with explosive capabilities.
  - (5) All weapons.
  - (6) All drugs and intoxicating beverages.
- b. Travel orders will include a statement of the articles of contraband.
- c. Items of contraband will be confiscated and report of the circumstances made to CJTF SEVEN.
- d. Film found in possession of unauthorized persons will be confiscated, forwarded to CTG 7.5 for processing and classification and a report will be made to CJTF SEVEN.
12. Photography. Only official photography is authorized in the Eniwetok-Bikini operational area. All official photography will be reviewed by the Joint Task Force SEVEN Classification Officer for proper classification and determination of "RESTRICTED DATA". Prior to review and final classification by the classification officer, all photography will be given a preliminary classification. The preliminary classification will in no case be lower than SECRET-SECURITY INFORMATION for scientific and non-technical photography and RESTRICTED-SECURITY INFORMATION for administrative photography.
13. Communications Security. The security and monitoring of communications will be accomplished under the direction of CJTF SEVEN.
14. Counter-Intelligence. The Commander, JTF SEVEN, will have operational control of all CIC units. The Commander, TG 7.4 will have operational control of all OSI agents whose activities will, in general, be confined to Air Force matters.
15. Security Patrols. The Commander, TG 7.2, is responsible for conducting the necessary security patrols within ENIWETOK-BIKINI ATOLLS. Air and sea security patrols outside the ENIWETOK-BIKINI ATOLLS will be the responsibility of CTG 7.3.
16. Inspections. Inspections will be conducted upon arrival of personnel and periodically thereafter to detect security violations and contraband and to insure the use of proper identification credentials and proper safeguarding of classified matter. Individuals are responsible for reporting security violations which come to their attention.
17. Security Violations. Task group commanders are responsible for investigating and reporting immediately all violations of security regulations which occur within their jurisdiction.

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18. Security Control of AEC Accountable Material - Transportation

- a. The Atomic Energy Commission will be responsible for the security control in the transportation of AEC accountable and other classified materials from the point of origin to the carrier at the designated port of embarkation.
- b. The Commander, TG 7.3, will be responsible for the security control of AEC accountable and other classified materials during its transport on a Navy vessel to the ENIWETOK-BIKINI operational area.
- c. The Commander, JTF SEVEN, will be responsible for the security control of AEC accountable and other classified materials during their transport aboard aircraft and all vessels not under the command of Commander, TG 7.3 to the ENIWETOK-BIKINI operational area.
- d. The Commander, TG 7.5, will be responsible for the security control of AEC accountable and other classified materials upon transfer from the carrier to his custody. A representative from TG 7.5 will accompany the materials in every instance from the point of origin until they are taken into the custody of CTG 7.3 at its ultimate destination.

19. Public Information

- a. Joint Task Force SEVEN does not release any public information.
- b. Releases to the press are made only by the AEC or DOD with regard to JTF SEVEN operations and activities.
- c. Personnel of JTF SEVEN are prohibited from releasing any information for publication in regard to the joint task force or its activities. They must neither confirm nor deny any articles appearing in the press. Queries from the press or elsewhere will be referred to AEC-DOD releases.
- d. AEC-DOD releases, when made, will be disseminated to units of JTF SEVEN through normal communication channels at the earliest possible time.

P. W. CLARKSON  
Major General, U.S. Army  
Commander

OFFICIAL:

*S. P. Walker, Jr.*

S. P. WALKER, JR.  
Colonel, U.S. Army  
Assistant Chief of Staff, J-2

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Annex D to CJTF SEVEN Operation Order No. 1-53

SCIENTIFIC TASK GROUP SUMMARY OF TASKS

1. The following is a summary of tasks to be accomplished by the Scientific Task Group in preparation for the ultimate CASTLE missions assigned to CTG 7.1.
  - a. In liaison with appropriate agencies and military commands, provide CJTF SEVEN with details of scientific programs involving military participation.
  - b. Integrate within the task group a unit representing the Armed Forces Special Weapons Project (AFSWP) which will conduct measurement programs on behalf of the Department of Defense.
  - c. To the extent practicable, and in coordination with the Chief of AFSWP, integrate the AEC and DOD scientific projects to the end that economy of funds, personnel and military support is achieved.
  - d. Through coordination with CTG 7.5, continue technical direction of certain AEC contracts undertaken for the accomplishment of CASTLE objectives.
  - e. Provide CJTF SEVEN with planned peak strengths, forward area phasing, on-site location and inter-atoll movements of Scientific Task Group elements.
  - f. Provide CJTF SEVEN, at the earliest date, with the following information and subsequent changes which may occur thereto: Concept of scientific operations, to include location and description of shot and instrumentation sites, timing and firing methods, proposed detonation hours, checkouts and rehearsals required, number of personnel and time involved in each data recovery operation, estimated sample return requirements and other factors bearing on the commander's overall operational concept.
  - g. Prepare to conduct ~~documentary~~ <sup>non-technical</sup> film operations, utilizing the services of the Air Force Lookout Mountain Laboratory. In this connection, prepare an outline of the CASTLE ~~documentary~~ <sup>non-technical</sup> film in accordance with principles to be established by CJTF SEVEN in a separate communication.
  - h. As soon as practicable, inform CJTF SEVEN of the estimated dates of readiness of the weapons and experimental devices and make appropriate recommendations on dates of movement to the forward area.
  - i. As soon as practicable, submit to CJTF SEVEN recommendations on means of movement of device components and weapons to the forward area.
2. In accomplishment of his ultimate tasks during the operational phase, CTG 7.1 will:

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Scientific Task Group Summary of Tasks  
CJTF SEVEN No. 1-53

- a. Provide technical assistance during loading, inter-atoll movement and placing of the experimental devices, and weapons.
  - b. Complete the installation and calibration of the devices and all instruments and test apparatus.
  - c. Be responsible for the removal of all TG 7.1 personnel and necessary equipment from the shot site danger area.
  - d. When directed by CJTF SEVEN, evacuate TG 7.1 personnel from BIKINI ATOLL.
  - e. Be prepared, upon directive from CJTF SEVEN, to conduct emergency post-shot evacuation of TG 7.1 personnel from ENIWETOK ATOLL.
  - f. Position, arm and detonate the weapons and devices.
  - g. Conduct the technical and measurement programs.
  - h. Provide non-technical film coverage.
  - i. Prepare appropriate technical reports at the conclusion of each shot and the overall operation.
  - j. Assist CTG 7.3 in aircraft decontamination ashore at BIKINI ATOLL.
3. The following military personnel will be made available to the Scientific Task Group for Operation CASTLE. Figures do not include all Service personnel assigned to the Air Force Lookout Mountain Laboratory (25 officers and 20 enlisted men) nor the self-contained radiological safety unit (12 officers and 36 enlisted men) of TG 7.1.

	<u>OFFICERS</u>	<u>ENLISTED</u>
ARMY	21	32
NAVY	15	15
AIR FORCE	<u>19</u>	<u>32</u>
TOTAL	55	79

See Annexes E, F and G for overall military forces to be made available by the Services as approved by the JCS for use during Operation CASTLE.

OFFICIAL:

*W. S. Cowart, Jr.*  
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Commander

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Annex E to CJTF SEVEN Operation Order No. 1-53

ARMY TASK GROUP SUMMARY OF TASKS

1. The following is a summary of continuing tasks to be accomplished by the Army Task Group during both the CASTLE buildup phase and the on-site operational phase. The Commander, TG 7.2 will:
  - a. Continue to discharge the responsibilities of CJTF SEVEN as ATCOM, ENIWETOK with respect to entry into the ENIWETOK/BIKINI area and ground defense of these atolls.
  - b. Be prepared to deploy elements of the atoll security force to reinforce the BIKINI garrison in the event of emergency.
  - c. Continue to operate all base facilities at ENIWETOK ISLAND, except those specifically allocated to CTG 7.4 and CTG 7.5, in accordance with existing agreements.
  - d. Provide communications facilities at BIKINI ATOLL as necessary to support AEC operations at that atoll.
  - e. Conduct port and stevedoring operations at ENIWETOK ATOLL with stevedoring assistance made available by CTG 7.5 in accordance with existing agreements.
  - f. Take measures to prevent unauthorized entry into exclusion areas, coordinating this activity with CTG 7.5.
  - g. Operate and maintain a TG 7.2 boat pool at ENIWETOK, taking cognizance of the Task Force Commander's concept of coordinated boat pool operations set forth in paragraph 8 of Annex B.
2. During the CASTLE buildup phase, CTG 7.2 will:
  - a. With capabilities provided by CTG 7.3, operate a TG 7.2 boat pool at ENIWETOK and an inter-atoll surface lift system within the forward area. Be prepared to relinquish operational control of the inter-atoll surface lift system upon commencement of the operational phase, as directed by CJTF SEVEN.
  - b. With capabilities provided by CTG 7.4, operate an inter-island airlift system at ENIWETOK ATOLL and BIKINI ATOLL and an inter-atoll airlift system to support joint task force elements in the forward area, and operate minimum airstrip facilities at BIKINI ATOLL as necessary to support TG 7.1 and TG 7.5 operations at that atoll. Be prepared to relinquish operational control of these activities upon commencement of the operational phase, as directed by CJTF SEVEN.
  - c. Maintain local search and rescue capabilities within the cognizance of the SAR area commander.
  - d. Prepare to support CTG 7.1 radiation monitoring and decontamination facilities.

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Army Task Group Summary of Tasks  
CJTF SEVEN No. 1-53

- e. Conduct liaison with CTG 7.5 to the end that support requirements for the preparation of ENIWETOK and the development of BIKINI are met.
3. In the accomplishment of his ultimate tasks during the operational phase, CTG 7.2 will:
- a. Provide and operate the overall military communications system for handling of all forward area task force inter-atoll and long-haul traffic (exclusive of air operations, air weather and internal naval communications and the TG 7.1 inter-atoll radio circuit).
- b. Provide support services for Headquarters, JTF SEVEN as required.
- c. Be prepared, upon directive from CJTF SEVEN, to conduct emergency post-shot evacuation from ENIWETOK ATOLL of all personnel based on ENIWETOK ISLAND.
- d. Provide monitoring and decontamination services indicated in Annex I.
- e. Support TG 7.1 as directed by CJTF SEVEN.
4. The following is a tabulation of military personnel and units to be made available to the Army Task Group. See Annexes F and G for Navy and Air Force elements to be provided to ATCOM, ENIWETOK, during the CASTLE buildup phase.

<u>MAJOR COMPONENT</u>	<u>PEAK STRENGTH</u>		<u>REMARKS</u>
	<u>Officer</u>	<u>EM</u>	
7126th AU (T/D)	74	993	Communications elements of 7126th AU to be at full strength by 1 Dec. 1953.
*Hq & Hq Det., 7126th AU	(29)	(161)	
*SV Det., 7126th AU	(20)	(218)	
*Sig Det., 7126th AU	(9)	(153)	
*MP Det., 7126th AU	(7)	(205)	
*Port Det., 7126th AU	(5)	(132)	
*Truck Det., 7126th AU	(4)	(124)	Requirement for DUKW operators to support TG 7.5 operations at Bikini not anticipated.
18th MP CID	1	4	
Prov. CIC Det.	8	0	
Communications Security Det. #1, 8607th AU	4	31	This unit to be on site approximately 1 Jan. 54.

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Army Task Group Summary of Tasks  
CJTF SEVEN No. 1-53

<u>MAJOR COMPONENT</u>	<u>PEAK STRENGTH</u>		<u>REMARKS</u>
	<u>Officer</u>	<u>EM</u>	
Boat Pool	1	21	
*3 Army H-13 Helicopters	(4)	(5)	To go under operational control of CTG 7.4 during operational phase.
TOTAL	88	1049	

\* This strength is included in 7126th AU figures and is, therefore, not included in the total.

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Major General, U.S. Army  
Commander

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*W. S. Cowart Jr.*  
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HEADQUARTERS, Joint Task Force SEVEN  
Washington 25, D. C.  
20 June 1953, 1600 R

Annex F to CJTF SEVEN Operation Order No. 1-53

NAVAL TASK GROUP SUMMARY OF TASKS

1. The following is a summary of tasks to be accomplished by the Naval Task Group in preparation for the ultimate CASTLE missions assigned to CTG 7.3.
  - a. Organize, equip and train a boat pool capable of augmenting the existing inter-island transportation at BIKINI during the operational phase.
  - b. As directed, provide necessary transportation for the establishment of outlying weather islands.
  - c. As directed, transport certain significant device components from the West Coast to the forward area by means of the USS CURTISS (AV-4). Arrange with CINCPACFLT for routing and suitable escort for the USS CURTISS when transporting device components.
  - d. Transport certain TG 7.4 aircraft from the West Coast to the forward area as directed.
2. In accomplishment of his ultimate tasks in the forward area, CTG 7.3 will:
  - a. Provide for the security of the ENIWETOK/BIKINI danger area in accordance with separate instructions from CJTF SEVEN.
  - b. Provide a capability for rapid surface movement of ground defense forces between ENIWETOK and BIKINI in the event of emergency.
  - c. At BIKINI, operate a boat pool, taking cognizance of the Task Force Commander's concept of coordinated boat pool operations set forth in paragraph 7 of Annex B. Be prepared to operate the boat pool from other task force ships when the LSD is engaged in transportation of experimental devices.
  - d. Upon commencement of the operational phase, assume responsibility for providing an inter-atoll surface transportation system to support joint task force elements in the forward area.
  - e. Assist in cargo handling operations at BIKINI as required.
  - f. Control harbor operations at ENIWETOK and BIKINI.
  - g. Detail two (2) PBMs and required personnel to CTG 7.4 who will operate a limited inter-atoll amphibious airlift service between ENIWETOK and BIKINI ATOLLS.
  - h. By means of amphibious aircraft and such other shipping as is available, provide transportation for limited resupply of weather stations, coordinating with CO, NAVSTA KWAJALEIN as necessary.

