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EXERCISE DESERT ROCK V. MARINE CORPS REPORT.(U)
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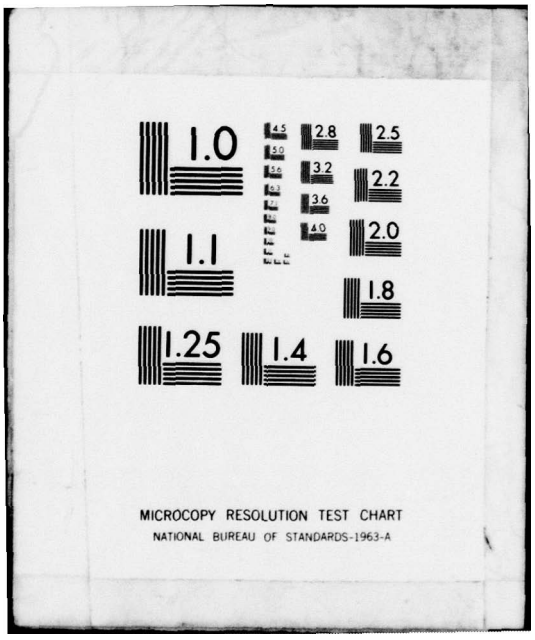
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DESERT ROCK

Statement A
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ENCLOSURE 3

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Headquarters
2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Pendleton California

19 May 1953

[redacted]
Security Information

From: Commanding General
To: Commandant of the Marine Corps
Via: (1) Commanding General, Fleet Marine Force, Pacific Troops
(2) Commanding General, Fleet Marine Force, Pacific

Subj: Exercise Desert Rock V - Marine Corps, report on

Ref: (a) CG, FMFPacTrps sec ltr ser 0011 of 27 Feb 1953

Encl: (1) Copy of reference (a)
(2) Copy of CG 2d MCPAEB ltr ser 2-53 dated 9 March 1953
(3) 2d MCPAEB Administrative Plan 1-53
(4) 2d MCPAEB Training Schedules
(5) 2d MCPAEB Movement Plan 1-53
(6) 2d MCPAEB Operation Plan 1-53
(7) 2d MCPAEB Movement Plan 2-53
(8) General Situation & Tactical Plan
(9) Report of Selected Officer Volunteer Program
(10) Summary of Marine Corps Observer Comments

Annexes: ABLE - Photographic Supplement

1. INTRODUCTION:

a. The 2d Marine Corps Provisional Atomic Exercise Brigade (2d MCPAEB), was activated by reference (a) for the purpose of conducting the Marine Corps phase of Exercise Desert Rock V. This exercise was conducted in conjunction with an atomic test at the Nevada Proving Grounds of the Atomic Energy Commission Test Command, on 18 April 1953. A report of this exercise is submitted herewith in accordance with paragraph 5.g. of reference (a).

b. Transmission of this report by United States registered mail or registered guard mail is authorized in accordance with Article 1513.2, United States Navy Regulations 1948. Annexes and enclosures are classified as indicated thereon upon removal from this report.

c. This report is published in an original and forty-nine (49) copies. Distribution has been made by this headquarters as follows:

(1) Via Channels: Original and copies 1-3

(2) File 2d MCPAEB, in Hq, FMFPacTrps — copy 4

(3) Direct to CMC — copies 5-49

2. MISSION:

In order to provide significance and easy reference to the following report, the mission directive in reference (a) is

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repeated hereafter:

a. To familiarize personnel with the effects of atomic weapons.

b. To test and further develop tactics and techniques for placing helicopter borne forces on objectives in close proximity to ground zero.

c. To afford commanders and staffs realistic training in planning and conducting operations that are supported by atomic weapons.

d. To provide actual training in radiological survey operations.

e. To familiarize personnel with the individual and collective means that may provide protection against the atomic weapon.

3. ORGANIZATION:

a. The 2d Marine Corps Provisional Atomic Exercise Brigade (2d MCPAEB) was activated on 2 March 1953, at Camp Pendleton, California. Brigade headquarters consisted of a total of thirty-four (34) officers and one hundred and eighteen (118) enlisted, which included all Marine Corps PIO personnel, liaison officers from Fleet Marine Force, Atlantic, and the special and technical advisors from Headquarters, Marine Corps.

b. The 2d Battalion (-) (Reinforced), 3d Marines, 3d Marine Division, FMF, and 1st Battalion (-) (Reinforced), 8th Marines, 2d Marine Division, FMF, were organized in accordance with enclosure (4) of reference (a) and reported for operational control on 25 March 1953, and 1 April 1953, respectively. The 2d Battalion, 3d Marines, closed Camp Desert Rock on 12 April 1953, with a total of forty-four (44) officers and eight hundred and sixty-three (863) enlisted. The 1st Battalion, 8th Marines, closed on 13 April 1953, with forty-six (46) officers and eight hundred and sixteen (816) enlisted.

c. Marine Helicopter Transport Group 16 (MAG (HR) 16) reported for operational control on 25 March 1953, and closed Camp Desert Rock, on 14 April 1953, with a total complement of seventy-nine (79) officers and one hundred and forty-one (141) enlisted. Thirty-nine (39) HRS type helicopters were flown to Camp Desert Rock, from MCAF, Santa Ana, California, and were operational for the exercise.

d. Total personnel comprising the brigade consisted of two hundred and eleven (211) officers and one thousand, nine hundred and fifty-six (1956) enlisted. The T/O for the brigade headquarters was quite adequate and considering the limited tactical maneuver involved, the battalions' provisional T/O was sufficient to adequately accomplish their assigned mission. MAG (HR) 16 experienced no difficulties performing its phase of the assigned mission.

e. On 5 March 1953, this headquarters was directed by the Commanding General, Fleet Marine Force, Pacific, to activate a helicopter atomic test unit, for the purpose of verifying the

results of a study distributed by CMC ltr 03D2353 of 30 January 1953. Major Carl W. LINDELL, 021746/7335, USMC, then liaison officer from 2d MCPAEB to the Exercise Director, Camp Desert Rock, was assigned additional duties as officer in charge of this unit, with responsibility for the conduct, and control of the tests. The results of these tests will be the subject of a separate report, to be submitted after the present series of tests are completed, and before this headquarters is deactivated.

f. Complete T/O and suggested staff action for the organization of a similar type exercise brigade will not be included in this report. A separate report covering administrative problems encountered, all relatively minor, will be submitted, including a recommended T/E for the T/O used this year. Furthermore, all files of this Brigade together with complete staff journals and staff recommendations will be available and on file in Headquarters, Fleet Marine Force Pacific Troops, Camp Pendleton, California.

4. PLANNING:

a. Preliminary planning was initiated immediately upon activation and on 4 March 1953, the commanding general and key staff officers visited Camp Desert Rock, for a briefing and joint planning conference with the Exercise Director, Brigadier General William C. BULLOCK, USA, and his staff. The cooperation received was excellent and continued throughout the concurrent and parallel planning phases, as well as during the conduct of the exercise.

b. On 9 March 1953, a letter of instruction, enclosure (2), was distributed to participating units of 2d MCPAEB, to enable those units to initiate their planning for the exercise. Direct liaison was authorized by the Commanding Generals, Fleet Marine Force, Pacific, and Atlantic, between this headquarters and all participating units, which greatly facilitated and expedited the coordination of the planning phase.

c. On 23 March 1953, two (2) liaison officers reported to this headquarters from 1st Battalion, 8th Marines. These officers were given additional duties as members of the 2d MCPAEB staff; one being employed as assistant G-3 and the other as Headquarters Commandant.

d. On 26 March 1953, an information brochure was published and distributed on the basis of one (1) copy per man to all participating units, to further familiarize all hands with the forthcoming exercise.

5. OPERATIONS AND TRAINING PRIOR TO D-DAY:

a. Administrative Plan 1-53 (Enclosure 3) was distributed 25 March 1953, and Movement Plan 1-53 (Enclosure 5) was distributed on 6 April. A general situation was constructed and a tactical plan (Enclosure 8) was formulated and promulgated on 12 April 1953. The scope of the situation and plan was severely limited due to the restrictions imposed by the AEC in the maneuver area to be used and the character of the terrain. Operation Plan 1-53 (Enclosure 6) was distributed on 14 April.

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b. Training for 2d MCPAEB prior to encampment at Camp Desert Rock, was conducted in accordance with reference (a). Training requirements were issued to the battalions and MAG-16 through the medium of enclosure (2); each unit conducted training at its home base. Enclosure (4) provides an example of the type of schedule adhered to prior to 2d MCPAEB's arrival at Camp Desert Rock.

c. On 30 March 1953, a rehearsal for the helicopter phase of the operation was conducted in the San Mateo Canyon Maneuver Area at Camp Pendleton, in which MAG (HR) 16, 2d Battalion, 3d Marines and an Air-Tactical-Logistical-Team, organized from Headquarters, 2d MCPAEB, participated. Because of the heavy training commitments of MAG (HR) 16, only twelve (12) helicopters were made available for the rehearsal, in lieu of the forty-five (45) scheduled for the actual operation. The rehearsal was successful and afforded excellent training for the Air-Tac-Log-Team as well as serving the 2d Battalion, 3d Marines, with an FEX where control problems peculiar to the actual exercise could be worked out.

d. The Air-Tac-Log-Team was organized as a result of verbal recommendations by MAG (HR) 16. Experience gained in previous exercises such as EGGBEATER and AIRLEX II provided further justification for such a team. The team consisted of one (1) officer, six (6) non-commissioned officers (based on one (1) NCO per helicopter, operating in waves of six (6)), two (2) radio operators and one (1) jeep driver. Equipment consisted of one (1) AN/MRC-19 radio jeep, one (1) AN/PRC-10 and eighteen (18) panels, marker, VS-R/U. The Tac-Log-Team directed pilots to the landing areas and loaded and dispatched the helicopter waves.

e. The training required by enclosure (1) and additional training believed necessary, was accomplished by the entire brigade prior to arrival at Camp Desert Rock. Therefore, time spent at Camp Desert Rock, other than "rehearsal" day and "shot" day, was devoted to organizing the camp, familiarization with the equipment demonstration and its objective, security lectures required by the exercise director, radiac instrument calibration and routine preparation for the exercise. Additional periods were scheduled to enable PIO personnel to accomplish their assigned mission. (See enclosure (4) for the schedule of this activity.)

f. An additional training requirement was imposed when Headquarters, Camp Desert Rock, announced that it would be unable to furnish the total number of drivers for convoy vehicles on D-day as planned. 2d MCPAEB was requested to furnish approximately ninety (90) drivers. Since the requisite number of trained drivers was not available, personnel with any driving experience at all were selected and trained by the 2d MCPAEB Motor Transport Officer to drive the army hydromatic equipped trucks; this was accomplished in less than forty-eight (48) hours. The effectiveness of this training may be measured by the no-accident record achieved for the operation.

g. A complete rehearsal of the operation plan was conducted on 16 April. The plan was determined to be sound and no changes were made, except in connection with the helicopter lift. It

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was determined that due to the altitude and atmospheric conditions, the helicopters could lift a plane team of only three (3) rather than five (5) as originally planned. This required an "on the spot" revision of plans by the Tac-Log-Team leader, which was accomplished expeditiously and the rehearsal was carried to a successful conclusion without further delay. During the rehearsal, all radiation monitors carried their radiac instruments and received excellent training in actual survey, because of the 10 to 90 mr/hr radiation present in the maneuver area from a previous shot.

h. On D-1 final preparations were made, troops provided with a rest period, film badges issued on the basis of two (2) badges per platoon and dosimeters issued on the basis of two (2) per company.

6. CONDUCT OF THE EXERCISE:

a. At 1700 on D-1 MAG (HR) 16 flew thirty-nine (39) HRS Helicopters from Camp Desert Rock, to the staging area at Yucca Air Strip, some 22,000 yards from ground zero. Pilots and crews remained overnight at the Yucca Air Strip and prepared for the take-off to pick up "E" Company, 2d Battalion, 3d Marines, as soon after H-hour as possible and transport them to the assigned objective. Original plans had called for "E" Company to be lifted from the staging area and to be airborne at the time of the detonation. However, the restricted visibility of the pre-dawn hour set for the detonation introduced too great an operational hazard for the large number of helicopters which would have to be in the air at that time. Therefore the decision was made to lift "E" Company from the entrenchment area, thereby permitting the helicopters to take flight from the staging area immediately after the shot and lift the troops during increased visibility. As a result, the troops were accorded the opportunity of indoctrination in the trenches, although this course of action had the disadvantage of introducing an additional factor of unrealism. This factor was accepted deliberately, though it was unfavorably commented on by several observers.

b. At 2317, D-1, all troops and the ground echelon of MAG (HR) 16 departed Camp Desert Rock, by motor convoy, arriving at the exercise area at approximately 0135, 18 April. This early arrival was a requirement of the Atomic Energy Commission Test Command and the Exercise Director, which provided ample time for mustering and final instructions by unit commanders prior to H-hour. This time was also utilized to further familiarize all hands with the actual atomic test, insofar as instrumentation, thermal and other effects, and aircraft participation was concerned. This was presented by officers of the Camp Desert Rock Staff over a public address system piped to all trenches and proved to be very instructive and interesting.

c. All 2d MCPAEB communications were checked in the exercise area and at H-30 minutes complete radio silence went into effect. At H-10 minutes all troops were instructed to enter their assigned trenches and at H-2 minutes all hands assumed a kneeling position braced against the side of the trench toward ground zero. At exactly H-hour, 0435U, the atomic device was detonated. Immediately after the shock wave passed over the trenches, the troops moved out in attack formations.

Even though the dust was thick, the fire-ball and atomic cloud were visible and the troops witnessed this phenomenon as they moved toward ground zero. An experienced 2d MCPAEB Radiological Safety Officer, preceeded troops via jeep to insure accurate and reliable radiation readings while troops moved closer to contaminated areas.

d. Due to a north-westerly wind of approximately 10 to 15 knots, blowing across the right flank of the entrenchments and from the direction of ground zero, the 1st Battalion, 8th Marines, was exposed to an unprecedented and unanticipated radiation fall-out immediately after H-hour and reported dosages up to 7.5 roentgens as early as H/36 minutes. Since this exceeded the AEC's total allowable dosage for this exercise, the 1st Battalion was evacuated immediately, in accordance with plans. It was later determined that dosimeters carried by members of the right flank company indicated 7.5 roentgens and that the average total dosage of the 1st Battalion was 4.8 roentgens. The 2d Battalion, 3d Marines, and Headquarters, 2d MCPAEB, advanced in their zone of action as planned, completing the entire phase of their participation, including the administrative move through the demonstration area. The 2d Battalion received an average total dosage of 2.3 roentgens. Headquarters, 2d MCPAEB received approximately 2 roentgens.

e. At H/11 minutes two (2) pathfinder helicopters arrived at the embarkation area behind the entrenchments and embarked radiation monitor teams. These teams were lifted to the objective and disembarked by approximately H/15 minutes. Due to communication difficulties between Headquarters, 2d MCPAEB and pathfinder monitor teams, there was some delay in dispatching the first wave of helicopter borne troops to the objective. This, too, was adversely commented upon by some observers. However, the air lift was completed and "E" Company was on its objective by H/50 minutes. This time would have been cut down considerably had it not been for rigid safety precautions and limited communications frequencies, which restricted control. Upon completion of the lift, the helicopters were parked and shut-down in the embarkation area. From here the pilots and crews were transported through the display area via bus convoy. MAG (HR) 16 personnel received a total dosage of approximately 1 roentgen.

f. The previously mentioned wind condition at H-hour created a visibility and radiation hazard for the helicopter pilots as the atomic cloud was blown across their designated route of approach. It was necessary for the pilots to select alternate routes around the cloud and dust area.

g. All personnel were decontaminated, prior to entrucking for the move to Camp Desert Rock, by a thorough brushing and sweeping down of each individual. Considerable contamination was detected on the return route of the convoy which required alternate routes to be selected and used. This contamination was caused by "fall-out" as the cloud passed over the convoy route. Another decontamination area was then designated where all hands were monitored. No decontamination was required in

this final monitoring station. All personnel were required to shower upon return to Camp Desert Rock.

7. COMMENTS AND RECOMMENDATIONS:

The following comments and recommendations are made with the full realization that they may already be outdated in view of the progress made in atomic warfare discoveries and plans. They are made solely in the light of the experience and training of this Brigade.

a. COMMENT:

The AN/PDR 27C and AN/PDR T1B radiac instrument allowance was adequate for the exercise, however under combat conditions, and particularly defensive combat, there should be a supply of replacement equipment. Its loss or destruction could be damaging to morale and combat effectiveness.

RECOMMENDATION:

That consideration be given to a replacement supply figure for the radiac intensity equipment which visualizes combat exigencies.

b. COMMENT:

High rate dosimeters as part of the allowance for training or combat is highly desirable. A dosimeter renders a quick and immediately comprehensive reading. Its value lies in its use by untrained monitors and small unit leaders for the rapid determination of casualties and highly contaminated areas, which may be ascertained by a deductive reading. The early and rapid accumulation of 7.5 roentgens by previously mentioned elements of the brigade pointed out the desirability of high rate dosimeters. This early report was based on dosimeter readings, immediately verified by intensity instruments, taken from 10 and 100 roentgen capacity dosimeters loaned to the brigade by the Camp Desert Rock Command. The decision to evacuate the troops was made on a dosimeter reading.

RECOMMENDATION:

That high rate (100 roentgen) dosimeters be furnished, on the basis of two (2) per company, for all training exercises involving atomic weapons.

c. COMMENT:

The exercise demonstrated a need for a mobile radiological reconnaissance or detection system which could range beyond advancing troops and screen the front. It could thereby quickly assess an area and reconnoiter for an avenue around a contaminated area, permitting timely changes in formation, direction and avenues of approach. By the time troop monitors make a radiac discovery, it may be too late to prevent contamination casualties (See Conduct of Exercise).

RECOMMENDATION:

That consideration be given to the formulation of a doctrine which provides for mobile radiological reconnaissance teams as an organic part of a battalion. Consideration would of course, have to be given as to how this might affect the T/O and T/E.

d. COMMENT:

The employment of helicopters in the exercise did not reveal or develop any new techniques in the embarkation or landing of helicopter borne troops in relation to atomic warfare. However, it is believed that a new technique for embarking or landing helicopter borne troops was used which is applicable to any type of operation. Instead of guiding helicopters into the landing zone or embarkation area by use of ground panels, the personnel on the ground directing the landings wore "panel vests." The panel vest has the advantages of being secure (won't blow away), easily seen from the air, and easily seen by the plane teams being directed in the embarkation and landing. The vest requires no prefabrication and takes less time to construct than to secure a panel to the ground. It can be made of three regulation panels snapped together to provide a front, arm holes and back.

RECOMMENDATION:

That this vest be publicized so that other operations may benefit by its advantages.

e. COMMENT:

Valuable indoctrination for VMO personnel and training in the use of such reconnaissance elements by commanders and staffs could be achieved by having VMO aircraft aloft at time of shot. It would also serve to keep the brigade commander informed as to developments during an exercise.

RECOMMENDATION:

That representation be made to the AEC to provide clearance for the attachment of at least two (2) observation aircraft to the provisional unit for future exercises of this nature.

f. COMMENT:

The employment of helicopters in the exercise revealed the tactical necessity for the selection of alternate routes of approach and objectives when placing helicopter borne forces on objectives in close proximity to ground zero. An uncalculated change in the direction of the atomic cloud can render a route of approach or an objective excessively radioactive and restrict visibility to the extent that operations can be seriously impaired (See Conduct of Exercise).

RECOMMENDATION:

That all plans for the placing of helicopter borne forces on an objective include alternate routes and objectives, visualizing possible changes in weather factors.

g. COMMENT:

The radiation tolerance of 6 roentgens allowed in this exercise may be adequate to accomplish a similar mission in a similar exercise. However, it is a narrow tolerance and, in this instance, precluded one battalion from viewing the equipment display (See Conduct of Exercise). The battalion had received an almost immediate radiation reading of 3.5 roentgens after it had proceeded less than 500 yards, at which time, if a greater tolerance had been permitted, the battalion could have been committed to an alternate zone of action and been able to view the display.

RECOMMENDATION:

That representation be made to the AEC for a greater radiation tolerance for future exercises of this nature. At least twelve (12) roentgens is estimated to be a safe and reasonable tolerance, and it is believed experience will show that that limit can be safely exceeded.

h. COMMENT:

An important role for a reconnaissance company could be the assessment of the effects of an atomic bomb or weapon. It is ideally suited in training, equipment (except for radiac instruments), organization and mission for this work.

RECOMMENDATION:

That reconnaissance company personnel receive thorough training in radiological survey work, and that reconnaissance companies participate in future similar exercises.

i. COMMENT:

Weather and wind conditions are highly significant in the use of an atomic weapon in support of troops - significant to the extent that they are determining factors as to time of delivery and location of target. Wind direction as a determinant, for shot day pointed this out.