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Naval Task Group Summary of Tasks  
CJTF SEVEN No. 1-53

- i. Provide shipboard assembly facilities for the experimental devices and limited laboratory, shop and office space for TG 7.1.
- j. As directed, transport the experimental devices and the necessary barges and associated personnel between and within ENIWETOK and BIKINI ATOLLS. Conduct rehearsals of this activity as required.
- k. Provide suitable escort when transporting experimental devices between atolls.
- l. Operate a ship-to-shore and inter-island helicopter lift system at BIKINI to support pre-shot operations and post-shot flights for damage survey and recovery of scientific data. Be prepared to assist CTG 7.4 in the conduct of this activity at ENIWETOK upon conclusion of BIKINI operations. In this connection, take cognizance of the Task Force Commander's concept of coordinated airlift operations set forth in paragraph 6 of Annex B.
- m. Provide space on the CVE for a mobile radio-chemical laboratory, a photo-dosimetry laboratory and the associated operations of the radiological safety unit of TG 7.1.
- n. Be responsible for decontamination of all aircraft at BIKINI, assisted by CTG 7.1 ashore as required.
- o. Provide decontamination crews and facilities for TG 7.3 aircraft at ENIWETOK ATOLL, with limited assistance by CTG 7.4 as required.
- p. Provide shipboard command, control and communications facilities for CJTF SEVEN and staff; also provide administrative space for Hq, TG 7.1 and Hq, TG 7.5.
- q. Provide shipboard facilities to house the joint task force while afloat at BIKINI during those shots requiring pre-shot evacuation of personnel from the atoll. Provide for evacuation of materiel for shot KOON.
- r. Provide capability for emergency post-shot evacuation of personnel (for less than 48 hours) in those instances where pre-shot evacuation has not been conducted.
- s. With facilities available, be prepared to provide alternate emergency communications channels for the joint task force.
- t. Provide for radiological safety of embarked task force personnel during periods the joint task force is afloat.
- u. Provide facilities and aerological personnel aboard the AGC for the joint task force weather central and communications security monitoring personnel.
- v. When directed before each shot, patrol the significant sector out to 600 miles to detect any surface shipping.
- w. Be prepared to assist in conducting sample return operations by ferrying samples from BIKINI to ENIWETOK as required.

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Naval Task Group Summary of Tasks  
CJTF SEVEN No. 1-53

- x. Assist in positioning and mooring barges involved in the scientific program as directed.
  - y. Direct the movement of drone vessels during shot periods. Be prepared to assist in large scale decontamination of drone vessels and effects aircraft loaded thereon.
  - z. Place and recover floating devices for pressure and fall-out measurements.
  - aa. Assist CTG 7.4 in search and rescue operations as required.
  - bb. Provide CTG 7.2 with personnel augmentation as necessary to support TG 7.3 elements on ENIWETOK ISLAND.
  - cc. Support TG 7.1 as directed by CJTF SEVEN.
3. The Chief of Naval Operations has provided the following ships, small craft and aircraft for the support of Operation CASTLE.

<u>TYPE</u>	<u>NO.</u>	<u>IDENTIFICATION</u>	<u>ETA FWD AREA</u>	<u>MISSION &amp; REMARKS</u>
AGC	1	USS ESTES AGC-12	10 Feb 54	Command & control
AV	1	USS CURTISS AV-4	24 Jan 54	Transportation & assembly of weapons and devices.
LSD	1	USS BELLE GROVE (LSD-2)	20 Jan 54	TG 7.3 boat pool tender. Transportation of dewars and barges with weapons & devices
LST	2	USS LST 762 USS LST 551	Now in Forward Area 15 Jan 54	Inter-atoll lift. WX island supply.
ATF	5	USS APACHE ATF-67 USS SIOUX ATF-75 USS COCOFA ATF-101 USS MOLALA ATF-106 USS TAWAKONI ATF-114	16 Jan 54 to 26 Jan 54	Scientific projects and towing. One ATF reports West Coast 15 Oct for modification and drone ship rehearsals.
ARSD	1	USS GYPSY ARSD-1	15 Jan 54	"Tuna Can" Proj.
CVE	1	USS BAIROKO CVE-115	18 Jan 54	Post-shot reentry and security.
YAG	2	USS GEORGE EASTMAN YAG-39 USS GRANVILLE S HALL (YAG-40)	6 Feb 54	Drone vessels

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Naval Task Group Summary of Tasks  
CJTF SEVEN No. 1-53

<u>TYPE</u>	<u>NO.</u>	<u>IDENTIFICATION</u>	<u>ETA FWD AREA</u>	<u>MISSION &amp; REMARKS</u>
Task Group 7.3 boat pool in place and operational by 20 January 1954, consisting of the following craft:				
LCM	21			
LCP(L)	2			
LCP(R)	2			
LCU	5			
AVR	2			SAR. One AVR now at BIKINI. One now at ENIWETOK.
YCV	1	YCV-9	1 Feb 54	Helicopter landing platform.
YO	1	YO-120	Now in Forward Area	POL storage
YOGN	1	YOGN-82	Now in Forward Area	POL storage
YOG	1	YOG-61	15 Jan 54	POL storage. Now at KWAJALEIN.
YFN	1		1 Feb 54	Boat pool tender. Parts storage.

Task Group 7.3 Aircraft:

P4Y-2	1	BuNo 59763	1 Feb 54	"Tuna Can" Proj.
P2V-5	1	BuNo 124881	27 Jan 54	Drone vessel control.
HRS	10	HMR-362	15 Jan 54	Liaison & reentry
PBM-5A	2	BuNo 122080 BuNo 122471	15 Jan 54	Inter-atoll transport

4. The Commander-in-Chief, U.S. Pacific Fleet has provided the following ships and aircraft for security of the ENIWETOK-BIKINI area:

DDE	4	<u>CORTDES</u> DIV 12 USS EPPERSON DDE-719 USS NICHOLAS DDE-449 USS PHILIP DDE-498 USS RENSHAW DDE-499	15 Jan 54	Escort and security.
PC	1			Escort and security (Tentative).

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Naval Task Group Summary of Tasks  
CJTF SEVEN No. 1-53

<u>TYPE</u>	<u>NO.</u>	<u>IDENTIFICATION</u>	<u>ETA FWD AREA</u>	<u>MISSION &amp; REMARKS</u>
P4U-5N	6	VC-3	15 Jan 54	Security - CAP
P2V-6	6	VP-29	1 Jan 54	Security patrol of danger area.

CINCPACFLT has also provided an underwater detection unit for harbor protection (anti-submarine), to be in place by 10 January 1954.

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HEADQUARTERS, Joint Task Force SEVEN  
Washington 25, D. C.  
20 June 1953, 1600 R

Annex G to CJTF SEVEN Operation Order No. 1-53

AIR FORCE TASK GROUP SUMMARY OF TASKS

1. The following is a summary of tasks to be accomplished by the Air Force Task Group in preparation for the ultimate missions assigned to CTG 7.4.
  - a. Augment inter-island airlift at ENIWETOK and BIKINI commensurate with increased forward area activities.
  - b. Conduct liaison with CTG 7.1 to the end that necessary equipment modifications are accomplished and other technical requirements in support of the scientific program are met.
  - c. As directed by CJTF SEVEN, establish and operate joint task force weather stations at PONAPE, RONGERIK, MAJURO and KUSAIE.
  - d. As directed by CJTF SEVEN, prepare certain TG 7.4 aircraft for movement to the forward area aboard the CVE.
2. In accomplishment of his ultimate tasks in the forward area, CTG 7.4 will:
  - a. Provide, maintain and operate aircraft in support of the following scientific missions:
    - (1) Cloud sampling and cloud tracking.
    - (2) Measurement of blast, gust and thermal effects against aircraft.
    - (3) Light attenuation measurement.
    - (4) Non-technical photography.
    - (5) Airborne direction of sampling aircraft and such other aircraft as may be specified.
  - b. Conduct weather reconnaissance flights to provide joint task force weather central with required data.
  - c. Operate an inter-atoll air transportation system between ENIWETOK and BIKINI, to include C-47 flights to KWAJALEIN and other atolls as required.
  - d. Utilizing liaison aircraft and helicopters, operate an inter-island airlift system at ENIWETOK ATOLL, taking cognizance of the Task Force Commander's concept of coordinated airlift operations as set forth in paragraph 6 of Annex B.
  - e. As required, detail helicopters and personnel to CTG 7.3 who will operate an inter-island airlift system at BIKINI from aboard the CVE. In this connection, take cognizance of the Task Force Commander's

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Air Force Task Group Summary of Tasks  
CJTF SEVEN No. 1-53

concept of coordinated airlift operations set forth in paragraph 6 of Annex B.

- f. Conduct administrative flights in connection with the joint task force mission and the maintenance of flying proficiency of rated joint task force personnel.
  - g. Provide search and rescue coverage in the forward area, with assistance by CTG 7.3 and within the cognizance of the SAR area commander.
  - h. Conduct flights for official observers as required by CJTF SEVEN.
  - i. Provide personnel for the joint task force weather central.
  - j. Install, operate and maintain an air operations control center on ENIWETOK ISLAND and provide supervisory personnel for the joint task force air operations center aboard the command ship during shot periods at BIKINI.
  - k. Provide and operate complete terminal facilities for MATS transport operations at ENIWETOK, coordinating this activity with CTG 7.2.
  - l. Provide Airways and Air Communications Service (AACS) as required in support of joint task force operations.
  - m. Operate all facilities on ENIWETOK ISLAND and BIKINI as relate to the operation of aircraft, except for POL storage facilities at both locations.
  - n. Provide CTG 7.2 with personnel augmentation as necessary to support TG 7.4 at ENIWETOK ISLAND.
  - o. Provide decontamination crews and facilities for TG 7.4 aircraft at ENIWETOK ATOLL and assist CTG 7.3 in aircraft decontamination as required.
  - p. Support TG 7.1 as directed by CJTF SEVEN.
3. It is anticipated that the Chief of Staff, U.S. Air Force, will provide personnel and equipment to perform the missions indicated below and necessary services to support Operation CASTLE.

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Air Force Task Group Summary of Tasks  
CJTF SEVEN No. 1-53

HEADQUARTERS  
TASK GROUP 7.4  
35 Officers      61 Airmen.

TEST SUPPORT UNIT	TEST AIRCRAFT UNIT	TEST SERVICES UNIT
4930 TS Group 4931 TS Squad. 4932 TS Squad. Bikini Detachment  67 Off.    543 Amn	Sample and Control Detachment Effects & Director Detachment  100 Off.    296 Amn	MATS Aircraft and Services  115 Off.    517 Amn
Airbase Operations  Inter-island Airlift  Inter-atoll Airlift  Administrative and MIT Aircraft  Augmentation of CTG 7.2	Cloud Sampling  Blast and Thermal Measurements  Sampling Direction	Weather Reconnaissance  Weather Forecasting  Cloud Tracking  Communications  Search and Rescue  MATS Terminal Operations  Documentary Photography

<u>AIRCRAFT</u>	<u>AIRCRAFT</u>	<u>AIRCRAFT</u>
15 L-13 Liaison  6 L-20 Liaison  *7 H-19A Helicopters  *3 H-13 Helicopters (Army)  *4 C-47  1 C-54 (CJTF)  1 B-25 (CTG 7.4)	15 F-84G Samplers  1 B-36 Director  1 B-36 Effects  1 B-36 High altitude sampler with possible B-57 augmentation	10 WB-29  2 SA-16  1 RB-50 for Documentary Photography  3 C-54 or C-119 for Documentary Photo- graphy

\* 3 Army Helicopters,  
4 C-47 aircraft and  
3 H-19 Helicopters under operational  
control of CTG 7.2 during CASTLE  
buildup phase.

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Washington 25, D. C.  
20 June 1953, 1600 R

Annex H to CJTF SEVEN Operation Order No. 1-53

AEC BASE FACILITIES TASK GROUP SUMMARY OF TASKS

1. The following is a summary of tasks to be accomplished by the AEC Base Facilities Task Group in preparation for the ultimate CASTLE missions assigned to CTG 7.5.
  - a. Continue to engineer and construct all base and test facilities at the Pacific Proving Ground to support the joint task force and the AEC and its contractors in the conduct of test operations. Continue to operate and maintain certain of these base facilities in accordance with existing agreements and local arrangements with CTG 7.1 and ATCOM, ENIWETOK.
  - b. Provide CJTF SEVEN with planned peak strengths, forward area phasing, on-site locations and inter-atoll movements of TG 7.5 elements.
  - c. As soon as practicable, submit to CJTF SEVEN recommendations on means of movement of device components to the forward area.
  - d. Submit recommendations to CJTF SEVEN on exclusion areas and limited access areas, coordinating these recommendations with CTG 7.1.
2. In accomplishment of his ultimate tasks in the forward area, CTG 7.5 will:
  - a. Conduct necessary liaison with CTG 7.2 to enable him to discharge his responsibilities toward traffic control and preventing unauthorized entry into exclusion areas.
  - b. Operate, manage and direct camp facilities at BIKINI and on all islands of ENIWETOK ATOLL, except ENIWETOK ISLAND, to include the following:
    - (1) Provide subsistence, quarters, laundry, medical, recreational and other camp services on all islands, except ENIWETOK ISLAND where these services are provided by CTG 7.2.
    - (2) Operate land transportation service at BIKINI and on all islands of ENIWETOK ATOLL, except ENIWETOK ISLAND and except in those circumstances where the use of vehicles assigned to units is appropriate.
    - (3) Operate all utilities on all islands excepting the POL farm on ENIWETOK ISLAND and certain military communications facilities on ENIWETOK ISLAND and BIKINI ATOLL.
  - c. Operate and maintain local communications systems at BIKINI and in certain areas at ENIWETOK.
  - d. Assist CTG 7.2 in the conduct of port and stevedoring operations at ENIWETOK in accordance with existing agreements.

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AEC Base Facilities Task Group Summary of Tasks  
CJTF SEVEN No. 1-53

- e. Conduct port and stevedoring operations at BIKINI.
  - f. Operate and maintain a TG 7.5 boat pool at ENIWETOK and BIKINI ATOLLS, taking cognizance of the Task Force Commander's concept of coordinated boat pool operations set forth in paragraph 8, Annex B.
  - g. Be responsible for removal of TG 7.5 personnel (and supporting military personnel) from BIKINI ATOLL.
  - h. When directed by CJTF SEVEN, evacuate TG 7.5 personnel (and supporting military personnel) from BIKINI ATOLL.
  - i. Be prepared, upon directive from CJTF SEVEN, to conduct emergency post-shot evacuation of TG 7.5 personnel from ENIWETOK ATOLL.
  - j. Assist CTG 7.1 in decontamination of AEC facilities and equipment as necessary.
  - k. Augment the shipboard housekeeping personnel of CTG 7.3 with such personnel as necessary to support TG 7.1 and TG 7.5 elements afloat.
  - l. Provide support services for Headquarters, JTF SEVEN as required.
  - m. Support TG 7.1 as directed by CJTF SEVEN.
3. Under existing AEC-DOD agreement, military personnel will not be assigned to the AEC Base Facilities Task Group. See Annexes E, F and G for overall military forces to be made available by the Services as approved by the JCS for use during Operation CASTLE.

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HEADQUARTERS, Joint Task Force SEVEN  
Washington 25, D. C.  
20 June 1953, 1600 R

Annex I to CJTF SEVEN Operation Order No. 1-53

RADIOLOGICAL SAFETY

1. Radiological safety of all task force military and civilian personnel is a command responsibility and radiological safety activities will be performed through normal command channels.
2. The Commander, Joint Task Force SEVEN will:
  - a. Specify the measures necessary to insure the radiological safety of task force personnel and furnish technical advisory assistance to task group radiological safety officers.
  - b. Inform CINCPAC of radiological hazards which may exist in areas outside of task force responsibility.
  - c. Maintain an information center (RadSafe Office) with displays of current air and surface radexes, radiological situation maps of atolls and peripheral aerial and surface areas and such other allied data as may be appropriate.
  - d. Designate monitors and couriers to accompany radioactive and special cargo shipments on sample return aircraft, and monitor loading and unloading of such cargo.
3. Prior to the on-site operational phase, task group commanders will:
  - a. Organize radiological safety units or elements within their task groups.
  - b. Require radiological safety personnel to review radiological safety procedures employed on previous operations and become thoroughly acquainted with existing training measures through attendance at appropriate Service schools.
  - c. Require radiological safety personnel to become qualified in the calibration and testing of standard RADIAC equipment.
  - d. Procure complete allowances of RADIAC equipment and special clothing. The requirements of CTG 7.5 will be included in the allowances for CTG 7.1 for necessary issue to TG 7.5 personnel during the operational phase and for subsequent loan or sale to CTG 7.5 for post-operational use at the proving ground.
4. The Commander, TG 7.1, having major technical radiological safety unit, will prepare to perform the following radiological safety services at ENIWETOK and BIKINI ATOLLS (using space provided by CTG 7.3 at BIKINI):
  - a. All ground monitoring services associated with scientific missions except those in conjunction with aircraft and airborne collection of scientific data.

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Radiological Safety  
CJTF SEVEN No. 1-53

b. Laboratory services and technical assistance to all task groups, to include:

(1) Procurement of film badges and specified supplementary items of personnel radiological safety equipment.

(2) Laboratory services to develop and interpret film badges.

(3) Records of exposures from film badges. (Duplicates will be furnished task group commanders).

(4) Laboratory services for the radio-chemical analysis of water samples.

(5) Provision of primary facilities at PARRY ISLAND radiological safety building for calibration, repair and maintenance of instruments and storage of spare parts of RADIAC equipment. Similar limited facilities will be maintained at BIKINI during the operational phase at that atoll.

(6) Monitoring the removal and packaging of radioactive sources and samples except as indicated in paragraph 4a above.

c. Provision of radiological safety surface situation maps after shot times to the task force commander and the the task groups requiring the information.

d. Procurement and issuing of special high density goggles to specified personnel of the task force.

e. Procurement of radiological safety clothing as necessary for TG 7.1, TG 7.5 and specified recovery personnel.

f. Provision of technical personnel to inspect radiologically contaminated items for all task groups and certify destruction, disposal, or unserviceability of such items as required.

g. Provision of personnel and equipment decontamination facilities for RadSafe survey and recovery operations.

h. Limited fall-out studies within the Pacific Proving Ground for radiological safety documentation only.

i. Assumption of radiological safety responsibilities of TG 7.5 during the overseas phase of operation.

j. The integration within TG 7.1 of key radiological safety personnel made available by CTG 7.5. Such personnel will assist CTG 7.1 during the operational phase and will be assigned duties amenable to training in the fundamental radiological safety services to be assumed by CTG 7.5 upon completion of the overseas phase of the operation.

5. The Commander, TG 7.2 will prepare to perform the following:

a. All ground monitoring services associated with ENIWETOK ISLAND,

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except in those areas or activities assigned to other task groups.

b. Provision and training of own radiological safety monitors, 50 of which will be "Q" cleared for emergency monitor support of TG 7.1 if required.

c. Provision and training of own contamination personnel, 10 of which will be designated for emergency decontamination support of TG 7.1 if required.

d. Provision of own RADIAC equipment and protective clothing.

e. Provision of own repair, spare parts and calibration facilities for RADIAC equipment.

f. Provision of contaminated clothing laundry facilities for TG 7.4.

6. The Commander, TG 7.3 will prepare to:

a. Provide and train own radiological safety monitors, including one airborne monitor for each multi-engine aircraft crew assigned to TG 7.3.

b. Provide own RADIAC equipment and protective clothing.

c. Provide monitors and decontamination crews aboard each ship within the task group.

d. Provide own repair, spare parts and calibration facilities for RADIAC equipment.

e. While task force is embarked, provide space for use of the radiological safety unit of TG 7.1.

f. Assume responsibility for decontamination of all aircraft at BIKINI ATOLL, assisted by CTG 7.1 ashore, as required.

g. Provide decontamination crews and facilities for own aircraft at ENIWETOK ATOLL. Limited assistance will be furnished by CTG 7.4, if required.

h. Provide necessary helicopter air service for radiological surveys and post-shot recovery operations (monitors furnished by TG 7.1).

i. Provide water spray equipment aboard all vessels likely to be in the fall-out area.

j. Collect lagoon water samples.

7. The Commander, TG 7.4 will prepare to:

a. Provide and train own radiological safety monitors, including one airborne monitor for each multi-engine aircraft crew assigned TG 7.4.

b. Provide own RADIAC equipment and protective clothing.

c. Provide own repair, spare parts and calibration facilities for RADIAC equipment.

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- d. Provide primary decontamination crews and facilities for aircraft at ENIWETOK ISLAND, ~~and limited crews and facilities at the BIKINI air strip.~~
  - e. Assist TG 7.3 in aircraft decontamination with TG 7.4 equipment, if required.
  - f. Provide necessary helicopter and liaison air service for radiological surveys and post-shot recovery operations (monitors furnished by TG 7.1).
  - g. Provide monitoring services for the removal and packaging of radioactive samples or data collected by aircraft.
  - h. Provide cloud tracking aircraft for post-shot radiological safety "situation data" up to radius of 500 miles in the significant quadrant for period of 48 hours, starting at approximately H plus 6 hours for each shot. (See para. 2c(3) of Annex J).
  - i. Promulgate the air radex for each shot.
  - j. Establish a simple code to be used in conjunction with the periodic weather reconnaissance reports to report approximate air radiation intensities encountered on regularly established weather reconnaissance or cloud tracking flights.
8. The Commander, TG 7.5 will prepare to:
- a. Develop a schedule of requirements for radiological safety services required from CTG 7.1.
  - b. Provide and train key radiological personnel for integration into and training with the radiological safety organization of TG 7.1 during the overseas phase of the operation. The total number and qualifications of such personnel will be as determined necessary by CTG 7.5 commensurate with the assumption of responsibilities indicated in 8c, below.
  - c. Assume residual task force radiological safety functions at the Pacific Proving Ground upon completion of the overseas phase of the operation. Required equipment and supplies will be made available at that time, to CTG 7.5 on a loan or sale basis from stocks provided by CTG 7.1.
9. Training. The inclusion of radiological safety organizations throughout the task force will require two general levels of training; basic indoctrination and technical training. The scope of instruction within each of these levels will vary in accordance with the requirements of different operational and staff levels. Basic indoctrination will include primary, non-technical instruction in radiological safety measures and techniques. This must be imparted to all personnel of the task force to enable them to perform their assigned duties efficiently within the allowable low exposures, regardless of the presence of radioactive contaminants. Technical training will include the training of the majority of the personnel who will be required to staff the task force radiological safety organizations and perform

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the technical operations involved. This will be accomplished through the utilization of existing Service courses and establishment of suitable courses at task group level. This instruction will be designed to train radiological defense monitors, decontamination personnel and radiological instrument repairman.

P. W. CLARKSON  
Major General, U.S. Army  
Commander

Appendix:

I - Radiological Safety Regulations

OFFICIAL:

  
WILLIAM S. COWART JR.  
Colonel, U.S. Air Force  
Assistant Chief of Staff, J-3

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Washington 25, D. C.  
20 June 1953, 1600 R

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Appendix to Annex I  
Radiological Safety, CJTF SEVEN Operation Order No. 1-53

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RADIOLOGICAL SAFETY REGULATIONS

1. The Maximum Permissible Exposure (MPE) for personnel involved in this operation is 3.9 roentgens, gamma only, unless reduced because of previous or anticipated future exposure. All exposure to external gamma radiation will be regarded as total body irradiation. Special MPE of 20 roentgens, gamma only, is authorized for crew members of air sampling aircraft. The maximum permissible exposures as stated above are applicable to a field experimental test of nuclear devices in peacetime, wherein numbers of personnel engaged in these tests have been previously exposed or will be continuously exposed to potential radiation hazards. It may become necessary from a study of personnel records to reduce the MPE for certain individuals who have participated recently in other atomic tests. Under a military tactical situation or emergency the maximum permissible exposures above do not apply.
2. All atoll land and lagoon areas in or near which a detonation takes place will be considered contaminated until cleared for operations by the task force commander. Entry to and exit from contaminated areas will be via RadSafe check points only.
3. Contaminated land areas of intensities greater than 100 mr/hr will be delineated as such; Personnel entering these areas must be accompanied by a monitor and will be subject to clearances by the RadSafe Officer, TG 7.1. RadSafe clothing and equipment will be issued to the personnel.
4. Contaminated land areas of intensities less than 100 mr/hr and greater than 10 mr/hr will be controlled areas; Personnel entering these areas will be subject to clearance by the RadSafe Officer of TG 7.1. Monitors will not be required for entry into these controlled areas.
5. Contaminated land areas of intensities less than 10 mr/hr will be considered unrestricted from a RadSafe viewpoint. Areas coming within this limitation will be designated specifically by CJTF SEVEN prior to unrestricted entry.

RadSafe monitors assigned to individuals or groups working in contaminated areas or with contaminated equipment during recovery operations will act in an advisory capacity to keep the recovery party leader informed of radiation intensities at all times. The recovery party leader is expected to accept this advice and act accordingly. It is the responsibility of both the leader and the members of the recovery party to adhere to the limits established in these regulations.

Film badges, dosimeters and protective clothing (coveralls, booties, caps, gloves, dust respirators, etc.) as deemed necessary will be issued to personnel entering contaminated areas by appropriate task

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by [redacted] of the [redacted] on [redacted]  
Per William D. Rance 25 Aug. 1954  
By James E. Dyer 26 Aug. 1954*

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group RadSafe supply sections.

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8. All personnel within viewing distance of an atomic detonation who are not supplied with protective goggles will turn away from the detonation point and close their eyes during the time of burst. At least 10 seconds should be allowed before looking directly at the burst.
  9. The arrival and proposed use of radioactive sources at the Pacific Proving Ground will be reported to the Task Force Radiological Safety Officer.
  10. All samples of radioactive material which are couriered in aircraft will be packaged and loaded so as to reduce radiation to a minimum. The RadSafe Officer of TG 7.4 will have a survey made of the package to determine if adequate precautions have been taken. The following criteria will determine space and packaging requirements:
    - a. Prior exposure of aircraft and courier personnel.
    - b. Anticipated future exposures on trip.
    - c. Length of time of exposure on trip.
    - d. In all cases, crew members will be limited to exposure rates of less than 20 mr/hr.
  11. All air and surface vehicles or craft used in contaminated areas will be checked through the appropriate task group decontamination section upon return from such areas.
  12. The Maximum Permissible Limits (MPLs) of contamination listed herein are to be regarded as advisory limits for control of contamination under average conditions, and are subject to revision by waiver from the task force commander in individually designated cases when extenuating circumstances indicate the need and justification therefor. All readings of surface contamination are to be made with Geiger counters, with tube walls not substantially in excess of 30 mg/cm<sup>2</sup> with shield open. The surface of the probe should be held one (1) inch to two (2) inches from the surface that is under observation unless otherwise specified. In all cases other than emergency or tactical situations the ultimate criteria will be limited by the authorized MPEs for personnel, with measurements made using standard equipment and techniques for such exposure. Special instances may arise after shot time such as in the case of an air-sea rescue within the atoll lagoon and inside the surface radex in which rescue operations will be carried out without regard to the radiological hazard. Monitors aboard rescue craft shall be required to determine the extent of the actual radiation hazard experienced in order that appropriate medical tests may be initiated. For emergency operations, the criteria prescribed for tactical situation (para. 13 below) will be used as a guide. For operational purposes the MPLs presented below will not be considered applicable to spotty contamination provided such areas can be effectively isolated from personnel.
    - a. Personnel and clothing MPLs are as follows:

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(1) Skin readings should not be more than 1 mr/hr. Complete decontamination by bathing will be utilized for readings in excess of this level. Beta radiation exposure to the hands should not exceed 30.0 rep/week.

(2) Underclothing and body equipment such as the internal surfaces of respirators should be reduced to 2 mr/hr.