RECOMMENDATION:

That a study be made as to the practicability of providing for a meteorlogical section in Force Troops against the time when atomic warfare becomes an actuality. This section would provide data as the basis of planning on a corps level. It is further recommended that the meteorological section of an artillery regiment be considered for augmentation toward the expansion of its capabilities to produce data as the basis for planning at a division level. This section is considered to be logically located within the organization of a division inasmuch as the

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regimental commander is the coordinator for supporting arms.

j. COMMENT:

It is believed that in the use of atomic weapons, uncalculated changes in wind direction and weather conditions can, depending upon yield and type burst, render a zone of action and/or and objective highly contaminated, because of excessive radiation fall-out.

RECOMMENDATION:

That plans for training exercises and combat always consider this possibility and incorporate alternate zones of action and objectives if in consonance with sound tactical considerations.

k. COMMENT:

The equipment display (Annex Able) was organized for the purpose of demonstrating the effects of an atomic blast on the equipment. The effects of the blast on normal Marine Corps field equipment could have been more effectively demonstrated by adding certain equipment and by having the engines of vehicular equipment operating at the time of detonation. This was not possible for this exercise because of the AEC requirement that all engines be shut down and that radio silence be observed from H-30 minutes until H-hour.

RECOMMENDATION:

That representation be made to the AEC to allow for vehicle engines to be running and communications equipment to be operative and turned on at the time of the detonation in future exercises. It is further recommended that additional field equipment be displayed (e.g., water trailers, field ranges) and that ammunition be included. Many questions arose as to the effect on these items. (See enclosure 10).

l. COMMENT:

There is a need for a manual, of the regulation FM series, setting forth tactical and training doctrine on atomic warfare. Landing Force Bulletin #2, Enclosure (1), gives valuable and instructive information, but still treats this subject superficially and is quite repetitious of doctrines and techniques long ago accepted and practiced. Of course, it is realized that the subject bulletin is an interim publication. Other publications dealing with the very technical, specialized, or general aspects of atomic warfare do not possess the requisites of a codified guide for a field commander.

RECOMMENDATION:

That every effort be made to obtain such a manual.

m. COMMENT: UNCLASSIFIED

4000 yards is the optimum distance from ground zero for exercises with a like mission using an atomic weapon or device with a similar yield and type burst because:

(1) Less distance between troops and ground zero subjects troops to more dust and a consequent reduction in ability to observe bomb phenomenon, an important phase of the indoctrination.

(2) A high density fall-out or other emergency conditions would increase the difficulties involved in troop evacuation.

(3) It permits troops to participate in tactical maneuvers while radioactivity in the vicinity of ground zero decreases. Troops under actual combat conditions could, of course, be located closer than 4000 yards to ground zero without reducing their combat efficiency. (See Enclosure (9))

RECOMMENDATION:

That in exercises with relatively the same mission, troops be placed no closer than 4000 yards, provided the nuclear bomb or device is to be of equal or similar yield.

n. COMMENT:

The indoctrination for tank and for LVT personnel would be enhanced by the use of tanks or armored LVTs in the exercise. They would also lend realism to the tactical maneuver.

RECOMMENDATION:

That a platoon of tanks or armored LVTs be used in similar future exercises.

o. COMMENT:

It has been recommended in enclosure (10) that an expert on atomic warfare be incorporated within the division and higher level staffs.

RECOMMENDATION:

That a study be made to determine the necessity for such a specialist and the staff level of assignment.

p. COMMENT:

Questions by observers and participants alike arose as to the efficiency of a provisional organization such as 2d MCPAEB in the exercise. The inherent restrictions as to locale and number of personnel which can be accomodated in the AEC test site in Nevada seem to indicate that the brigade used in 1952 and 1953 best serve the purpose.

RECOMMENDATION:

That the provisional organization representing the FMF Atlantic and Pacific, composed of selected professional marines from each, be continued for similar exercises at Desert Rock.

[redacted]

8. CONCLUSION:

Although the security and operational restrictions imposed by the AEC Test Command limited the scope of staff planning and the conduct of the exercise and introduced considerably more than the usual artificialities inherent in training exercises, it can be concluded that the exercise was a valuable training and indoctrination opportunity for the Marine Corps. Every advantage should be taken of similar opportunities, where practicable. The exercise served to stimulate valuable thought in the tactical field of atomic warfare; to familiarize personnel with the effects of atomic weapons and with the individual and collective means provided for protection; to provide actual and much needed training in radiological monitoring and survey operations; and to introduce to commanders and staffs, some of the problems connected with the planning and conducting of operations involving atomic weapons.

W. S. BROWN

[redacted]

Headquarters
Fleet Marine Force Pacific Troops
Camp Pendleton
California

23/271/mjl
A4-2
Ser 0011
27 Feb 1953

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Security Information

From: Commanding General
To: Brigadier General Wilburt S. BROWN, 02960/9903 USMC

Subj: Activation of 2d Marine Corps Provisional Atomic Exercise Brigade (MCPAEB)

Ref: (a) CMC sec ltr ser 003035152 of 12 Jan 1953
(b) CG FMFPac sec msg 200202Z/Jan 1953
(c) CG FMFPac Trps sec msg 221850Z/Jan 1953
(d) CG FMFPac sec msg 312130Z/Jan 1953

Encl: (1) Concept of Marine Corps Exercise
(2) List of Material
(3) Supply and accounting instructions relative to demonstration materiel
(4) Troop list for infantry Bn (-) (Reinf)

1. The 2d Marine Corps Provisional Atomic Exercise Brigade (MCPAEB) is activated effective 2 March 1953. You are assigned additional duty as Commanding General thereof effective upon activation.

2. A cadre of 12 officers and 12 enlisted men will be assigned to Brigade Headquarters on 2 March. Additional personnel, totalling approximately 76 officers and enlisted, will be assigned on or before 20 March 1953, as requested by you.

3. In addition to the headquarters the Brigade will be composed of two (2) Infantry Battalions (-) (Reinforced, one (1) from Fleet Marine Force Pacific and one (1) from Fleet Marine Force Atlantic, each with a maximum strength of nine hundred fifty (950) officers and enlisted Marines. The troop list (enclosure 4) will be used as a guide for organizing the Infantry Battalions. Actual composition of Battalions will be as specified by you.

4. This Brigade is activated for the purpose of conducting the Marine Corps phase of troop participation in the series of Atomic tests to be conducted at the Nevada Proving Grounds by Atomic Energy Commission during the period 1 March 1953 to 31 May 1953. The troop participation phase has been assigned the unclassified Code Name of DESERT ROCK V; the series of tests bears the RESTRICTED Code name Operation UPSHOT-KNOT-HOLE. Tentative D-day has been set as 11 April 1953.

5. In connection with the above exercise, as Commanding General 2d MCPAEB, you are charged with the following specific responsibilities:

a. Prepare plans and scheme of Maneuver for Marine Corps exercise that will achieve objectives set forth in enclosure (1).

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(1) One hundred (100) cases of C rations. To be provided by Commanding General, Force Troops, Fleet Marine Force, Pacific from operating level.

(2) Twelve (12) drums of motor gasoline (55 gallon frums), to be requisitioned from Army sources at Camp Desert Rock.

e. All hands will be equipped with gas masks.

f. The following minimum radiological defense personnel and equipment will be provided by each Infantry Battalion (-) (Reinforced) from personnel and equipment available to appropriate Fleet Marine Force commanders:

(1) Two (2) monitors per platoon.

(2) One (1) AN/PDR T-1 or T-1B per platoon.

(3) One (1) AN/PDR 27C per platoon.

g. Commercial transportation will not be utilized to transport equipment other than the demonstration materiel listed in enclosure (2).

9 Commanding General, Aircraft, Fleet Marine Force, Pacific has been directed to provide you with three (3) Marine Helicopter transport squadrons to report in sufficient time to permit at least one (1) rehearsal with the helicopter borne company(s) of the Infantry Battalion (-) (Reinforced) prior to departure for Camp Desert Rock. Direct liaison is authorized.

10. Commanding General, Department of Pacific has been requested to provide you with logistic support in accordance with your requirements. Direct liaison is authorized.

11. Necessary funds, and orders will be provided for by this headquarters.

12. Commandant, Marine Corps has made available the following officers to you as special advisors:

For period 20 March - 15 April

LtCol G. W. DAUGHTRY, 08128

Major T. E. SPIEKER, 023698

For period 3 April to 15 April.

LtCol H. C. BOEHM 06553

LtCol G. E. MOORE 07881

13. You are requested to keep this headquarters informed of the progress of the exercise.

[redacted]

Headquarters
Fleet Marine Force Pacific Troops
Camp Pendleton
California

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23/271/mjl
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From: Commanding General
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Subj: Activation of 2d Marine Corps Provisional Atomic Exercise Brigade (MCPAEB)

Ref: (a) CMC sec ltr ser 003035152 of 12 Jan 1953
(b) CG FMFPac sec msg 200202Z/Jan 1953
(c) CG FMFPac Trps sec msg 221850Z/Jan 1953
(d) CG FMFPac sec msg 312130Z/Jan 1953

Encl: (1) Concept of Marine Corps Exercise
(2) List of Material
(3) Supply and accounting instructions relative to demonstration materiel
(4) Troop list for infantry Bn (-) (Reinf)

1. The 2d Marine Corps Provisional Atomic Exercise Brigade (MCPAEB) is activated effective 2 March 1953. You are assigned additional duty as Commanding General thereof effective upon activation.

2. A cadre of 12 officers and 12 enlisted men will be assigned to Brigade Headquarters on 2 March. Additional personnel, totalling approximately 76 officers and enlisted, will be assigned on or before 20 March 1953, as requested by you.

3. In addition to the headquarters the Brigade will be composed of two (2) Infantry Battalions (-) (Reinforced, one (1) from Fleet Marine Force Pacific and one (1) from Fleet Marine Force Atlantic, each with a maximum strength of nine hundred fifty (950) officers and enlisted Marines. The troop list (enclosure 4) will be used as a guide for organizing the Infantry Battalions. Actual composition of Battalions will be as specified by you.

4. This Brigade is activated for the purpose of conducting the Marine Corps phase of troop participation in the series of Atomic tests to be conducted at the Nevada Proving Grounds by Atomic Energy Commission during the period 1 March 1953 to 31 May 1953. The troop participation phase has been assigned the unclassified Code Name of DESERT ROCK V; the series of tests bears the RESTRICTED Code name Operation UPSHOT-KNOT-HOLE. Tentative D-day has been set as 11 April 1953.

5. In connection with the above exercise, as Commanding General 2d MCPAEB, you are charged with the following specific responsibilities:

a. Prepare plans and scheme of Maneuver for Marine Corps exercise that will achieve objectives set forth in enclosure (1).