(3) Outer clothing should be reduced to 7mr/hr.

b. Vehicle MPLs: The interior surfaces of occupied sections of vehicles should be reduced to 7 mr/hr. The outside surfaces of vehicles should be reduced to less than 7 mr/hr, gamma only, at five (5) or six (6) inches from the surface.

c. Ship and Boat MPLs:

(1) Operational clearances, implying that contamination exists and special procedures are required, will normally be granted by commanding officers on the technical advice of radiological defense staff members. In peacetime, a maximum fixed contamination level of 300 mr/week ordinarily will not be exceeded except for "Operational Necessity". For this operation an MPL of 600 mr/week will be used as the upper limit for "operational necessity" unless otherwise specifically raised or lowered. Fixed alpha contamination should not exceed 500 cpm (counts per minute) per 150 cm<sup>2</sup> of area.

(2) For ships and boats operating in contaminated waters, reasonable allowances will be made to differentiate between the relative contribution to the total flux from fixed contamination and that due to "shine" from contaminated waters. For this operation it will be assumed that not more than ten percent of the radiation flux entering the vessel through the sides is due to contamination which will remain fixed on the vessel upon reentry to uncontaminated waters. Ships and boats encountering levels of contamination greater than determined by the above will request special instructions.

(3) Final clearances, normally granted by commanding officers, will be given upon completion of the operation provided no point of contamination is greater than 15 mr/day (beta and gamma) and no detectable alpha exists.

(4) In general, boats operating in waters near shot islands after shot times may become contaminated. Monitors shall be aboard all boats operating after shot time, either as passengers or members of the boat crew, until such time as radiological restrictions are lifted.

(5) No ships with personnel shall be permitted inside the 1.5 P.S.I line unless specifically directed otherwise. Bearings of danger from immediate radioactive fall-out for ship operations will be established by CJTF SEVEN on the basis of forecast wind directions at the intended time of detonation. This danger section will be designated as surface radex. All ships of the task force shall be required to remain outside the surface radex - danger bearing, radial limitation and time restriction. However, if ships are directed tactically

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into the surface radex, movement of ships shall be governed by tactical exposure guides.

(6) Individuals on board ships of the task force shall be protected collectively from hazards of blast, heat and radioactivity by movement of the ships.

(7) It is desired to point out that the employment of the ships and units in TG 7.3, insofar as radiological safety is concerned, is not considered routine usage within the purview of NavMed P-1325, "Radiological Safety Regulations." Current revision of NavMed P-1325 indicates that its provisions will not apply for special operations such as field tests and that for such operations naval personnel will operate under regulations set forth by the task force commander. The regulations set forth herein have been designed as a reasonable and safe compromise considering conservation of personnel exposures, the international import of tests and the cost aspects of shot delays chargeable to excessive radiological precautions.

d. Aircraft MPLs:

(1) The interior surfaces of occupied sections of aircraft should be reduced to 7 mr/hr.

(2) No aircraft in the air at H Hour will be at slant ranges from ground zero less than as determined by the following effects unless specifically directed otherwise. (Based on maximum predicted yield and 20 mile visibility):

- Blast (at predicted shock arrival): 0.5 p.s.i.
- Thermal (H Hour): Fabric control surfaces: 1.0 cal/cm<sup>2</sup>
- Metal control surfaces: 6.0 cal/cm<sup>2</sup>

After detonation no aircraft shall operate inside the air radex or closer than 10 nautical miles from the rising or visible cloud unless specifically directed otherwise. If a tactical or emergency situation arises where aircraft must enter the air radex, tactical exposure allowance shall apply.

(3) All multi-engine task force aircraft in the air at H Hour within 100 miles of the detonation point shall carry a person designated as radiological safety monitor equipped with suitable RADIAC equipment and a radex plot. This monitor shall be capable of calculating allowable exposures under both tactical and operational conditions.

(4) All persons in aircraft at shot time, or at subsequent times when engaged in operations in or near the cloud or radex track, shall wear film badges.

(5) Pilots and copilots of aircraft in the air at shot time shall use modified all-purpose .1 density filter goggles. Copilots should, as an extra precaution, cover their eyes with forearm at zero hour.

e. In air and water the following continuous levels of radioactivity are considered safe from the viewpoint of personnel drinking and breathing: (uc = microcurie).

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	<u>Beta or Gamma Emitter</u>	<u>Long-lived Alpha Emitters</u>
Water	$5 \times 10^{-3}$ uc/cc (at H-3 days)	$10^{-7}$ uc/cc
Air	$10^{-6}$ uc/cc	$5 \times 10^{-12}$ uc/cc

NOTE: In air for any 24 hour period after a shot,  $10^{-4}$  uc/cc of which particles less than 5 microns shall not exceed  $10^{-6}$  uc/cc).

13. All radiological safety operations for Operation CASTLE will be considered as routine and will comply with permissible radiological exposures for routine work, except "special operations" which must be specifically designated by CJTF SEVEN. In tactical situations the military commander must make the decision regarding allowable exposures. As military personnel are normally subject to only random exposure, health hazards are at a minimum. Current Department of Defense information on exposure to gamma radiation in tactical situations is indicated below:
- a. Uniform acute (immediate) exposure of 50 roentgens to a group of Armed Forces personnel will not appreciably affect their efficiency as a fighting unit.
  - b. Uniform acute exposure of 100 roentgens will produce in occasional individuals nausea and vomiting, but not to an extent that will render Armed Forces personnel ineffective as fighting units. Personnel receiving an acute radiation exposure of 100 or more roentgens should be given a period of rest and individual evaluation as soon as possible.
  - c. Uniform acute exposure of approximately 150 roentgens or greater can be expected to render Armed Forces personnel ineffective as troops within a few hours through a substantial incidence of nausea, vomiting, weakness and prostration. Mortality produced by an acute exposure of 150 roentgens will be very low and eventual recovery of physical fitness may be expected.
  - d. Field commanders should, therefore, assume that if substantial numbers of their men receive acute radiation exposures substantially above 100 roentgens there is a grave risk that their commands will rapidly become ineffective as fighting units.
  - e. Internal radiation hazards caused by entry of radioactive substances through the mouth, through the lungs or through cuts or wounds do not exist after an air burst. Internal hazards following a contaminating surface explosion may be avoided if ordinary precautions are taken. Only under unusual circumstances will there be internal hazard from residual contamination. This eliminates the necessity for masking and consequent reduction of tactical efficiency.
14. This appendix has been designed for reduced security classification in order to facilitate wide dissemination.

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*William S. Cowart Jr.*  
 WILLIAM S. COWART, JR.  
 Colonel, U.S. Air Force  
 Assistant Chief of Staff, J-3

P. W. CLARKSON  
 Major General, U.S. Army  
 Commander

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20 June 1953, 1600 R

Annex J to CJTF SEVEN Operation Order No. 1-53

WEATHER PLAN

1. Organization and Mission of Weather Element of JTF SEVEN

a. The Commander, Task Group 7.4 will organize, man, train, administer and logistically support:

- (1) A task force weather central.
- (2) A ground weather observation network (outlying weather stations).
- (3) An aircraft weather reconnaissance unit.

The ground weather observation unit and the aircraft weather reconnaissance unit will be under the operational control of the Commander, Task Group 7.4, while the Commander, Joint Task Force SEVEN will retain operational control of the task force Weather Central.

b. Weather Central

(1) The task force Weather Central will be located on ENIWETOK ISLAND until such time as CJTF SEVEN transfers his command post to the command ship. At that time the task force Weather Central will be established aboard the AGC. However, a forecasting and observing section will remain on ENIWETOK to provide the necessary weather service for that location during the time the task force Weather Central is afloat.

(2) The task force Weather Central is responsible for:

(a) The collection, evaluation and presentation of basic weather information.

(b) The preparation of weather and upper air forecasts for the task force commander.

(c) Providing operational forecasts, flight clearances and such other weather information and services in the area as may be appropriate.

(d) Coordinating the operational effort of the outlying weather stations and the weather reconnaissance aircraft.

c. Outlying Weather Stations

(1) In addition to the existing weather network in the Pacific Ocean area, observation stations will be established at KUSAIE, RONGERIK, MAJURO and PONAPE for the purpose of providing surface and upper air data necessary to meet the peculiar demands of the operation.

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(2) Outlying stations will be responsible for taking surface and upper air observations in accordance with current procedures and for the transmission of observations to the task force Weather Central.

d. Aircraft Weather Reconnaissance Unit. The aircraft weather reconnaissance unit will be based on ENIWETOK and will be responsible for obtaining inflight weather observations in accordance with current procedures along tracks and at times requested by the task force Weather Central.

2. Weather Services Required of JTF SEVEN Weather Units

a. Weather Central. The task force Weather Central will:

(1) Collect, plot, analyze and display weather information covering the Pacific Ocean area, with emphasis on the Central Pacific and MARSHALL ISLANDS.

(2) Prepare briefing charts and forecasts for use in the joint task force headquarters.

(3) Issue operational forecasts to JTF SEVEN subordinate commands as required.

(4) Coordinate the aircraft weather reconnaissance effort with respect to tracks to be flown.

(5) Coordinate the operational effort of the outlying land stations.

(6) Assume overall responsibility for informing participating units in Operation CASTLE of tropical storms and typhoons in accordance with existing area directives. All observations, advisories and warnings transmitted will contain information addressees as follows: CINCPAC, plus cognizant Navy and Air Force weather centrals in the Pacific Ocean area.

(7) Establish full scale operations on or before the first shot; minus thirty-five (35) days.

(8) Plan to remain fully operational for a period of 120 days.

b. Outlying Stations. Completely self-contained weather reporting stations capable of taking and transmitting comprehensive surface and upper air observations will be established at RONGERIK, MAJURO, PONAPE and KUSAIE. Personnel and equipment will be assembled by the first shot, minus 90 days, for an on-site operation of 120 days. All stations will be in place and fully operational on or before the first shot, minus 35 days.

c. Aircraft Weather Reconnaissance Unit. The aircraft weather reconnaissance unit must have the capability of fulfilling the following requirements for an on-site operational period of approximately 100 days:

(1) Two (2) weather missions each day of approximately 12 hours

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duration, commencing on first shot minus 20 days.

(2) Three (3) weather missions each day of approximately 12 hours duration, commencing on shot minus 4 days.

(3) Post-shot missions in connection with radiological safety, consisting of 2 missions each day of approximately 12 hours duration, from shot day until shot plus 2 days.

(4) Be prepared for possible delays in the operation which may extend the requirements listed in subparagraph (2) above for an additional 3 days.

(5) Beginning on 25 January 1954, assume typhoon reconnaissance responsibility in the area bounded by the Equator, latitude 25°N, the meridian of 180° and longitude of 157°31'E. The joint task force Weather Central will coordinate this effort.

d. Weather Units Afloat

(1) Weather units afloat comply with existing weather directives in the Pacific Ocean area when operating outside a 50 miles radius of the task force flagship.

(2) Command ship aerological personnel will be assigned to duty in the task force Weather Central afloat.

(3) The Commander, Task Group 7.3 will be expected to make additional special weather observations when requested. The aerological units aboard ships assigned to his group can fulfill this requirement.

e. Anti-submarine Aircraft. Anti-submarine patrol aircraft under the operational control of CTG 7.3 will transmit special weather observations every half hour, using a special code. Amplifying instructions and training will be provided prior to commencement of overseas operations.

f. Instructions of General Application

(1) Warnings and advisories for typhoons or other storms will be assigned "EMERGENCY" (0) precedence.

(2) For purposes of standardization, typhoon readiness conditions are defined in the Pacific Ocean area as follows:

Condition III. Typhoon winds or winds of 50 knots or more are anticipated within 48 hours.

Condition II. Typhoon winds or winds of 50 knots or more are anticipated within 24 hours.

Condition I. Typhoon winds or winds of 50 knots or more are anticipated within 12 hours.

g. Relay of Weather Reports. The Chief, Task Force Weather Central, will insure that all weather reports from outlying stations and

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weather reconnaissance aircraft are delivered promptly to AACS at ENIWETOK for transmission on the Pacific Ocean area weather broadcast network.

3. a. Weather Communications Available to this Force

(1) CW - Net circuit between the Weather Central and outlying islands. Circuits for intercept of Pacific weather broadcasts and aircraft reports in the Weather Central.

(2) RTTY - Intercept of Pacific broadcasts in the Weather Central.

(3) Voice - Circuit between the Weather Central and WB-29 aircraft (available at specified times only).

(4) Radio Facsimile - Standard receiving equipment in the Weather Central.

b. General. Times, frequencies and contents of the Pacific Ocean area weather broadcasts are available in current Navy and Air Force publications.

4. Weather Reconnaissance Tracks. Tracks to be flown will be established by separate directive prior to commencement of overseas operations.

5. Special Weather Codes. Special weather codes for either land stations or reconnaissance aircraft will be established by separate directive prior to commencement of overseas operations.