[redacted]

b. Insure that all participants have received the minimum of special training set forth in change 2 to Marine Corps General Order 83.

c. Insure that all troops are United States citizens and that officers have SECRET and enlisted at least CONFIDENTIAL security clearances.

d. Coordinate plans for the Marine Corps exercise with Exercise Director, Camp Desert Rock, who will be appointed by Chief of Staff, United States Army.

e. Conduct the Marine Corps exercise.

f. Coordinate movement of troops from home stations to Camp Desert Rock, Nevada and return. Request air transportation from Commanding General, Aircraft Fleet Marine Force, Pacific for the west coast BLT and Brigade Headquarters; Commanding General, Fleet Marine Force, Atlantic will arrange transportation for east coast BLT.

g. Prepare a report covering all phases of the exercise, and submit via channels to CMC.

h. Upon completion the above missions redeploy elements to parent organizations and disband Headquarters.

6. You are authorized direct liaison with Commanding General, Fleet Marine Force, Atlantic and Exercise Director, Camp Desert Rock on matters relating to DESERT ROCK V.

7. You will notify the headquarters concerned of the desired dates the Infantry Battalions are to report for operational control.

8. The following extracts from reference (a) are furnished for information and compliance:

a. Exercise DESERT ROCK V - Marine Corps will be considered a field exercise and duty performed by personnel assigned to this exercise will be considered "field duty" with the purview of paragraph 4201.7, Joint Travel Regulations.

b. The Director of Public Information will be responsible for the dissemination of public information covering Marine Corps participation in the exercise.

c. Logistic support, to be provided by the Army at the camp site, will include billeting, subsistence and transportation. However, food service personnel to operate field messes utilized by the Marine Corps must be provided from the participating troops. Headquarters Marine Corps will reimburse the Department of the Army for logistic support furnished by the Army. (Note: You will provide CMC with a detailed financial report of reimbursable support received.)

d. In addition to the materiel listed in enclosure (2) the following supplies for demonstration purposes are authorized:

(1) One hundred (100) cases of C rations. To be provided by Commanding General, Force Troops, Fleet Marine Force, Pacific from operating level.

(2) Twelve (12) drums of motor gasoline (55 gallon frums), to be requisitioned from Army sources at Camp Desert Rock.

e. All hands will be equipped with gas masks.

f. The following minimum radiological defense personnel and equipment will be provided by each Infantry Battalion (-) (Reinforced) from personnel and equipment available to appropriate Fleet Marine Force commanders:

(1) Two (2) monitors per platoon.

(2) One (1) AN/PDR T-1 or T-1B per platoon.

(3) One (1) AN/PDR 27C per platoon.

g. Commercial transportation will not be utilized to transport equipment other than the demonstration materiel listed in enclosure (2).

9 Commanding General, Aircraft, Fleet Marine Force, Pacific has been directed to provide you with three (3) Marine Helicopter transport squadrons to report in sufficient time to permit at least one (1) rehearsal with the helicopter borne company(s) of the Infantry Battalion (-) (Reinforced) prior to departure for Camp Desert Rock. Direct liaison is authorized.

10. Commanding General, Department of Pacific has been requested to provide you with logistic support in accordance with your requirements. Direct liaison is authorized.

11. Necessary funds, and orders will be provided for by this headquarters.

12. Commandant, Marine Corps has made available the following officers to you as special advisors:

For period 20 March - 15 April

LtCol G. W. DAUGHTRY, 08128

Major T. E. SPIEKER, 023698

For period 3 April to 15 April.

LtCol H. C. BOEHM 06553

LtCol G. E. MOORE 07881

13. You are requested to keep this headquarters informed of the progress of the exercise.

[redacted] UNCLASSIFIED [redacted]
Security Information

14. This headquarters will make Movement Reports incident to activation of 2d MCPAEB. You are directed to submit all required subsequent Movement Reports in accordance with chapter FIVE USF-70(b) and Fleet Marine Force Pacific General Order Number 103.

/s/ R. H. Pepper
R. H. PEPPER

Copy to:

CG MCPAEB	10
CG FMF PAC	2
CG FMF Lant	10
CG Air FMF Pac	6
CG Department of Pacific	4
CMCS	2
File	10

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ENCLOSURE (1)

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Security Information

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CONCEPT OF MARINE CORPS EXERCISE

1. Mission:

a. To familiarize personnel with the effects of atomic weapons.

b. To test and further develop tactics and techniques for placing helicopter borne forces on objectives in close proximity to ground zero.

c. To afford commanders and staffs realistic training in planning and conducting operations that are supported by atomic weapons.

d. To provide actual training in radiological survey operations.

e. To familiarize personnel with the individual and collective means that may provide protection against the atomic weapon.

2. Plan of actual exercise:

a. Deploy a fraction of forces in entrenchments, with the remainder enplaned in helicopters prepared to move to the objective area on signal.

b. Assault objectives in close proximity to ground zero with combination of helicopter-borne force committed to closely support the main effort in a simulated amphibious assualt.

c. Observe demonstration of equipment, dummies and/or animals.

d. Return to Camp Desert Rock via helicopters and trucks.

ENCLOSURE (1)

ENCLOSURE (1) of ser 0011

[redacted]

RESTRICTED DATA ATOMIC ENERGY ACT 1946

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ITEM	PLANNED ALLOWANCE
ORDNANCE:	
Rifle, U.S. Cal 30, M1903	10
Carbine, U.S. Cal 30, M1	10
Gun, machine, Cal 50, Browning, M2 Watercooled, w/Mount, AA, Cal 50, M3	4
Mortar, 81mm, M1, w/Mount, Mortar, 81mm, M4	4
Gun, Machine, Cal 30, Browning, M1917A1, w/Mount, Tripod, Machine Gun, Cal 30, M1917A1	4
Howitzer, 105mm M2A1 w/carriage Howitzer 105mm M2A1	2
Circle, aiming, M1	4
Carriage, Motor, 105mm Howitzer, M7	2
Unit, cleaning, not water, 25 gallon (aeroil), w/burner, complete	2
Flame thrower, portable, M2-2	4
Landing Vehicle, tracked, Mk IV, LVT(4)	2
Tank, Meduim, M4A3	2
Launcher, rocket, 2.36 inch, M9	4
Telescope, Panoramic, M12A2, w/Mount	2
ELECTRONICS:	
Switchboard BD-72	2
Radio Set TBX-8	2
Radio Set SCR-536	2
Radio Set SCR-300	2
Wire, W-110-B, on Reel DR-4, miles	2

ENCLOSURE (1)

ENCLOSURE (2) of ser 0014

[redacted]

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ITEM	PLANNED ALLOWANCE
Panel Set VS-5/u	[redacted] 4
Radar Set SP-1M	1
Reel Unit RL-31	2
Wire WD-1/TT in Dispenser MX-306/G	2
Reel Equipment CE-11	2
Telephone EE-8	4
GENERAL SUPPLY:	
STANDARD COLD WEATHER UNIFORM:	
BOOT, insulated, rubber, pr.	2
CAP, field, cotton, M1951	2
DRAWERS, winter, M50	2
HOOD, jacket, field, M1951	2
JACKET, shell, field, M1951	2
LINER, jacket, field, M1951	2
LINER, trouser, field, M1951	2
MITTEN-SHELLS, trigger finger, type 1	2
MITTENS, inserts, trigger finger, M1948	2
SOCKS, wool, cushion sole, O.D. pr.	2
SUSPENDERS, trouser M50, pr.	2
TROUSERS, shell, field, M1951	2
UNDERSHIRT, winter, M50	2
SUPPLEMENTARY ITEMS:	
HOOD, parka, M1951	1
PARKA, liner, M1951	1

UNCLASSIFIED

[redacted]

ITEM	PLANNED ALLOWANCE
LINER, trouser, artic, M1951	1
MITTENS, artic, M1949	1
PARKA-SHELL, M1951	1
TROUSER, shell, arctic, M1951	1
OTHER CLOTHING AND EQUIPMENT:	
BELT, web, trousers, w/buckle	4
BOOTS, field	10
COAT, utility	5
DRAWERS, cotton, white	2
SHIRT, cotton, khaki	5
SHIRT, flannel, green	5
SOCKS, wool, cushion sole, O.D.	4
TROUSERS, service, khaki	5
TROUSERS, utility	5
UNDERSHIRT, cotton, white	2
HELMET, steel, M1	4
LINER, helmet, M1, complete	
VEST, armored, M1951	2
ARMOR, body, lower torso	2
MANIKINS	4

ENCLOSURE (1)

ENCLOSURE (2) of ser 0011

[redacted]

[redacted]

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[redacted] UNCLASSIFIED

SUPPLY AND ACCOUNTING INSTRUCTIONS RELATIVE TO [redacted]

DEMONSTRATION MATERIEL, EXERCISE DESERT ROCK V

1. Requisitions for the equipment and clothing items listed in enclosure (2) will be submitted by the Commanding General, 2d Marine Corps Provisional Atomic exercise Brigade as follows:

a. Ordnance Materiel:

(1) All items will be requistioned from the Commanding General, (Ordnance), Marine Corps Depot of Supplies, San Francisco, California. Records of this Headquarters indicate that all items are "on-hand" at the Barstow Annex.

(2) All items should be requisitioned as "unserviceable" with the below modifications relative to the indicated items:

(a) "Howitzer, 105mm, M2A1, w/carriage, howitzer, 105mm, M2A1"-- to be furnished without fire control equipment. The howitzer must be capable of movement by prime mover.

(b) "Carriage, motor, 105mm, Howitzer, M-7"-- to be furnished without CVM, Communication or fire control equipment. The carriage, motor must be capable of movement under its own power at the test site.

(c) "Landing vehicle, tracked, MkIV, LVT(4)"-- to be furnished without CVM or communication equipment. The vehicle must be capable of movement under its own power at the test site.

(d) "Tank, medium, M4A3"-- to be furnished with 75mm gun, if possible; otherwise, to be furnished with 105mm howitzer. The vehicle should be furnished without CVM, communication or fire control equipment. The Tank must be capable of movement under its own power at the test site.

b. Electronics Materiel:

(1) All items should be requisitioned as "unserviceable" from the following sources:

(a) Commanding General, (Electronics), Marine Corps Depot of Supplies, San Francisco, California:

1. Switchboard, BD-72
2. Radio Set, SCR-536
3. Radio Set, SCR-300
4. Wire, W-110-B, on Reel DR-4
5. Panel Set, VS-5/U
6. Radar Set, SP-1M

7. Wire, WD-1/TT in dispenser MX-306/G

8. Telephone, EE-8

(b) Commanding Officer, (Electronics), Marine Corps Supply Depot, Camp Pendleton:

1. Radio Set, TBX-8

2. Reel Unit, RL-31

3. Reel Equipment, CE-11

c. General Supply:

(1) All items should be requisitioned as in "new" condition except the "Manikins" listed as the last item in enclosure (2). The "Manikins" should be in "serviceable" condition.