P. W. CLARKSON  
Major General, U.S. Army  
Commander

Appendix:

- I - Location Chart of Weather Units
- II - Weather Organization Chart

OFFICIAL:

*W. S. Cowart Jr.*  
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Colonel, U.S. Air Force  
Assistant Chief of Staff, J-3

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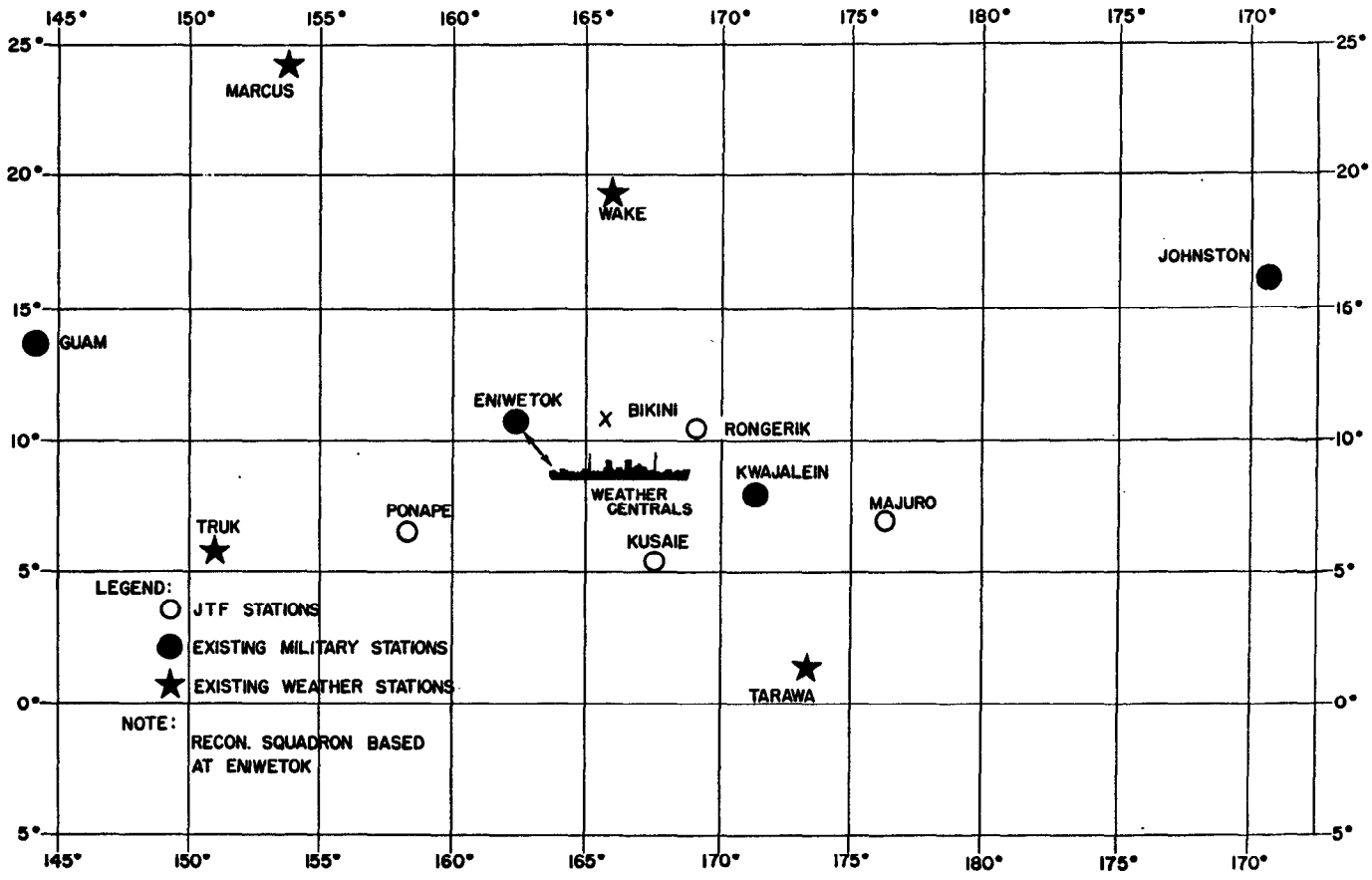


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### LOCATION CHART OF WEATHER UNITS JOINT TASK FORCE SEVEN

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Washington 25, D. C.  
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Appendix I to Annex J  
Weather Plan, CJTF SEVEN Operation Order No. 1 - 53



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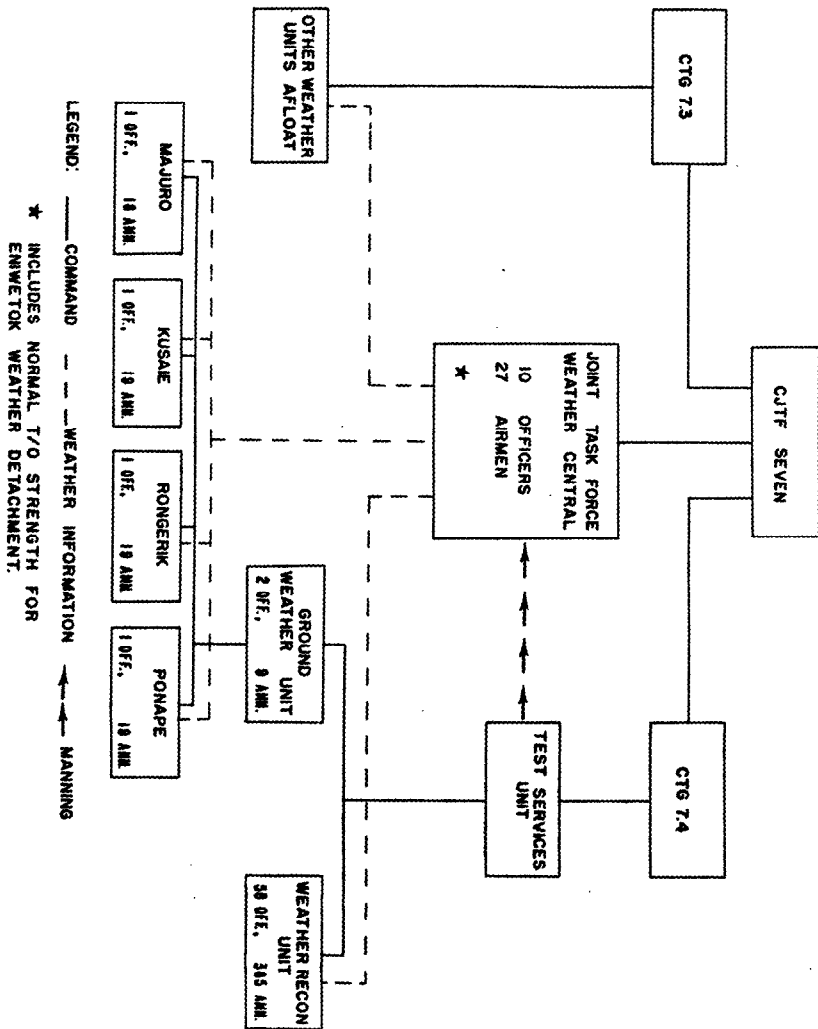
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Weather Plan, CJTF SEVEN Operation Order No. 1-53

WEATHER ORGANIZATION CHART, JOINT TASK FORCE SEVEN



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Annex K to CJTF SEVEN Operation Order No. 1-53

ADMINISTRATIVE AND LOGISTICS

1. General. Administrative instructions not covered herein are published in joint task force SOPs.
2. Personnel Administration
  - a. Military personnel of Joint Task Force SEVEN will be administered by the unit to which they are assigned or attached for administrative and logistical support in accordance with applicable Service directives and policies of CJTF SEVEN.
  - b. Civilian personnel of the task force will be administered in accordance with procedures and directives established by the units with which on duty and by the directives of their employing organizations.
  - c. Military and civilian administrative matters which cannot be readily handled through normal channels and procedures will be referred to CJTF SEVEN.
  - d. Task group commanders will forward administrative correspondence and reports through Headquarters, JTF SEVEN, for transmittal to the appropriate Services, unless otherwise directed.

3. Mailing Addresses

a. Official

(1) Zone of Interior Interim Phase:

Commander  
Joint Task Force SEVEN  
Washington 25, D. C.

Commander  
Task Group 7.1  
P.O. Box 1663  
Los Alamos, New Mexico

Commander  
Task Group 7.2  
APO 187, c/o Postmaster  
San Francisco, California

Commander  
Task Group 7.3  
U.S. Naval Gun Factory  
Building 126  
Washington 25, D. C.

Commander  
Task Group 7.4  
Kirtland Air Force Base  
Albuquerque, New Mexico

Commander  
Task Group 7.5  
Santa Fe Operations Office  
Albuquerque, New Mexico

(2) Forward Area Operational Phase:

Commander, Joint Task Force SEVEN  
APO 187 (HOW), c/o Postmaster  
San Francisco, California

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Administrative and Logistics  
CJTF SEVEN No. 1-53

Commander, Task Group 7.1  
APO 187 (HOW), c/o Postmaster  
San Francisco, California

Commander, Task Group 7.4  
APO 187, c/o Postmaster  
San Francisco, California

Commander, Task Group 7.2  
APO 187, c/o Postmaster  
San Francisco, California

Commander, Task Group 7.5  
APO 187 (HOW), c/o Postmaster  
San Francisco, California

Commander, Task Group 7.3  
APO 187 (HOW), c/o Postmaster  
San Francisco, California

b. Units or Individuals, Military and Civilian

(1) Stationed on ENIWETOK ISLAND:

Name  
Company, Unit (c/o H&N) (AEC or other designation)  
APO 187, c/o Postmaster  
San Francisco, California

(2) Stationed on PARRY ISLAND and Islands North of PARRY and BIKINI:

Name  
Company, Unit (c/o H&N) (AEC or other designation)  
APO 187 (HOW), c/o Postmaster  
San Francisco, California

4. Personnel Telegrams

a. The Signal Officer, TG 7.2 will arrange with the Signal Officer, USARPAC for the transmission of personal emergency and EFM messages over the Signal Corps channels from ENIWETOK, M.I. to Hq, USARPAC for commercial refile to the ZI. This service will be available to all personnel on duty in the forward area.

b. Personnel embarked on naval vessels may originate Class E personal messages in accordance with directives of commanding officers.

c. Incoming prepaid personal telegrams addressed to APO 187 and APO will be transmitted by commercial radio and cable companies to the Communications Center, USARPAC, Honolulu, T.H. for retransmission by electrical channels to ENIWETOK ATOLL and KWAJALEIN respectively.

d. Instructions for telegrams apply to all personnel, civilian and military, under the jurisdiction of CJTF SEVEN. These facilities will be made available only when airmail will not suffice.

5. Civil and Criminal Law Enforcement. The Department of the Interior is charged with civil and criminal law enforcement in the Trust Territories of the Pacific Islands. The Department of the Interior has agreed to deputize two (2) Holmes and Narver (AEC contract) employees as deputy marshals, with station on ENIWETOK ATOLL. The High Commissioner, Office of Trust Territories of the Pacific Islands, Honolulu, T.H., will administer civil and criminal law enforcement on the atoll and the atoll commander will render assistance as required.

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6. Release, Rotation and Replacement of Personnel

a. Request for release of personnel for other than rotation purpose will be forwarded to the Commander, Joint Task Force SEVEN for processing.

b. A policy of one (1) year tour of duty at ENIWETOK for Army personnel has been established by the Department of the Army.

(1) An extension of foreign tour, not to exceed six months, may be granted enlisted personnel by CTG 7.2, where necessary, in the furtherance of the mission. Where an extension is desired which will cause the enlisted individual to remain on a tour of duty in excess of eighteen months, it will be forwarded to the Commander, JTF SEVEN for final approval and forwarding indorsement will outline cogent reasons for recommending approval.

(2) Request for extension of tours of duty for Army officer personnel on ENIWETOK ATOLL beyond the initial twelve months period will be forwarded to CJTF SEVEN for approval.

(3) Requisitions for Army enlisted personnel will be prepared in accordance with SR 615-60-10 and submitted so as to reach Headquarters, JTF SEVEN not later than the 10th day of each month. Requisitions for Army officer personnel for the task force will be prepared in accordance with SR 605-60-25 and submitted so as to reach the headquarters not later than the 25th day of each month.

c. Replacements for naval personnel of the ENIWETOK garrison force will be furnished by CcmServPac.

d. Replacements for Air Force personnel of the ENIWETOK garrison forces will be furnished by the Air Force Special Weapons Center, Kirtland Air Force Base, New Mexico.

7. Non-appropriated Funds. The atoll commander will adopt such portions of the policies and procedures prescribed by AR 210-50 and SR 210-50-1 as are applicable for the administering of non-appropriated funds. In cases not covered by regulations, appropriate policies, procedures and control will be established by him. For this purpose the atoll commander is considered as commander of a major command outside the continental limits of the United States.

8. Leave of Absence

a. Task Group 7.2 Personnel. Leaves of absence during overseas tour will, in general, be authorized in emergencies only and in accordance with appropriate Service directives. If desirable, personnel granted leaves of absence for emergency reasons may be recommended from further duty with Joint Task Force SEVEN and reported to the appropriate command for reassignment. Enlisted personnel of the Army and Air Force released from duty with Joint Task Force SEVEN for other than inefficiency or disciplinary reasons may be granted not to exceed 30 days leave of absence or delay enroute, if accrued, to the replacement center for new assignment.

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b. Delay Enroute While in a TDY Status

(1) Army and Air Force personnel of Headquarters, JTF SEVEN, Task Groups 7.1, 7.2 and 7.4 may be granted delay enroute, chargeable as leave, when such delay does not interfere with the accomplishment of the assigned missions.

(2) Authority for delay enroute while in a TDY status for naval personnel of Headquarters, Joint Task Force SEVEN, Task Groups 7.1, 7.2 and 7.3 will not be granted by this task force but authority for such delays will be requested from the Bureau of Naval Personnel on individual basis.

9. Personal Affairs. See SOP 34-1, dated 20 November 1951.
10. Medical Examinations. See Appendix III to this annex.
11. Logistics - General. Logistical support of task force elements prior to arrival in the forward area will be provided in accordance with the following:
- a. The respective Services, through the appropriate field commanders, will provide logistical support for normal functioning of military elements of the task force.
  - b. The AEC will provide logistical support for the normal functioning of the AEC elements of the task force.
  - c. Logistical support beyond that contemplated above will be arranged by the task force headquarters in coordination with the military Services and/or the AEC.
12. Requirements for Materiel and Services
- a. Task group commanders are responsible for the determination and submission of requirements for materiel and services for their respective task groups.
  - b. Requirements for which the parent Service or department of a task group has procurement and supply responsibility will be requisitioned in accordance with existing instructions of that Service or department.
  - c. Requirements for which the parent Service or department of a task group does not have procurement and supply responsibility will be processed as follows:
    - (1) Requirements for military materiel and services will be submitted to task force headquarters.
    - (2) Requirements of a scientific nature will be submitted to the Commander, Scientific Task Group. Military elements of the task force will route such requirements through task force headquarters.
  - d. Requirements will be submitted promptly to afford supporting agencies the maximum possible lead time. "On-site" requirements, to

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the extent foreseeable, will be submitted at least 6 months prior to required date.

13. Procurement of Materiel and Services

- a. Task group commanders are authorized to procure commercially, within the limitations of available funds, essential materiel and services which are not available from military or AEC sources.
- b. Procurement will be accomplished through existing procurement agencies of the DOD and/or the AEC.
- c. Procurement with task force funds will be in accordance with current Armed Forces procurement regulations.
- d. Procurement problems which cannot be resolved by the task groups will be referred to CJTF SEVEN.