(2) With the exception of the below listed items, all General Supply items cited in enclosure (2) should be requisitioned from the Commanding Officer, (General Supply), Marine Corps Supply Depot, Camp Pendleton:

(a) Hood, parka, M1951

(b) Vest, armored, M1951

The above two (2) items should be requisitioned from the Commanding General, (General Supply), Marine Corps Depot of Supplies, San Francisco, California.

(3) The below listed General Supply items, listed in enclosure (2), must be shipped from the Marine Depot of Supplies, Philadelphia, Pennsylvania:

(a) Liner, Trouser, field, M1951

(b) Trousers, shell, field, M1951

(c) Parka, liner, M1951

(d) Liner, trouser, arctic, M1951

(e) Mittens, arctic, M1949

(f) Parka-shell, M1951

(g) Trousers, shell, arctic, M1951

(h) Armor, body, lower torso

(i) Manikins (need not be in new condition)

These items will be shipped to the Marine Corps Supply Depot, Camp Pendleton, by shipping order issued by Headquarters, United States Marine Corps, to meet the requirement of the requisition submitted in accordance with paragraph 1c (1), above.

2. The Commanding General, 2d Marine Corps Provisional Atomic Exercise Brigade will stipulate the point of delivery, including specific railhead information, as applicable, and the consignee to receive items requisitioned against the allowance set forth in enclosure (2).

3. The Commanding General, Fleet Marine Force, Pacific Troops will advise the Commanding General, 2d Marine Corps Provisional Atomic Exercise Brigade, Commanding General, Fleet Marine Force Pacific and CMC, as to the Accountable Officer to whom items shipped shall be invoiced.

4. The cost of necessary shipment of items listed in enclosure (2) will be borne by the Marine Corps. Local arrangements for commercial transportation of such items, as required, using Route Order M-530000 as authority therefor, will be made by the following:

Commanding General, Marine Corps Depot of Supplies, San Francisco, California

Commanding Officer, Barstow Annex, (Marine Corps Depot of Supplies, San Francisco), Barstow, California.

Commanding Officer, Marine Corps Supply Depot, Camp Pendleton, California

The Commanding General, Marine Corps Depot of Supplies, San Francisco, California will coordinate shipments, obtaining clearances for overweight and/or oversize equipment where necessary, advising Headquarters Marine Corps (Code CSJ) of any Section Twenty-Two (22) quotation(s) tendered by carriers with recommendation(s) as to utilization.

5. Upon completion of the exercise you will submit the required expenditures on equipment drawn against enclosure (2) to Commanding General, Fleet Marine Force, Pacific, who has been authorized to approve. All items not expended with be disposed of in accordance with current supply procedures, and the account closed out prior to final disbandment of the headquarters. As provided for by paragraph 54552.2, Marine Corps Manual, survey action is not required in conjunction with disposal of the demonstration items if, "in the opinion of the Commanding Officer or Accountable Officer no culpability attaches to its loss, damage or worn-out condition." Expenditure on non-economically repairable items will be by certificate in accordance with paragraph 54502.2, Marine Corps Manual.

TROOP LIST FOR INFANTRY BATTALION (-) (Reinforced)

	USMC OFF	USMC ENL	USN OFF	USN ENL
Infantry Battalion (-) (Reinforced)	42	865	3	40
Infantry Battalion (-1 Rifle Co and 1 Weapons Co)	28	610	2	40
105mm Howitzer Battery (-)	6	104		
Tank Platoon	1	28		
Engineer Platoon	1	38		
Ordnance Maintenance Co (-)	1	20		
Regimental TACP	1	8		
Battalion TACP	2	8		
Battalion NGFL Party	0	8	1	0
Aviation Detachment	2	41		

HEADQUARTERS
2D MARINE CORPS PROVISIONAL
ATOMIC EXERCISE BRIGADE
CAMP PENDLETON, CALIFORNIA

UNCLASSIFIED

[redacted]

JSC/afj
Ser: 2-53
9 March 53

From: Commanding General
To: Commanding General, Fleet Marine Force, Atlantic
Commanding General, Fleet Marine Force, Pacific Troops
Commanding General, Air Fleet Marine Force, Pacific

Subj: Participation in Desert Rock V; instructions for

Ref: (a) CMC sec ltr ser 003C35152 12 Jan 53
(b) MarCorps GO #83, Change 2

Encl: (1) Instructions for participating units

1. This headquarters was activated on 2 March 1953, for the purpose of conducting the Marine Corps phase of troop participation in the series of atomic tests to be conducted at the Nevada Proving Grounds by the Atomic Energy Commission.

2. In connection with the Marine Corps exercise, this letter is intended to serve as a guide for the formation of participating battalions and instructions for required training and equipping of organizations (battalions and helicopter group) prior to arrival at Camp Desert Rock, Nevada.

3. It is requested that in the order directing the formation of the participating battalion, there be included the requirement that parent organizations will:

a. Certify to the battalion concerned that all participants are american citizens.

b. Include in orders, or otherwise show by certificate, that the clearance required of each individual has been granted.

c. Insure the completion of Form DD-93, (Emergency Data Record) and forwarding to the battalion concerned.

d. Insure that personnel have required uniforms and equipment.

e. Insure that personnel have been or will be paid prior to departure for Camp Desert Rock.

f. Assist in preparation of photographs and information as required by PIO, Headquarters, Marine Corps.

4. Organization

a. (1) It is planned and will be desirable to have the Infantry Battalions organized as follows by 20 March 1953, or as soon thereafter as practicable:

ENCLOSURE (2)

[redacted]

[redacted]

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	USMC		USN	
	OFF	ENL	OFF	ENL
Battalion Hq (reinf)	21	202	3	40
3 Rifle Companies	21	663		
Weapons Company	(Simulated for Problem)			

(2) It is expected that the participating battalions will consist of an organized FMF Infantry Battalion less one rifle company and weapons company. The third rifle company and additional battalion headquarters personnel may be organized from the following units:

	USMC		USN	
	OFF	ENL	OFF	ENL
105mm Howitzer Battery (-)	6	104		
Tank Platoon	1	28		
Engineer Platoon	1	38		
Ordnance Maintenance Co (-)	1	20		
Regimental TACP	1	8		
Battalion TACP	2	8		
Battalion NGFL Party	0	8	1	0
Aviation Detachment	2	41		

(3) The total personnel in the participating battalion shall not exceed 950. However, the attainment of this maximum strength is not mandatory and it is recommended that no attempt be made to replace individuals who become casualties during the formation and training period. This brigade is restricted to a total strength of 2100. This strength will be exceeded by the ground force of the Helicopter Group. It is expected that these personnel will be permitted to view the shot only if a reduction in other forces has been made.

(4) Participating organizations will be required to furnish sufficient food service personnel to operate respective messes.

(5) One officer in each company shall be assigned additional duty as Radiological Defense Officer and all OF 57 billets shall be filled.

(6) Each man shall be instructed in the use of the gas mask.

b. Additional information regarding the organization of the Helicopter Group will be the subject of separate correspondence.

ENCLOSURE (2)

[redacted] UNCLASSIFIED

5. Organizational Equipment

a. Only the organizational equipment listed below is required by the Battalion from FMF, Atlantic:

Flashlight	TL-122-D	20
Radiac Set	AN/PDR T1 (B)	1 per platoon
Radiac Set	AN/PDR 27 (C)	1 per platoon
*Radio Set	AN/PRC-6	21
*Radio Set	AN/PRC-10	9

b. Organizational equipment required by the Battalion from FMF, Pacific, and the Helicopter Group will be the subject of separate correspondence.

6. Administrative instructions effective at Camp Desert Rock will be promulgated later.

J. S. Cook

J. S. COOK JR.
Chief of Staff

Copy to:
CG 2dMarDiv
CG 3dMarDiv
CG AirFMFLant
CO Mag 16

* Prepare to operate radios for six (6) hours

[redacted] UNCLASSIFIED [redacted]

PRELIMINARY INSTRUCTIONS FOR ORGANIZATIONS

1. **TRAINING**

a. Organizational commanders will conduct training as follows, prior to arrival at Camp Desert Rock.

(1) As required by reference (b).

(2) Radiological safety training to insure qualified Radiation Monitors on a basis of two (2) per platoon.

(3) Adequate unit training to insure tactical control.

2. **INTELLIGENCE**

a. All participating personnel must be United States citizens. Clearance of SECRET is required for all officers, and CONFIDENTIAL for all enlisted men. This information shall be submitted by each organization in the form of a certificate which contains as an enclosure rosters of all personnel, to include the following:

(1) Officer: First; middle and last name; rank; file number; parent organization; and security clearance.

(2) Enlisted: First name, middle initial and last name; rank; serial number; parent organization; and security clearance.

b. In order that organizational commanders may be in a position to accomplish the rosters called for above, parent organizations shall provide certificates of clearance. These certificates of citizenship and clearance on individuals will be retained by the organizational commanders.

c. All personnel are required to have in their possession at all times a valid Armed Forces Identification Card and Dog Tags.

d. No privately-owned cameras are permitted at Camp Desert Rock.

e. The following is the classification guide for Desert Rock V:

		BEFORE TEST	AFTER TEST
(1)	Dates of Exercises	Confidential	Unclassified
(2)	Time of Detonation	Confidential	Confidential (Exact time within one minute) otherwise unclassified.
(3)	Code Name Desert Rock	Unclassified	Unclassified
(4)	Code Name Operation UPSHOT-KNOTHOLE	Restricted	Restricted
(5)	Type of Shot (Air or Tower)	Confidential	Classified until declassified by joint action of AEC and DOD

ENCLOSURE (2) ENCLOSURE (1) of ser 2-53

(6) Height of Burst	Confidential Restricted Data	Confidential Restricted Data
(7) Yield of Weapon	Secret Restricted Data	Secret Restricted Data
(8) Approximate distance of troops from Ground Zero	Restricted	Unclassified
(9) Exact distance of troops from Ground Zero	Confidential	Confidential
(10) Location of Demonstration equipment	Confidential	Confidential
(11) Damage to equipment without reference to location	Unclassified	Unclassified

3. OTHER INSTRUCTIONS

a. Organizational commanders will insure that completed emergency data record (Form DD-93) for all personnel will be available to turn over to this headquarters upon arrival at Camp Desert Rock.

b. At Camp Desert Rock:

(1) There will be no payment of personnel.

(2) A Camp Exchange with limited stock will be available.

(3) No laundry or dry cleaning facilities are available.

(4) Church services are available for all faiths.

c. Personal mail will not be addressed to Camp Desert Rock, nor will Camp Desert Rock be used as a return address.

d. Liberty cards should be made available in the event liberty can be granted.

e. A limited supply of softball gear should be included in organizational equipment.

f. Operation of messes will be accomplished by organizations.

g. Personnel will have the following minimum articles of uniform and equipment:

1 Helmet, steel	1 Canteen
1 Liner, Helmet	1 Cup, canteen
1 Cover, Helmet, camo	1 Cover, canteen
1 Belt, pistol, web, w/carrier mag or Belt, cartridge, web	1 Kit, jungle, first aid
	1 Mask, gas, service (tested and fitted)

1 Meat Can

1 Meat Can Cover

1 Knife

1 Fork

1 Spoon

Enlisted only:
Transport Pack

Individual weapon

1 Uniform, winter service "A"

1 Boots, service, combat, pr (or field shoes with leggings)

2 Coats, utility, ea

2 Trousers, utility, ea

1 Cap, utility, ea

1 Jacket, field, M-1943

4 Drawers, cotton, ea

4 Undershirts, cotton, ea

1 Drawers, wool, ea

1 Undershirt, wool, ea

3 Shocks, wool cushion sole, pr

1 Shoes, low quarter, pr

1 Gloves, pr

Toilet articles

h. It is desired that the green uniform be prescribed for the movement to Camp Desert Rock and that baggage be restricted to the Transport Pack for enlisted men and one bag, Val-Pak or similar type, for officers.

UNCLASSIFIED

[redacted]

2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Pendleton, California
0800U 25 March 1953

ADMINISTRATIVE PLAN)
NUMBER.....1-53) : Desert Rock V, Marine Corps

1. Supplies and Equipment

a. Class I Camp Desert Rock

(1) Rations: Type "A" daily to galleys Camp Desert Rock.

(2) Water: Faucets located at north end each tent block. Observe water discipline.

b. Class II

(1) Crew served weapons: None

(2) Vehicles: (Annex ABLE)

(3) Office: (Annex ABLE)

(4) Rad-Safety: (Annex ABLE)

(5) Signal: (Annex ABLE)

(a) Spare Parts and maintenance equipment: Hq 2d MCPAEB 14 days.

(6) Engineer: (Annex ABLE)

(7) Individual Equipment: (Annex ABLE)

(8) Aprons, caps, coats, trousers f/cooks and bakers: 6 per cook and messman. Hq 2d MCPAEB provide for BLT 2/3 and BLT 1/8.

(9) Mess equipment: (Annex ABLE)

(10) Camp Desert Rock.

(a) Cots and bedding: Hq 2d MCPAEB

(b) Tentage: In place.

(c) Supplies, expendable, Camp: Hq 2d MCPAEB.

c. Class II A

(1) TBA and Section U: MAG (HR) 16, 7 days.

(2) Section "B": MAG (HR) 16, major items hold MCAF, Santa Ana, for delivery as required.

d. Class III Camp Desert Rock

(1) Gasoline, regular: Camp Desert Rock at gas station: (Annex BAKER)

ENCLOSURE (3)

[redacted]

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RESTRICTED
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(2) Gasoline, white: Daily to galleys by Camp Desert Rock.

(3) Fuel, tent stoves: Daily to Bn area by Camp Desert Rock.

e. Class III A

(1) Gasoline, 100 octane, Indian Springs AFB: Refuelers.

f. Class V

(1) Ammunition: None (Specifically prohibited)

2. Evacuation, Camp Desert Rock

a. Personnel:

(1) Routine: Organizational Sick Bay to Camp Dispensary.

(2) Shot Day: Later.

b. Vehicle: To 2d MCPAEB Motor Park.

c. Demonstration Equipment and Supplies: Later.

3. Personnel: Camp Desert Rock

a. Strength Records and Reports

(1) Troop List: To Hq 2d MCPAEB on arrival. Submit complete roster of all personnel alphabetically by rank, with standard identifying information and security clearance.

(2) Personnel locator system: By organization.

(3) Strength Report: Daily by 0800 to Hq 2d MCPAEB.

b. Discipline Law and Order: Camp Desert Rock.

(1) MP's: as directed. Brassards Hq 2d MCPAEB.

(2) Camp Desert Rock:

(a) Internal Security: Bn and Hq Areas.

(b) Disciplinary Action: None. Reports will be furnished to parent unit on return. Any case requiring physical restraint refer to Hq 2d MCPAEB.

c. Morale: Camp Desert Rock.

(1) Mail, incoming, personal: None.

(2) Payment of Troops: None.

(3) Religious Services: Catholic and Protestant. Schedule to be announced.

(4) Liberty: Later.

(5) Post Exchange: (Annex BAKER)

d. Quartering and Billeting, Camp Desert Rock.

(1) Hq 2d MCPAEB: 700 Block.

(2) BLT 2/3: 500 Block.

(3) BLT 1/8: 600 Block.

(4) MAG (HR) 16: 700 Block.

4. Miscellaneous, Camp Desert Rock.

a. Laundry Facilities: None.

b. All vehicles 2d MCPAEB Motor Park when not in use.

c. Ration requests: Submit daily, one day in advance to Hq 2d MCPAEB on ration request forms.

d. Boxes and crates: Retained intact for re-use.

e. Reports of Supplies used: Daily to Hq 2d MCPAEB.

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK JR.
Colonel, U. S. Marine Corps
Chief of Staff

ANNEXES:

ABLE: Supplies and Equipment
BAKER: Camp Desert Rock, Sketch

DISTRIBUTION:

Hq 2d MCPAEB	10
MAG (HR) 16	10
BLT 2/3	10
BLT 1/8	10
CG Camp Desert Rock	1

OFFICIAL:

JOSEPH T. SMITH JR.
Major, USMC
ACofS G-4

ENCLOSURE (3)

[redacted]

[redacted]

[redacted] UNCLASSIFIED

2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
0800, 25 March 1953

Annex ABLE to Administrative Plan 1-53

SUPPLIES AND EQUIPMENT

1. Class II

a. Vehicles

(1) Hq 2d MCPAEB

TRUCK, cargo 2 1/2 ton, 6x6:	10
TRUCK, 1/4 ton, 4x4, cargo:	5
TRUCK, 3/4 ton, weapons carrier:	1
TRUCK, 2 1/2 ton, 6x6, wrecker:	1
TRUCK, 2 1/2 ton, 6x6, dump:	1
TRAILER, 1 ton, 2 wheel, stock room:	1
TRAILER, photo:	2
SEDANS, Chev, 4x2:	5

(2) BLT 2/3: For Hq 2d MCPAEB

TRUCK, 1/4 ton, 4x4, cargo:	9
TRUCK, 3/4 ton, weapons carrier:	3
TRAILER, 1/4 ton, 2 wheel cargo:	4
TRAILER, water, 400 gal:	2

(3) MAG(HR)16

REFUELER, 2000 gal:	1
REFUELER, 800 gal:	1
TRUCK, 1/4 ton, 4x4, cargo:	1

b. Office

(1) Hq 2d MCPAEB

DESK, field:	12
TYPEWRITER, Standard:	12
TYPEWRITER, long carriage:	2
TYPEWRITER, portable:	2
CHEST, typewriter, small:	12

[redacted]

[redacted] UNCLASSIFIED

CHEST, typewriter, large:	2
STAND, f/desk, field:	29
MACHINE, duplicating:	3
SAFE, field:	1
CHAIR, folding:	24
STOOL, folding:	50
DRAFTING EQUIPMENT, company set:	1

(2) BLT 2/3

DESK, field:	7
TYPEWRITER:	2
STAND, f/desk, field:	7
CHEST, typewriter, small:	2
LOCKS, pad, general purpose:	7
STOOLS, folding, canvas:	12

(3) BLT 1/8, Hq 2d MCPAEB provide

TYPEWRITER, standard:	2
CHEST, typewriter, small:	2
STAND, f/desk, field:	2

(4) MAG(HR)16

TYPEWRITER:	8

c. Rad-Safety

(1) Hq 2d MCPAEB

AN/PDR T-1 (B):	4
AN/PDR T-27 (C):	4

(2) BLT 2/3

AN/PDR T-1 (B):	one per platoon
AN/PDR T-27 (C):	one per platoon

(3) BLT 1/8

AN/PDR T-1 (B): one per platoon

AN/PDR T-27 (C): one per platoon

(4) MAG(HR)16

AN/PDR T-1 (B): 4

d. Signal

(1) Hq 2d MCPAEB

Radio Set AN/MRC 6:	3
Radio Set AN/PRC 6:	2
Radio Set AN/PRC 10:	6
Switchboard SB-22:	3
Telephone EE 8:	14
Wire, WDI/TT, Reels:	3

(2) BLT 2/3

Radio Set AN/MRC-19(B):	1
Radio Set AN/PRC-6:	21
Radio Set AN/PRC-10:	9

(3) BLT 1/8

Radio Set AN/PRC-6:	21
Radio Set AN/PRC-10:	9

e. Engineer

(1) Hq 2d MCPAEB

Generator 2.5kw:	3

f. Mess Equipment

(1) Hq 2d MCPAEB provide for all units

CRS, fork:	200
CRS, knife:	200
CRS, spoon:	200
Tray, Mess:	200

[redacted]ED

Annex ABLE to Administrative Plan 1-53 (Cont'd)

g. Individual Uniform and Equipment

(1) ENLISTED

Uniform, winter service "A":	1
Boots, service, combat, pr:	1
Coats, utility, ea:	2
Trousers, utility, ea:	2
Cap, utility, ea:	1
Undershirts, cotton, ea:	4
Drawers, wool, ea:	1
Drawers, cotton, ea:	4
Undershirt, wool, ea:	1
Socks, wool cushion sole, pr:	3
Shoes, low quarter, pr:	1
Helmet, steel:	1
Liner, helmet:	1
Cover, helmet, camo:	1
Belt, pistol/(or cartridge) web:	1
Carrier, magazine f/belt pistol:	1
Canteen:	1
Cup, canteen:	1
Cover, canteen:	1
Cover, meat can:	1
Can, meat:	1
Knife, Fork, Spoon, ea:	1
Pouch, first aid:	1
Packet, first aid:	1
Mask, gas, service:	1
Mitten Insert, Trigger finger, M1948, pr:	1

Mitten Shell, Trigger finger, type I, pr: 1

Individual weapon

Transport Pack

(2) OFFICERS Same as enlisted less:

Transport Pack

Cover, meat can

Can, meat

Knife, fork, spoon

Plus: One bag, Val-Pak, (or similar type)

2. Medical

a. BLT 1/8: Hq 2d MCPAEB provide

Field medical unit:	1
Dispensary set:	1
Blanket set, small:	1
Serum Albumin, Human, 25gm, 100cc can:	12
Battle Dressing and board splints:	as determined

b. BLT 2/3

Field Medical Unit:	1
Dispensary Set:	1
Blanket Set, small:	1
Serum Albumin, Human, 25gm, 100cc can:	12
Battle dressings and board splints:	as determined

c. MAG(HR)16

Unit 11 sick call set:	1
Unit 1 emergency first aid set:	1
Heating, lighting and sterilizing unit:	1

[redacted]

Annex ABLE to Administrative Plan 1-53 (Cont'd)

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK JR.
Colonel, USMC
Chief of Staff

DISTRIBUTION:

CG, Camp Desert Rock	1
Hq 2d MCPAEB	10
BLT 2/3	10
BLT 1/8	10
MAG(HR)16	10

O F F I C I A L

JOSEPH T. SMITH JR.
Major, USMC
ACofS, G-4.