14. Property Control

- a. Task group commanders are responsible for adequate measures to maintain, safeguard and account for all property issued to or otherwise acquired by their task groups.
- b. Except as otherwise indicated below, property in custody of the task force will be accounted for in accordance with established procedures of the using activity.
- c. Property which is lost, damaged or destroyed while in custody of the task force will be accounted for in accordance with established procedures of the owning agency.
- d. Where the loan of property to the task force is conditioned upon specific terms, task group commanders are responsible for strict adherence to such terms.
- e. Task group commanders will designate one or more qualified individuals as accountable officers (responsible officers for TG 7.1 and TG 7.5) to account for and supervise the care and use of military property entrusted to their respective task groups. The names of such individuals will be furnished to Headquarters, JTF SEVEN.
- f. The lending of property between the military and the AEC elements of the task force is authorized and encouraged where such action will result in an economy of funds.

15. Transportation

- a. Movement Control. This headquarters is responsible for movement control of all task force personnel and cargo and is the consolidating agency for all requirements, for shipping space, for personnel and cargo via air and/or water transportation to the forward area and return.
- b. Areas of Operation

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Administrative and Logistics  
CJTF SEVEN No. 1-53

(1) Outbound

- (a) U.S. to OAHU, T.H., KWAJALEIN ISLAND, M.I., BIKINI ATOLL, M.I. and ENIWETOK ISLAND, M.I.
- (b) OAHU, T.H. to KWAJALEIN, BIKINI and ENIWETOK.
- (c) KWAJALEIN to BIKINI and ENIWETOK.

(2) Inbound

- (a) ENIWETOK to BIKINI, KWAJALEIN, OAHU and U.S.
- (b) KWAJALEIN to OAHU and U.S.
- (c) OAHU to U.S.

c. Ports of Embarkation/Debarcation (ZI)

(1) Water

- (a) Cargo: Naval Supply Center (NSC), Oakland, California  
Domestic Address:  
Freight Terminal Department  
Naval Supply Center  
Oakland, California  
  
San Francisco Port of Embarkation (SFPE), Oakland  
Army Base, California  
Domestic Address:  
Port Transportation Officer  
San Francisco Port of Embarkation  
Oakland, California
- (b) Personnel: Navy Pier 7, San Francisco, California  
  
San Francisco Port of Embarkation, Fort Mason,  
California
- (c) Ammunition and Explosives: Naval Magazine, Port Chicago,  
California  
Domestic Address:  
Receiving Officer  
U.S. Naval Magazine  
Port Chicago, California  
FOR  
Freight Terminal Department  
Naval Supply Center  
Oakland, California

(2) Air

- Personnel and Cargo: Travis Air Force Base, California  
Domestic Address:  
Air Freight Officer  
Travis Air Force Base, California

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CJTF SEVEN No. 1-53

d. Requirements

(1) Air

(a) The determination of passenger and cargo requirements for air transportation will be governed by the provisions of SOP 76-3 of 13 March 1953. The submission of requirements will be in accordance with SOP 172-403, dated 16 January 1952. Task Force Headquarters will retain sole control over all tonnage allocations assigned to JTF SEVEN and in cases of emergency will direct the utilization of such allocations as the necessity requires.

(b) The scheduling of airlift will be governed by the provisions of SOP 76-2, dated 21 December 1951.

(c) All air traffic must meet the eligibility requirements specified by pertinent Army, Navy and Air Force publications.

(2) Water

(a) The determination of passenger and cargo requirements for surface transportation will be in accordance with SOP 75-2A, dated 3 March 1952. The submission of requirements will be in accordance with SOP 172-407, dated 7 January 1952.

e. Marking and Shipment of Supplies and Equipment. Marking and shipment of supplies and equipment to the forward area will be in accordance with SOP 75-1 (as amended), dated 17 March 1952.

f. Bookings. To insure availability of suitable passenger space (both air and water) and to permit firm bookings, task group commanders will comply with the provisions of SOP 172-406.

g. Liaison Officers - Transportation (Movement Control)

(1) Task force liaison officers and/or movement control agencies (JTF LNO or MCA) are located at NSC, Oakland, California; Travis Air Force Base, California; Hickam Air Force Base, T.H. and Kwajalein, M.I.

(2) Liaison officers are local representatives of Headquarters, JTF SEVEN in all matters concerning the task force. Movement control agencies represent the task force on matters pertaining to movement of task force personnel and cargo through both water and aerial ports.

(3) Liaison and movement control officers are responsible for the coordination of the expeditious movement of task force personnel and cargo through both the water and aerial ports to which they are assigned.

(4) Task group commanders will assign additional liaison officers and enlisted personnel as required to the Naval Supply Center, Oakland, California; Travis Air Force Base, California; Hickam Air Force Base, T.H. and Kwajalein, M.I. Activities of task group liaison personnel will be coordinated by the JTF SEVEN liaison officers. Task group liaison personnel will coordinate and expedite the movement of cargo and personnel of their respective task groups through water

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and aerial ports of embarkation and/or debarkation and may represent their task group commanders in other areas of responsibility as directed by the task group commander.

h. Security Clearances

(1) Air. In all cases of personnel movements to ENIWETOK ATOLL and BIKINI ATOLL (other than inter-atoll movements) by means of military aircraft, the task group commander concerned will originate a message to CINCPAC, with information to ATCOM, ENIWETOK, COMPACDIVMATS, CO NAVSTA KWAJALEIN (JTF MCA, KWAJALEIN) and JTF SEVEN liaison officers at NSC, Oakland, California; Travis Air Force Base, California, and Hickam Air Force Base, T.H. This message will be dispatched prior to departure of personnel from home stations and will contain:

- (a) Full name of each individual concerned.
- (b) Rank or rate.
- (c) Whether permanent change of station or, if temporary duty, duration of such duty.
- (d) A statement that the originator considers the individual a good security risk in accordance with CINCPAC Serial 020.

The following action addressees will be informed by PRIORITY precedence: CINCPAC, JTF SEVEN LNO HICKAM AFB TH, JTF SEVEN MCA KWAJALEIN MI and JTF SEVEN LNO TRAVIS AFB CALIF. The following information addressees will be informed by ROUTINE precedence: CJTF SEVEN WASHDC, ATCOM ENIWETOK MI, COMPACDIVMATS HICKAM AFB TH and JTF SEVEN LNO NSC OAK CALIF.

(2) Water. In the case of personnel movements to ENIWETOK ATOLL by water, the task group commander concerned will originate a similar message to the JTF SEVEN LNO at Oakland, California. This message will be dispatched prior to departure of personnel from home station and will contain the information required in subparagraphs 5h(1)(a) to (d), inclusive. The Liaison Officer, NSC, Oakland, California, will then comply with CINCPAC security instructions and procedures as published in CINCPAC serial 020 (Confidential), dated 1 April 1952.

(3) The Commander, Task Group 7.2 will comply with CINCPAC Serial 020 as it pertains to personnel permanently assigned to TG 7.2. Commanding officers of organizations departing from home stations for ENIWETOK ATOLL as members of TG 7.2 will comply with the provisions of subparagraphs 5h(1) and (2) above, as pertinent. Joint task force liaison officers located at NSC, Oakland and Travis Air Force Base, California, will comply with CINCPAC Serial 020 as it pertains to replacement personnel for TG 7.2 departing from continental U.S.

16. Budgeting. Joint Task Force SEVEN operations during the period covered by this operation order will be funded in the same manner as during Operation IVY. The division of funding responsibilities within the DOD will be according to the concepts in the "Memorandum of the Assistant Secretary of Defense, Comptroller, dated 9 March 1953", attached as Appendix I to this annex. The agreement between the DOD

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and the AEC for support of operations has been revised as of 1 January 1953 and is attached as Appendix II. Budget estimates submitted to CJTF SEVEN will take into account the responsibilities of the three military Services and of the AEC for support of the task force to the end that task force funds are not requested for purposes other than those intended. Budget estimates will be submitted as directed in specific letters of instruction issued by the Commander, Joint Task Force SEVEN. Additional unforeseen fund requirements may be submitted, with proper justification, by task group commanders at any time.

17. Fiscal. Fiscal accounting and reporting procedures will be those prescribed for the Department of the Army in Army and Special Regulations of the 35 series. For the purpose of these regulations, task groups will be considered at installation level and Headquarters, JTF SEVEN at the operating agency level.
18. Finance.
  - a. The Commander, TG 7.2 will be responsible for provision of disbursing service for all Army, Navy and Air Force military and civilian personnel of the task force at ENIWETOK and BIKINI ATOLLS and at the weather stations. To facilitate accomplishment of this mission, the TG 7.2 disbursing office will be augmented by assignment of Air Force enlisted personnel. Disbursing service for task force naval personnel afloat will be the responsibility of CTG 7.3. Disbursing service, as referred to herein, will include maintenance of military pay accounts, payment of travel claims of military and DOD civilian personnel, cashing of authorized negotiable instruments and exchange of checks or Disbursing Officer's Military Payment Orders for cash to individuals or non-appropriated funds.
  - b. Reports of surveys on lost, damaged or destroyed government property will be prepared and processed in accordance with the existing Service regulations. For the purposes of Army and Air Force regulations, the task group commanders are considered installation level commanders and CJTF SEVEN the reviewing authority. All concerned are enjoined to comply with the provisions of Service regulations governing prompt initiation of reports of survey where required upon discovery of loss, damage or destruction of government property.
19. Audits. Audits of military property accounts will be accomplished by representatives of the Auditor General of the Air Force and the Chief of the USARPAC Audit Agency in the case of Air Force and Army accounts respectively. Audit schedules will be as provided by Service regulations, modified as requested by CJTF SEVEN. Specific instructions are provided in CJTF SEVEN SOP 175-1 and SOP 175-2. Navy accounts will be inspected as provided by Navy directives.
20. Cost Accounting and Reporting. Procedures for accumulating and reporting cost data are prescribed in SOP 171-1.
21. Reports Control. Recurring and one-time controlled reports are

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governed by the provision of SOPs of the 172 series.

P. W. CLARKSON  
Major General, U.S. Army  
Commander

Appendix:

- I - Memo, Ass't SecDef (Compt) of 9 March 1953
- II - AEC-DOD Agreement dated 1 January 1953
- III - Medical Examinations

OFFICIAL:

*Robert H. Cushing*  
ROBERT H. CUSHING  
Colonel, U.S. Army  
Acting Chief of Staff

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HEADQUARTERS, Joint Task Force SEVEN  
Washington 25, D. C.  
1 June 1953, 1600 R

Appendix I to Annex K  
Administrative and Logistics, CJTF SEVEN Operation Order No. 1-53

ASSUMPTIONS FOR OPERATING EXPENSES OF ATOMIC WEAPONS TESTS

(ASSISTANT SECRETARY OF DEFENSE, Comptroller)

"ASSISTANT SECRETARY OF DEFENSE  
Washington 25, D. C.

Comptroller

9 March 1953

MEMORANDUM FOR: THE SECRETARY OF THE ARMY  
THE SECRETARY OF THE NAVY  
THE SECRETARY OF THE AIR FORCE  
CHAIRMAN, JOINT CHIEFS OF STAFF  
CHAIRMAN, RESEARCH AND DEVELOPMENT BOARD  
CHAIRMAN, MILITARY LIAISON COMMITTEE  
CHIEF, ARMED FORCES SPECIAL WEAPONS COMMAND  
JOINT TASK FORCE COMMANDERS

SUBJECT: Assumptions for Operating Expenses of Atomic Weapons  
Tests

The attached assumptions are approved as a basis for the division of funding between the Services and the Task Force, and are approved with the understanding that this list is not all inclusive but is an outline of the distinction between normal operating expenses which will be financed by the Services and extra expenses which are to be financed out of funds made available to the Task Force Commander.

These assumptions supersede similar assumptions covered by a memorandum to the Chief of the Armed Forces Special Weapons Project under date of 12 January 1951, which is hereby rescinded.

It is requested that addressees give these assumptions sufficiently wide circulation via appropriate internal channels so that all personnel within departments and agencies who may deal with atomic test matters or the support thereof will be equally informed.

/s/ W. J. McNEIL  
W. J. McNeil

Attachment

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DIVISION OF FUNDING  
BETWEEN THE SERVICES AND THE TASK FORCE

1. The following are "Normal Service Operating Expenses" and will be financed by the Services:

- a. Pay and allowances of all service personnel.
- b. All costs of subsistence of service personnel.
- c. Cost of special clothing normally furnished service personnel when employed in severe climates.
- d. Cost of travel and transportation of personnel to first Task Force duty station upon initial assignment and travel and transportation from last Task Force station to next regular duty assignment. All costs of travel and transportation of the member, his family, and household goods incidental to a permanent change of station when assigned to or relieved from assignment to the Task Force.
- e. Medical and dental services for military personnel.
- f. Ships, aircraft, boats and other standard equipment and supplies necessary for the operation, including maintenance, parts, POL and consumable supplies required in support of the Department of Defense participation.
- g. Packing, handling and transportation to Task Force of equipment and supplies furnished by the Services for the support of the Task Force.

2. The following are "Extra Expenses" and are to be financed out of funds made available direct to the Task Force Commander, provided facilities, equipment or modification are not to be continued in use by the Service after completion of the Task Force requirement:

- a. Costs of modification to and subsequent restoration of equipment, aircraft, or ships requested by the Task Force Commander.
- b. Costs of activation and subsequent inactivation of ships, aircraft and small craft requested by the Task Force Commander.
- c. Costs of construction and rehabilitation of existing structures and facilities at the test site required by the operations of a Task Force Commander in connection with approved Department of Defense test programs.
- d. Cost of transportation of personnel attached to the Task Force and traveling under orders of the Task Force Commander, including costs of temporary duty travel as well as any permanent changes of station travel other than those covered in 1.d. above while assigned to the Task Force.
- e. Administrative expenses incurred by Task Force and Task Force Headquarters.

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- f. Cost of equipment required for the operation of the Task Force which is not standard to any of the military services.
- g. Costs of packing, handling and shipment of special equipment required by Task Force (as distinguished from such cost relating to Service support).
- h. Costs of materiel or services required by the Task Force Commander from activities operated under working capital funds, regardless of the department which is executive agent for the activity."

Certified a true copy:

  
J. M. RUDDY  
Colonel, U.S. Army  
Comptroller, JTF SEVEN

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HEADQUARTERS, Joint Task Force SEVEN  
Washington 25, D. C.  
1 June 1953, 1600 R

Appendix II to Annex K  
Administrative and Logistics, CJTF SEVEN Operation Order No. 1-53

"AGREEMENT BETWEEN  
ATOMIC ENERGY COMMISSION AND DEPARTMENT OF DEFENSE  
ON  
RESPONSIBILITIES AND FISCAL ACCOUNTING PRINCIPLES  
FOR  
OPERATIONS AT PACIFIC PROVING GROUNDS

1 January 1953

A. PURPOSE

1. The purpose of this agreement is to provide a mutually satisfactory, general framework within which the Atomic Energy Commission and the Department of Defense may, on an equitable basis, delineate primary responsibilities of each agency and budget and fund costs for joint AEC-DOD operations at the Pacific Proving Ground.
2. This agreement supersedes all previous agreements on this subject.

B. GENERAL

1. Except as modified by specific paragraphs below, the costs of the various test projects connected with the operation shall be borne by the agency establishing the specific project scope and requirements.
2. The costs of test projects of mutual interest to both agencies will be prorated in proportion to the degree of interest.
3. Such equipment as is reasonably available from the stocks of either agency will, upon request, be furnished to the other agency on a loan basis at no cost except that of operating, safeguarding, and maintaining the equipment. The AEC will not, in general, request through military channels equipment available from commercial sources. The user will not be held responsible for normal wear and tear but will exercise adequate control and care of the equipment.

Equipment on loan which is lost, destroyed, or damaged beyond economical repair will be accounted for under the existing regulations of the owning agency. The borrowing agency will not be responsible for payment for any equipment on loan which is lost, destroyed, or damaged beyond economical repair, except where such loss, destruction, or damage results from willful misconduct, gross negligence, or failure to exercise good faith on the part of an employee of the borrowing agency, or on the part of a corporate officer or the person having entire supervision of the work at the Pacific Proving Ground of a contracting firm of the borrowing agency.

4. The loan of marine craft is a special case and is governed by a

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joint AEC-Department of Navy agreement outlined in OPNAV 4000.10A (7-1-53) as follows:

Effective this date, the following terms and conditions will apply to any loans of craft made in the future by the Navy Department to the Atomic Energy Commission. In addition, these terms and conditions will be applicable to Navy craft in the custody of the Atomic Energy Commission as of this date, insofar as applicable.

1. The Navy Department, upon request of the Atomic Energy Commission, will lend to the AEC such craft as can be made available and as are required in the prosecution of projects which are the responsibility of the AEC. Loan of such craft shall be made on custody receipt without charge for the capital value of the craft.
2. The AEC will provide funds on request by the Navy for activation, if required, and for preparing for operation and tow, if necessary, any craft made available to the AEC, including funds to procure additional spare parts and accessories required for operation of the craft. Normal overhead will be charged for this work.
3. Delivery of craft that are loaned to the AEC under this agreement will be on a "where is" basis. Where practicable, available Navy transport will be used to redeploy craft. However, any expenses beyond normal Navy operating expenses, incurred in redeployment of craft, will be borne by AEC. Return delivery of these craft will be at the point of original transfer or at a point mutually agreed upon.
4. a. The Atomic Energy Commission shall be responsible for the operation, protection, security, repair, and maintenance of all craft loaned to it by the Navy while such craft are in its custody or the custody of others acting for the Commission.  
  
b. To assure that craft in the custody of the Atomic Energy Commission under the terms of this agreement are maintained at satisfactory Navy standards, they will be subject to the routine materiel inspection normally conducted by the Navy for naval craft. The scheduling of these inspections will be mutually agreed upon by representatives of the Navy and the AEC in the field.
5. a. Upon transfer of Naval craft from the Navy to the AEC and return of such craft to the Navy by the AEC, joint inspections of craft so transferred or returned will be conducted. Such inspections will be conducted by an appropriate board appointed by the Commander in Chief, U.S. Pacific Fleet and composed of both Navy and AEC members. The reports of the above board will be itemized in sufficient

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detail to enable allocations to be made, upon return of craft to the Navy, of repair costs properly chargeable to each party in conformance with this agreement. These reports will be forwarded to the Bureau of Ships via the Naval command from which the craft are obtained and the Commander in Chief, U.S. Pacific Fleet with copies of the original and all endorsements to the Chief of Naval Operations, AEC Washington, other AEC agencies and Naval material bureaus as appropriate. The work to be performed in repairing craft and allocation of costs properly chargeable to each party for that work will be resolved by the above boards in the field, and only such items which cannot be resolved satisfactorily by them will be referred to the Chief of Naval Operations and the Atomic Energy Commission. The AEC is responsible for funding only the costs necessary to restore craft to a material condition comparable to that existing when received. In determining the costs chargeable to AEC consideration will be given to the effects of normal wear and tear. Subsequent to July 1, 1953, normal overhead will be included in computing costs chargeable to the AEC.

b. If subsequent to commencing repairs on craft the Navy determines that additional work is necessary beyond that agreed to initially by the above joint boards, the AEC shall not be responsible for any portion of the funds covering the additional work until such time as a joint board as outlined above has convened and agreed to an apportionment of the additional costs between the Atomic Energy Commission and the Navy.

c. The Atomic Energy Commission shall not be liable for payment for loss of Naval craft in its custody. Final action by the Department of the Navy to strike a craft will likewise relieve the AEC from obligation to effect repairs to that particular naval craft.

6. Any craft loaned to the AEC, if required for Navy use prior to completion of the work for which obtained, shall be returned to Navy custody upon request on thirty days' notice.
5. The transfer of subsistence in kind at the Pacific Proving Ground between the AEC and the military is authorized. Each agency will reimburse the other at prices established by mutual agreement for meals eaten ashore by its personnel in the messes of the other. To this end, appropriate records will be kept at both AEC and Armed Forces messes which will permit periodic reconciliation of accounts. Reimbursement for meals furnished on board ship will be established by Navy and MSTs directives.
6. Cross-servicing is authorized between elements of the Department of Defense and the AEC and its contractors. Specific authorization will be issued in accordance with standards mutually agreeable to the Santa Fe Operations Office and the Joint Task Force.

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The cost of reimbursable work performed in connection with cross-servicing authorizations will be accumulated and billed in accordance with the standard accounting practices of the performing Department or Agency.

7. Decision on interpretation of these provisions or on allocation of specific costs shall be the joint responsibility of the Task Force Commander for the DOD and the Manager, SPOO for the AEC.
8. This agreement will be extended by supplemental agreement to apply to areas subsequently added to the Pacific Proving Ground.

C. COSTS AND RESPONSIBILITIES TO BE ASSUMED BY THE AEC

1. Cost of construction of all base facilities at Pacific Proving Grounds required by the AEC for military and AEC support of test operations.
2. Maintenance of all base facilities (buildings, structures, installed equipment, roads and airstrips, piers, POL and utility systems, and communications systems) which have been provided by the AEC for support of test operations, except that the Department of Defense will be responsible for the maintenance of communication facilities on Eniwetok Island and a joint communications center on Parry Island.
3. Operation of all fixed plant and utility systems (power, water, sewage, POL and communications) provided by the AEC for support of test operations, except that the Department of Defense will be responsible for operating the communications and POL systems on Eniwetok Island.

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4. Cost of all equipment, supplies and material purchased by the Armed Forces at the specific request of the AEC.
5. Cost of modifications of material and equipment when such modifications are made at the specific request of the AEC, except that modifications to ships and aircraft may be subject to mutual agreement as to the pro rata share of cost.
6. All normal AEC administrative expense, including salaries, subsistence, per diem, etc., of personnel employed by the AEC and its contractors in connection with the AEC's projects and programs.
7. Cost of expendable supplies furnished to the AEC and its contractors from military stocks.
8. Packing, handling, and crating charges of Armed Forces material and equipment requested by the AEC.
9. Operation of boats, tugs, and barges for loading or offloading supplies, materials, and equipment from ships at Pacific Proving Grounds.
10. Operation of all mess halls on all islands of the atoll, except Eniwetok Island and the JTF Commander's personal mess on Parry Island.
11. Operation of land transportation facilities on all islands of the Pacific Proving Grounds except Eniwetok Island.
12. Operation of a boat pool for essential inter-island and ship-to-shore services.
13. All costs of experimental projects of primary interest to the AEC except where jointly funded by mutual agreement.

D. RESPONSIBILITIES AND COSTS TO BE ASSUMED BY THE DEPARTMENT OF DEFENSE

1. Cost of construction of facilities at Pacific Proving Grounds required exclusively for support of Armed Forces experimental projects.
2. The costs of all equipment, materials, and supplies furnished by the Armed Forces except the costs of such items when they are purchased at the specific request of the AEC, and except the costs of expendable supplies furnished the AEC or its contractors from military stocks.
3. Transportation of all personnel, equipment, and supplies between Continental U.S. and the Pacific Proving Grounds by militarily controlled transportation, except that the AEC will pay charges for packing, crating, and, except at Eniwetok Island, handling items intended for AEC use.
4. Operations of all Armed Forces components assigned to the Joint Task Force.
5. All normal Armed Forces administrative expense, including pay, subsistence, and travel of all personnel, both civilian and military, employed by the Armed Forces with the exception that the

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AEC will reimburse the DOD for travel and subsistence of those Armed Forces civilian employees on loan to the AEC and performing functions in its behalf.

6. All costs of experimental projects of primary interest to the Armed Forces except where jointly funded by mutual agreement.
7. Operation of POL systems on Eniwetok Island.
8. Operation and maintenance of all communications systems and equipment on Eniwetok Island.
9. Stevedoring labor and equipment, except marine craft and craft operators, for loading and offloading supplies, materials, and equipment from ship-to-shore at Eniwetok Atoll during operations. All on-shore cargo handling will be performed by the military on Eniwetok Island and by the AEC on all other islands.
10. Operation of liaison aircraft for necessary inter-island travel at the atoll for the military and AEC and its contractors; however, necessary aircraft dispatchers on islands other than Eniwetok will be furnished by the AEC.
11. Operation of necessary search and rescue service.
12. During the operational phase provide a Navy boat pool to support the added operational load.
13. Operation and maintenance of AEC equipment and material which may be loaned to the Armed Services.

E. COST REPORTING PRINCIPLES

1. The Task Force Commander shall specify the programs and projects for which cost data are required.
2. The programs and projects will be clearly defined to permit accurate cost accounting.
3. The cost data to be furnished by the AEC and the three participating military agencies will be based on uniform principles as agreed upon between the Task Force Commander and the Manager, Santa Fe Operations Office.
4. Each agency or department will report monthly all costs by programs and projects. These reports will be submitted, in agreed form, to the Task Force Commander so that a consolidated report can be made therefrom.

F. FUNDING PRINCIPLES

1. Department of Defense
  - a. For the purpose of facilitating the most economical and efficient operation, funding will be by appropriation of the executive agent.
  - b. Funding responsibilities will be assigned to the Task Force Commander under such regulations as prescribed by the Secretary of Defense.

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2. Atomic Energy Commission

- a. Funding will be by allocation from AEC appropriations.
- b. Funding responsibilities will be assigned to the Manager, Santa Fe Operations Office, under regulations prescribed by the General Manager.

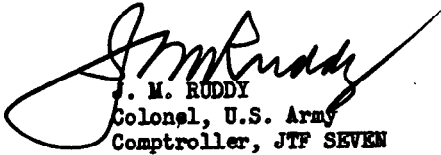
G. CHANGES

- 1. The terms and conditions of this agreement may be changed at any time by mutual agreement of the Commander, Joint Task Force on behalf of the Department of Defense, and the Manager, Santa Fe Operations on behalf of the Atomic Energy Commission."

APPROVED: /s/ K. E. Fields  
 K. E. FIELDS  
 Brigadier General, USA  
 Director of Military Application  
 U.S. Atomic Energy Commission

APPROVED: /s/ P. W. Clarkson  
 P. W. CLARKSON  
 Major General, USA  
 Commander  
 Joint Task Force 132

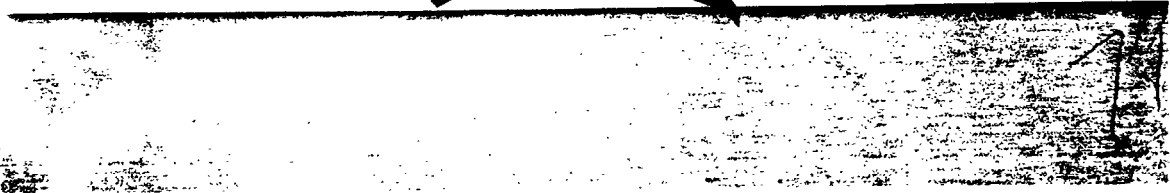
Certified a true copy:

  
 J. M. RUDDY  
 Colonel, U.S. Army  
 Comptroller, JTF SEVEN

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HEADQUARTERS, Joint Task Force SEVEN  
Washington 25, D. C.  
20 June 1953, 1600 R

Appendix III to Annex K  
Administrative and Logistics, CJTF SEVEN Operation Order No. 1-53

MEDICAL EXAMINATIONS

1. Pre-Examinations. There is no specific requirement for pre-test physical examinations either among military or civilian personnel participating in the operation. It shall, however, be the command responsibility of program directors, project leaders and other supervisory personnel to assure themselves that the personnel under their supervision are in good health, physically able to withstand the stresses and strains of the operation. This refers to all participating personnel and not only to those who may plan to enter contaminated areas. It is strongly recommended that those who have not undergone a routine physical examination within one year should do so.
  