ENCLOSURE (3)

[redacted]

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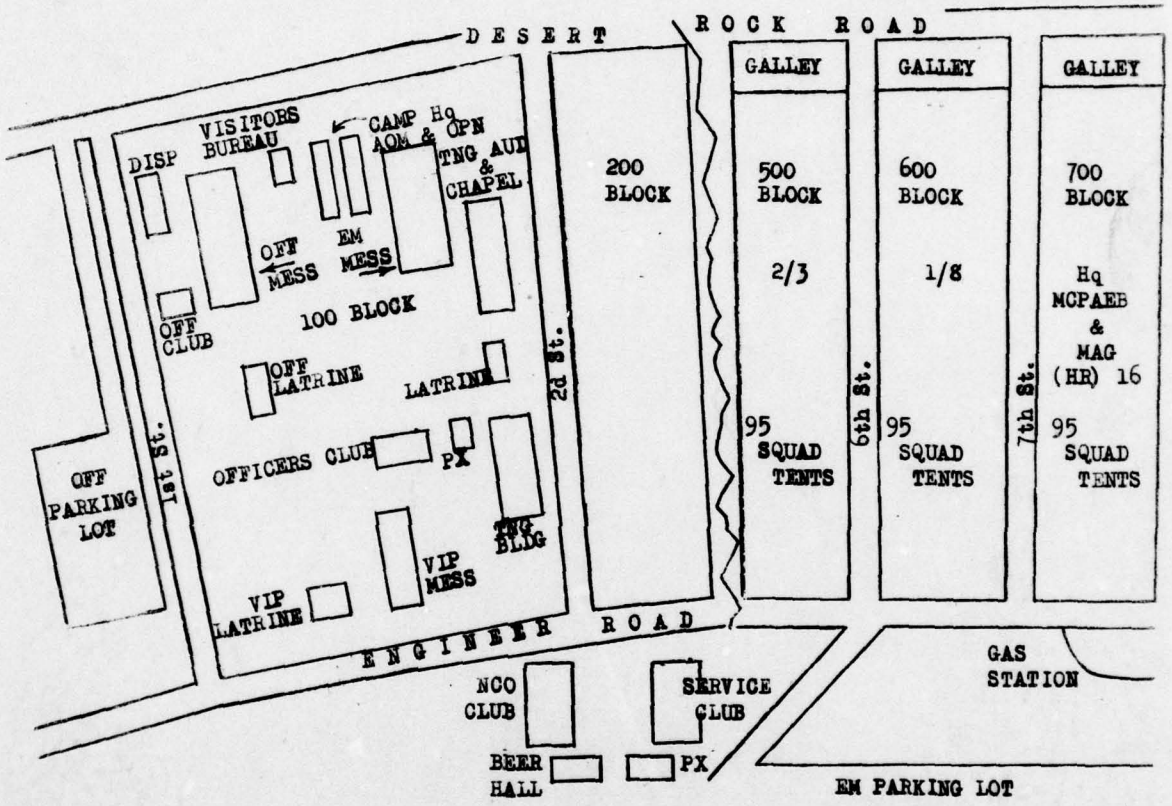
[redacted]
4/JTSJr/sjb

2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Pendleton, California
0800 25 March, 1953

Annex BAKER to Administration Plan 1-53



CAMP DESERT ROCK not to scale

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK Jr.
Colonel, U. S. Marine Corps
Chief of Staff

DISTRIBUTION:
Same as Administration Plan 1-53

OFFICIAL:

JOSEPH T. SMITH Jr.
Major, USMC
ACofS, G-4

ENCLOSURE (3)

[redacted]

[redacted]

UNCLASSIFIED

Headquarters Company
2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Pendleton, California
12 March 1953

TRAINING SCHEDULE
23 Mar - 1 Apr 53

DATE	HOURS	SUBJECT	PLACE	INSTRUCTOR	UNIFORM & EQUIPMENT	REFERENCE	REMARKS
23 Mar	0730-0830	Drill for Foot Troops		Hqtrs Comdt	Uniform of the Day	LPM	Port Sec
23 Mar	0830-0900	Movie-"Atomic Bomb"	12-T-1	Hqtrs Comdt	"		Port Sec
23 Mar	0900-0930	Movie-"Atomic Bomb"	12-T-1	Hqtrs Comdt	"		Starboard Sec
24 Mar	0730-0830	Drill for Foot Troops		Hqtrs Comdt	"	LPM	Starboard Sec
24 Mar	0830-0930	Principals of Atomic Explosion	12-T-1	Brigade Rad Defense Officer	"	COMTRACOMPAC INST 3400.1 MAR CORPS GEN ORDER #83 w/c2	Starboard Sec
24 Mar	0930-1130	Effects of Atomic Weapons	12-T-1	"	"	"	"
25 Mar	0730-0830	Drill for Foot Troops		Hqtrs Comdt	"	LPM	Port Sec
25 Mar	0830-0930	Principals of Atomic Explosion	12-T-1	Brigade Rad Defense Officer	"	COMTRACOMPAC INST 3400.1 MAR CORPS GEN ORDER #83 w/c2	Port Sec

ENCLOSURE (4)

UNCLASSIFIED

DATE	HOURS	SUBJECT	PLACE	INSTRUCTOR	UNIFORM & EQUIPMENT	REFERENCE	REMARKS
25 Mar	0930-1130	Effects of Atomic Weapons	12-T-1	Brigade Rad Defense Officer	Uniform of the Day	COMTRACO PAC INST 3400.1 MAR CORPS GEN ORDER #83 w/c2	Port Sec
26 Mar	0730-0830	Drill for Foot Troops		Hqtrs Comdt	"	LPM	Starboard Sec
26 Mar	0830-0930	Individual Protection Atomic Explosion	12-T-1	Brigade Rad Defense Officer	"	COMTRACO PAC INST 3400.1 MAR CORPS GEN ORDER #83 w/c2	Starboard Sec
26 Mar	0930-1130	Security of Military Information	12-T-1	G-2	"	Navy Security Manual	Starboard Sec
27 Mar	0730-0830	Drill for Foot Troops		Hqtrs Comdt	"	LPM	Port Sec
27 Mar	0830-0930	Individual Protection Atomic Explosion	12-T-1	Brigade Rad Defense Officer	"	COMTRACO PAC INST 3400.1 MAR CORPS GEN ORDER #83 w/c2	Port Sec
27 Mar	0930-1130	Security of Military Information	12-T-1	G-2	"	Navy Security Manual	Port Sec
28 Mar	0730-0830	Drill for Foot Troops		Hqtrs Comdt	"	LPM	Starboard Sec
28 Mar	0830-0930	Effects of Atomic Weapons	12-T-1	Brigade Rad Defense Officer	"	COMTRACO PAC INST 3400.1 MAR CORPS GEN ORDER #83 w/c2	Starboard Sec
28 Mar	0930-1100	Nuclear Radiation & Detection Instruments & Decontamination	12-T-1	"	"	"	"

(4) ENCLOSURE

UNCLASSIFIED

DATE	HOURS	SUBJECT	PLACE	INSTRUCTOR	UNIFORM & EQUIPMENT	REFERENCE	REMARKS
1 Apr	0930-1130	Use of Gas Mask	12-T-1	Hqtrs Comdt	Uniform of the Day	FM 21-40	Port Sec

Note: Lesson Plan will be submitted, to include training aids, to G-3 one day prior to instruction period.

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK Jr.
Colonel, U. S. Marine Corps
Chief of Staff

OFFICIAL:

H. F. SCHWETHELM
LtCol. USMC
AC of S, G-3

ENCLOSURE (4)

UNCLASSIFIED

DATE	HOURS	SUBJECT	PLACE	INSTRUCTOR	UNIFORM & EQUIPMENT	REFERENCE	REMARKS
28 Mar	1100-1130	Medical Aspects of Nuclear Radiation	12-T-1	Medical Officer	Uniform of the Day	COMTRACOMPAC INST 3400.1 MAR CORPS GEN ORDER #83 w/c2	Starboard Sec
30 Mar	0730-0830	Drill for Foot Troops		Hqtrs Comdt	"	LPM	Port Sec
30 Mar	0830-0930	Effects of Atomic Weapons	12-T-1	Brigade Rad Defense Officer	"	COMTRACOMPAC INST 3400.1 MAR CORPS GEN ORDER #83 w/c2	Port Sec
30 Mar	0930-1100	Nuclear Radiation & Detection Instruments & Decontamination	12-T-1	"	"	"	"
30 Mar	1100-1130	Medical Aspects of Nuclear Radiation	12-T-1	Medical Officer	"	"	"
31 Mar	0730-0830	Drill for Foot Troops		Hqtrs Comdt	"	LPM	Starboard Sec
31 Mar	0830-0930	Military Courtesy & Discipline	12-T-1	Hqtrs Comdt	"	FM 22-5	Starboard Sec
31 Mar	0930-1130	Use of Gas Mask	12-T-1	Hqtrs Comdt	"	FM 21-40	Starboard Sec
1 Apr	0730-0830	Drill for Foot Troops		Hqtrs Comdt	"	LPM	Port Sec
1 Apr	0830-0930	Military Courtesy & Discipline	12-T-1	Hqtrs Comdt	"	FM 22-5	Port Sec

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(4) ENCLOSURE

2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
12 April 1953

TRAINING SCHEDULE
FROM 13-18 APRIL

DAY & DATE	HOURS	SUBJECT	UNIT & PERSONS	PLACE *	UNIFORM & EQUIPMENT	REMARKS
MONDAY 13 Apr	0800	Reconnaissance	MCPAEB Staff	DR-MA	Utilities w/boots/leggings	
	All Day	PIO Briefing	All Cos 2/3	2/3 AREA	"	BN CMDRs schedule Cos desired Coordinate w/PIO
TUESDAY 14 Apr	0830-0930	G-3 Brief	BN CMDRs CO MAG 16	G-3 Section	"	
	1300	Reconnaissance	G-3, BN CMDRs, CO MAG 16	DR-MA	"	
	1300-1630	Rad Def Monitors' Instrument Calibration	Rad Def O & Monitors	G-3 Section	" & all #27 Radiacmeters & #TLBs	
	All Day	PIO Brief	All Cos 1/8	1/8 AREA	Utilities w/boots/leggings	BN CMDRs schedule Cos desired Coordinate w/PIO
WEDNESDAY 15 Apr	0800-1000	Lecture on Equipment Display for DR & Briefing for all troops	2/3	Outdoor Theater DR	"	Material & information furnished by G-3 section
	1000-1200	"	1/8	"	"	"
	1300-1330	Security briefing for all troops	1/8	"	"	By G-2 CDR
	1330-1400	"	2/3	"	"	"
	1300-1630	Rad Def Monitors' Instrument Calibration	Rad Def O & Monitors	G-3 Section	" & all #27 Radiacmeters & #TLBs	
THURSDAY 16 Apr	H-Hour	Rehearsal Exercise Desert Rock V		DR-MA	AS PER OPN PLAN 1-53	
FRIDAY 17 Apr	All Day	Prepare for D-day	All Units	Bn AREAS	Utilities w/boots/leggings	

* DR-DESERT ROCK
MA-MANEUVER AREA
CDR-CAMP DESERT ROCK

DISTRIBUTION:
Hq MCPAEB
All Bns
MAG-16

OFFICIAL:

H. F. Schwethelm

H. G. SCHWETHELM
LtCol., USMC
ACofS G-3

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK JR.
Colonel, U. S. Marine Corps
Chief of Staff

ENCLOSURE (4)

UNCLASSIFIED

[redacted] UNCLASSIFIED

2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Pendleton, California
0800H, 6 April 1953.