2. Disqualifying Conditions. Any person suffering from one of the following conditions should automatically be regarded as disqualified from participation in the operation:
  - a. Active tuberculosis
  - b. Epilepsy
  - c. Diabetes
  - d. Cancer or other malignant disease
  - e. Mental disease or serious emotional disturbance
  - f. Bronchial asthma
  - g. Anemia or other disease of the blood
  - h. Any known disease of the heart or circulatory system
  - i. Any contagious disease
  - j. Peptic ulcer
  - k. Any condition requiring a special diet
  - l. Any person depending on an artificial leg
  - m. Fungus infection of the skin

Any other significant sickness or disability or requests for waivers in unusual cases should be referred to the Scientific Director, Field Manager or Task Force Commander, as appropriate, who will in turn refer it to his medical advisor.
  
3. Previous Exposures. It will be the command responsibility of all project leaders and other supervisors to assure themselves that the individuals under their charge who will enter contaminated areas have

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Medical Examinations  
CJTF SEVEN No. 1-53

not had more than 3r of exposure during the preceding 3 months or more than 6r during the preceding six months. Any such cases should be brought to the attention of CJTF SEVEN.

4. Immunizations. All personnel travelling to the forward area must have up-to-date immunizations against the following diseases before leaving the ZI: Smallpox and typhoid - paratyphoid (vaccination or revaccination within three years); tetanus (completion of initial series or stimulating dose every four years). Reference regulations: Army - SR 40-230-1; Navy - BuMed Instr. 6230.1; Air Force - AFR 160-102.
5. Access to Contaminated Areas. The radiological safety control officer may, at his discretion, deny access to contaminated areas to any individual if, in his opinion, there exists a doubt as to the state of the individual's health. This refers to construction and maintenance workers as well as scientific military personnel.

P. W. CLARKSON  
Major General, U.S. Army  
Commander

OFFICIAL:

E. MCGINLEY  
Brigadier General, U.S. Army  
Chief of Staff

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HEADQUARTERS, Joint Task Force SEVEN  
Washington 25, D.C.  
20 June 1953, 1600 R

Annex L to CJTF SEVEN Operation Order No. 1-53

COMMUNICATIONS

1. General Concept of Communications Operations

a. One permanent relay-crypto center at ENIWETOK to be installed, operated and maintained by TG 7.2. Tributary stations serviced by this relay center will include: Hq, JTF SEVEN, TG 7.2, TG 7.3, USS ESTES and other ships as required (i.e., CURTISS, CVE, LSD) and TG 7.4. Headquarters, JTF SEVEN communications center will provide for TG 7.1, TG 7.5 and TG 7.3 (ashore).

b. Crypto center, ENIWETOK, will be crypto guard for all above mentioned tributary stations except TG 7.3 (afloat). For handling of teletype traffic, up to and including SECRET, between major forward and rear echelon task force elements the following radio teletype circuits will be operated "ON-LINE", using SIGTOT with SAMSON (synchronous mixer):

<u>CIRCUIT</u>	<u>TYPE</u>	<u>OPERATIONAL DATE FOR SIGTOT-SAMSON OPERATION (TENTATIVE)</u>
ENIWETOK - OAHU (UHP)	Full Dux (1)	September 1953
ENIWETOK - BIKINI	Full Dux (1)	June 1953
ENIWETOK - KWAJALEIN	Full Dux (2)	October 1953
ENIWETOK - LOS ALAMOS	Full Dux (1)	August 1953
ENIWETOK - AGC (USS ESTES)	Full Dux (1)	January 1954

Traffic not capable of being handled by means of on-line facilities will be enciphered off-line prior to transmission. All TOP SECRET and RESTRICTED DATA traffic will be enciphered off-line. This is necessary to meet AEC requirements and, in addition, terminal communications personnel are not in all instances TOP SECRET or "Q" cleared.

c. Telecon facilities will be available at Headquarters, JTF SEVEN (PARRY ISLAND). Requests for this service will be submitted in accordance with COI item 29-1.

d. Wire telephone facilities cleared for conversations up to and including SECRET will be available at:

- (1) ENIWETOK ISLAND (400 line dial exchange) with connecting service to other islands.
- (2) BIKINI ATOLL (connecting service between necessary islands).
- (3) PARRY ISLAND (220 line manual with connecting service to other islands).

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(4) Ship-shore buoy cable at ENIWETOK, PARRY and BIKINI.

(5) AN/TRC radio, limited to unclassified traffic, will be used as a backup for the foregoing facilities.

e. Voice radio facilities will be available on a closely controlled basis between the following points:

(1) ENIWETOK-BIKINI (HF)

(2) ENIWETOK-KWAJALEIN (TG 7.4 controlled) (HF)

(3) ENYU (Firing Party) - USS ESTES (VHF)

(4) Between Ships (UHF, VHF, AN/TRC and HF)

(5) Ship-Shore (VHF, AN/TRC and HF)

Long-haul and inter-atoll voice radio and radioteletype facilities will be limited to those authorized by CJTF SEVEN.

2. Mission, Headquarters, JTF SEVEN

a. Prepare a communications and electronics plan for Operation CASTLE to include engineering of the overall joint task force communications system.

b. Assign and control all radio frequencies, call signs, address groups and routing indicators.

c. Provide and maintain operational control of the communications security monitoring unit. Prepare periodic reports for CJTF SEVEN concerning status of task force communications security.

d. Monitor communications training of subordinate task groups.

e. Operate communications center and crypto facilities for Headquarters, JTF SEVEN, Washington 25, D.C.

f. Control utilization of teleconferencing facilities.

g. Prepare Headquarters, JTF SEVEN telephone directory.

h. Prepare and distribute COIs (Communications Operations Instructions).

i. Provide for installation and maintenance of terminal VHF ciphony facilities (ENYU-USS ESTES).

j. Provide for procurement and distribution of SIGTOT heads, one-time tape and SAMSON equipment required for on-line SIGTOT-SAMSON operations.

k. Establish a transmission security training program for all intended users of voice radio facilities and a message drafter improvement program to insure most efficient use of limited operational

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Communications

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communications facilities.

3. Communications Missions of Subordinate Task Groups

a. Scientific Task Group (TG 7.1)

(1) Procure, install, operate and maintain special electronic and communications equipment required by the Scientific Task Group, not to include inter-atoll or long-haul radioteletype or voice facilities.

(2) Provide a delivery service to Headquarters, Joint Task Force Communications Center for outgoing teletype traffic and reproduction facilities for received teletype traffic.

(3) Initiate voice-time broadcast for all elements of the task force.

(4) Provide program and facilities, except radio transmitting equipment, for time signal broadcast used in conjunction with far-distant off-site projects.

b. Army Task Group (TG 7.2)

(1) Install, operate and maintain relay center, ENIWETOK, for joint task force. Insure a complete operator knowledge of on-line SIGTOT operations.

(2) Operate and maintain communications centers for Headquarters, JTF SEVEN (PARRY ISLAND), Headquarters, TG 7.2 (ENIWETOK ISLAND) and in support of AEC operations at BIKINI (ENINMAN).

(3) Provide crypto guard facilities for Headquarters, JTF SEVEN, TG 7.1, 7.2, 7.4, 7.5 and for Headquarters, TG 7.3 when ashore.

(4) Install, operate and maintain all land-based communications facilities required at ENIWETOK ATOLL except:

(a) Task Group 7.4 internal communications

(b) Telephone plant on islands other than ENIWETOK

(c) Inter-island and buoy cable systems

(d) Special facilities required by TG 7.1 and TG 7.5.

(5) Install, operate and maintain backup facilities for:

(a) The ENIWETOK-PARRY submarine cable circuits.

(b) The ENINMAN-ENYU submarine cable keying circuits.

(c) Buoy cable circuits at ENIWETOK and BIKINI.

(d) On-line SIGTOT-SAMSON facilities at relay center, ENIWETOK, and communications center, BIKINI, using standard teletype equipment.

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(6) Install, operate and maintain BIKINI terminal facilities, to include AN/TRC equipment for use on ENYU-ESTES ciphony link and HF transmitting and receiving equipment (ENYU) for use on ENIWETOK-BIKINI RATT duplex circuit.

(7) Install, operate and maintain theater facilities at ENIWETOK ISLAND; install and maintain motion picture projection facilities at PARRY ISLAND and BIKINI ATOLL.

(8) Operate a crystal grinding facility for emergency production of crystals for all elements of the task force.

(9) Furnish emergency power for communications facilities provided by TG 7.2, to include the joint transmitter building.

(10) Operate a battery charging plant for the maintenance of storage batteries.

(11) Provide maintenance for Special Service radio broadcast station WXLE and Special Service radio receivers.

(12) Provide personnel and equipment to operate and maintain Headquarters, JTF SEVEN teleconferencing facilities on PARRY ISLAND.

(13) Provide such other electronic facilities, the operation and maintenance of which are normally considered a responsibility of the Signal Corps, which are within the capabilities of personnel and equipment available.

(14) Install, operate and maintain facilities control of circuits terminating in Relay Center, ENIWETOK.

(15) Provide a send and receive TT circuit from Headquarters, JTF SEVEN Communications Center (PARRY ISLAND) to central receiving point in Building 208-209, PARRY ISLAND, for delivery of teletype traffic for TG 7.1 and TG 7.5.

(16) Where, in the foregoing paragraphs, installations is a responsibility assigned to CTG 7.2, it will be accomplished in conformity with specifications issued by CJTF SEVEN.

c. Naval Task Group (TG 7.3)

(1) Provide internal task group communications to include relay facilities from USS ESTES and/or CVE to task group ships at sea.

(2) Provide space aboard USS ESTES for housing and operations of 1 officer and 10 enlisted men of the communications security monitoring detachment.

(3) Provide communications for transmission of traffic of an administrative nature only between CTG 7.3 and the Navy Department and with naval operating forces not directly concerned with CASTLE.

(4) Operate and maintain shipboard command and control communications facilities for CJTF SEVEN and staff afloat. Insure complete

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operator knowledge of on-line SIGTOT operation on ship(s) utilizing SIGTOT-SAMSON equipment.

(5) Provide radio teletype facilities to major relay stations at OAHU (UHP) and KWAJALEIN (JHK) in case of emergency evacuation of ENIWETOK ATOLL.

(6) Provide and operate electronic facilities to control against possible undesirable surface and underwater activity within the ENIWETOK area.

(7) Provide communications facilities required by the joint task force Weather Central aboard the AGC.

(8) Provide standard teletype backup for ships using on-line SIGTOT-SAMSON facilities.

(9) Render assistance as may be required for operation of the Communications Center, PARRY ISLAND, during peak operational periods.

(10) Provide communications and electronics facilities required for air control purposes in the CIC aboard the AGC.

d. Air Force Task Group (TG 7.4)

(1) Install, operate and maintain internal task group communications to include weather, aircraft movement, air-ground, air-air navigational communications and communications center (less code room) serving as a tributary of Relay Center, ENIWETOK. Telephone service on ENIWETOK will be provided by TG 7.2. Telephone service on KWAJALEIN will be provided by CO NAVSTA KWAJALEIN.

(2) Provide two channels of ENIWETOK-KWAJALEIN MUX circuit to Headquarters, JTF SEVEN for termination in Relay Center, ENIWETOK.

(3) Procure necessary communications and electronics equipment and supplies to meet requirements of TG 7.4.

(4) Install, operate and maintain communications facilities for AOC on ENIWETOK ISLAND and provide communications personnel as required for AOC aboard the command ship.

(5) Provide communications personnel as required for operation of task force Weather Central aboard the command ship.

e. AEC Base Facilities Task Group (TG 7.5)

(1) Install, operate and maintain telephone system, except on ENIWETOK ISLAND.

(2) Provide and maintain wire circuits in the inter-island and buoy cable systems to meet timing telemetering and communications requirements of the scientific programs and to meet operational and administrative communications requirements of Headquarters, Joint Task Force SEVEN.

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- (3) Operate and maintain the LOS ALAMOS terminal of the ENIWETOK-LOS ALAMOS RATT circuit.
- (4) Provide alternate ZI relay facilities from Communications Center, LOS ALAMOS, for forward area task force traffic during operational periods.
- (5) Install, operate and maintain, with the assistance of TG 7.2, DOD type tactical radio equipment required for use by TG 7.1.
- (6) Install, operate and maintain TG 7.5 boat pool communications facilities.
- (7) Operate motion picture facilities at BIKINI and ENIWETOK ATOLLS (not to include those on ENIWETOK ISLAND).
- (8) Prepare and distribute a consolidated atoll telephone directory.
- (9) Provide a central receiving point for traffic (except TOP SECRET and RESTRICTED DATA) for TG 7.1 and TG 7.5 from the JTF SEVEN Communications Center.

f. All Task Groups

- (1) Prepare a task group communications and electronics plan and submit to Headquarters, JTF SEVEN by 1 August 1953.
- (2) Submit requirements for frequencies, call signs, routing indicators and address groups to Headquarters, JTF SEVEN prior to 1 September 1953.
- (3) Prepare task group telephone directory in quantity to be designated by consolidating and issuing agency (TG 7.5).
- (4) In accordance with joint task force training directives, establish a transmission security training program for all intended users of voice radio facilities and a message drafter improvement program to insure most efficient use of limited operational communications facilities.

4. General

- a. The Army Task Group signal detachment will be brought up to its authorized operational phase strength and be prepared to perform its missions by 1 December 1953.
- b. Construction, rehabilitation and installation and service checking of military communications facilities in support of Operation CASTLE will be completed by 1 December 1953.
- c. Signal Officer, TG 7.2 will operate a crystal grinding facility to provide emergency production of crystals for all elements of the task force. Task group communications officers will make every effort to procure all required crystals through their established supply channels prior to commencement of the operational phase.

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Communications  
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d. Communications operation instructions published by Headquarters, JTF 132 will be revised as necessary by Headquarters, JTF SEVEN, to include a list of approved radio and wire circuits, radio call signs and frequencies, and uniform task force communications operating procedure.

P. W. CLARKSON  
Major General, U.S. Army  
Commander

OFFICIAL:

*Francis C. Bowen*

FRANCIS C. BOWEN  
Colonel, U.S. Army  
Acting Assistant Chief of Staff, J-5

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## CHANGES TO OPERATION ORDER NO. 1-53

Enter number and date of corrections as indicated

Change No.	Dated	Effective	Date Made	Signature

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 REVIEWED BY Diaz DATE 11/3/07  
 \* Per DNA LTR 3/31/86  
Callahan 3/24/89

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