MOVEMENT PLAN)
: Desert Rock V, Marine Corps
NUMBER...1-53)

1. ORGANIZATION FOR MOVEMENT

a. General movement of personnel: (Annex ABLE)

b. Convoy: (Annex BAKER)

c. Airlift: (Annex CHARLIE)

2. SUPPLIES AND EQUIPMENT TO BE TRANSPORTED

a. Amount and Type: (Annex ABLE to Adm Plan 1-53)

b. Preparation

(1) To be boxed or crated

(2) Equipment needed prior to arrival Camp Desert Rock will be removed from desks, chests and safes

(3) All equipment and supplies to be airlifted shall be marked "AIRLIFT" in a conspicuous place with the weight and cube in lower left corner on top and sides of box. Vehicles to be air transported will have weight and cube marked in chalk on the hood

(4) Vehicles: As directed by the Motor Transport Officer

c. Movement of Supplies and Equipment to cargo assembly areas

(1) All cargo will be preloaded in vehicles

(2) Convoy vehicles: (Annex BAKER)

(3) Airlift vehicles: (Annex BAKER)

3. ASSEMBLY POINTS (Cargo and Vehicles)

a. Convoy: (Annex BAKER)

b. Airlift: (Annex CHARLIE)

4. CONTROL

a. Convoy: Motor Transport Officer

b. Airlift personnel and airlift vehicles: to be designated by Headquarters Commandant

c. Communications: Normal

ENCLOSURE (5)

[redacted]

[redacted] UNCLASSIFIED

MOVEMENT PLAN NUMBER 1-53 CONT'D

RESTRICTED
Security Information

5. MOVEMENT OF PERSONNEL

a. General: (Annex ABLE)

(1) Convoy: (Annex BAKER)

(2) Airlift: (Annex CHARLIE)

6. MISCELLANEOUS

a. Responsibilities and tasks:

(1) Convoy:

(a) Loading, assembly and movement: Motor Transport Officer

(2) Airlift:

(a) Preparation: Headquarters Commandant co-ordinate with Embarkation Officer

(b) Embarkation: Plane Team Commander

(c) Stowage: Plane Commander (Pilot) assisted by Plane Team

(d) Conduct aboard: Plane Team Commander

(e) Debarkation: Plane Team Commander

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK, JR.
Colonel, U. S. Marine Corps
Chief of Staff

ANNEXES:
ABLE—— General Movement of Personnel
BAKER—— Vehicle Movement Schedule
CHARLIE—— Airlift Movement Schedule

DISTRIBUTION:

CG Camp Desert Rock	1
Hq 2d MCPAEB	10
MAG (HR) 16	10
BLT 2/3	10
BLT 1/8	10
MAG 25	10

O F F I C I A L

Joseph T. SMITH JR.
Major USMC
AC of S, G-4

ENCLOSURE (5)

[redacted]

UNCLASSIFIED

2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Pendleton, California
0800U, 6 April 1953

Annex ABLE to MOVEMENT PLAN 1-53

GENERAL MOVEMENT OF PERSONNEL

1.	UNIT	VIA	PERSONNEL	ARRIVAL AT DESROCK
a.	MCPAEB	AirFMFPac	93	10 April 1953
b.	Convoy ABLE	Highway	58	10 April 1953
c.	MCPAEB	Private Conveyance	2	10 April 1953
d.	AdvEch BLT 2/3	VMR-253	42	11 April 1953
e.	AdvEch BLT 1/8	MAG-35	30	12 April 1953
f.	BLT 2/3	VMR-253	854	12 April 1953
g.	BLT 1/8	MAG-35	928	13 April 1953
h.	MAG 16	HMR HRS	4	13 April 1953
i.	Convoy CHARLIE	Highway	13	13 April 1953
j.	MAG 16	VMR-253	112	14 April 1953
k.	MAG 16	HMR HRS	143	14 April 1953

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK JR.
Colonel, U. S. Marine Corps
Chief of Staff

DISTRIBUTION:

CG Camp Desert Rock	1
Hq 2d MCPAEB	10
MAG (HR) 16	10
BLT 2/3	10
BLT 1/8	10
MAG 25	10

O F F I C I A L

Joseph T. SMITH JR
Major USMC
ACofS, G-4

ENCLOSURE (5)

[redacted]

UNCLASSIFIED

[redacted] UNCLASSIFIED

2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Pendleton, California
0800U, 6 April 1953

Annex BAKER to MOVEMENT PLAN 1-53

VEHICLE MOVEMENT SCHEDULE

1. CONVOY ABLE

a. Vehicles:

(1) Car, 5 passenger	3
(2) Trailer, 1/4 ton, 2 wheel cargo	7
(3) Trailer, 1-1/2 ton, 400 gal. (M106)	2
(4) Truck, 1/4 ton, 4x4	7
(5) Truck, 2-1/2 ton, 6x6 cargo	8
(6) Trailer, 2-wheel, stock room	1
(7) Trailer, photographic, MPPU	2
(8) Truck, 2-1/2 ton, 6x6, dump	1
(9) Truck, 2-1/2 ton, 6x6, wrecking	1
(10) Truck, 3/4 ton, weapons carrier	4

b. Assembly: all vehicles Post Motor Transport 12 Area prior 1630U, 8 April 1953

c. March Table:

(1) Depart Camp Pendleton, 0630U, 9 April 1953. ETA Barstow 1300U, 9 April 1953

(2) Depart Barstow, 0600U, 10 April 1953. ETA Camp Desert Rock 1500U, 10 April 1953

d. Personnel: 58

2. CONVOY BAKER

a. Vehicles:

(1) Truck, 1/4 ton, 4x4	7
(2) Truck, 1/4 ton, 4x4, radio mtd	4
(3) Truck, 2-1/2 ton, 6x6, cargo	2

b. March table:

[redacted] (1) Depart Camp Pendleton at 0600U, 11 April 1953. ETA [redacted] Toro 0800U, 11 April 1953

ENCLOSURE (5)

[redacted]

[redacted] UNCLASSIFIED

(2) Two (2) trucks, 2-1/2 ton, 6x6, (Item 2.a(3)), proceed to MCAF, Santa Ana ETA 0900U, 11 April 1953

c. Assembly: All vehicles Post Motor Transport 12 Area prior 1630U, 10 April 1953

d. Personnel: 16

3. CONVOY CHARLIE

a. Vehicles:

(1) Truck, 1/4 ton, 4x4	2
(2) Truck, 2-1/2 ton, 6x6, cargo	2
(3) Truck, 800 gal. refueler	1
(4) Truck, 2000 gal. refueler	1

b. March table:

(1) Depart MCAF, Santa Ana, California, 0500U, 13 April 1953. ETA Camp Desert Rock, 1900U, 13 April 1953

c. Personnel: 13

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK JR.
Colonel, U. S. Marine Corps
Chief of Staff

DISTRIBUTION:

CG, Camp Desert Rock	1
Hq 2d MCPAEB	10
BLT 2/3	10
BLT 1/8	10
MAG (HR) 16	10
MAG 25	10

O F F I C I A L

Joseph T. SMITH JR
Major USMC
ACofS, G-4

[illegible] (5)

[redacted] UNCLASSIFIED

2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Pendleton, California
0800U, 6 April 1953

Annex CHARLIE to MOVEMENT PLAN 1-53

AIRLIFT MOVEMENT SCHEDULE

	UNIT	DATE	TIME	VIA	PERSONNEL	EQUIP OR VEHICLES WGT
1.	2d MCPAEB	* 10Apr53	0800U	VMR 253	93	————
2.	BLT 2/3 (ADV.ECHELON)	* 11Apr53	0800U	VMR 253	42	————
3.	BLT 2/3 (MAIN PARTY)	* 12Apr53	0800U 1300U	VMR 253) VMR 253)	854	(4-trk4X4, rad,13200# (6-trk6X6,1/4ton,15900#
4.	MAG 16	** 13Apr53	0800U	HMR HRS	4	————
5.	MAG 16	* 14Apr53	0800U	VMR 253	112	Equipment 800#
6.	MAG 16	** 14Apr53	0800U	HMR HRS	143	

* Depart MAG 25 Area, El Toro, Calif
** Depart MCAF, Santa Ana, Calif

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK, JR.
Colonel, U. S. Marine Corps
Chief of Staff

DISTRIBUTION:

CG Camp Desert Rock	1
Hq 2d MCPAEB	10
MAG(HR)16	10
BLT 2/3	10
BLT 1/8	10
MAG 25	10

O F F I C I A L

Joseph T. SMITH JR
Major USMC
ACofS, G-4

ENCLOSURE (5)

[redacted]

[redacted]

UNCLASSIFIED

[redacted] UNCLASSIFIED 2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140800 April 1953

OPERATION PLAN)
: Desert Rock V, Marine Corps
NUMBER....1-53)

MAPS: Nevada 1:50,000 (Restricted)

Sheets:	Tippipah Spring	2758 II	Papoose Lake	2858 III
	Cane Spring	2757 I	Frenchman Lake	2857 IV
	Specter Range	2757 II	Mercury	2857 III

TASK ORGANIZATION:

2d MCPAEB	BrigGen BROWN, USMC
MAG (HR) 16	Col MITCHENER, USMC
2d Bn., 3d Marines	LtCol PRICE, USMC
1st Bn., 8th Marines	LtCol HARRIS, USMC

1. GENERAL SITUATION - The Atomic Energy Commission Test Command will detonate a nuclear weapon on D-day at H-hour in the Yucca Flat area of the Nevada Proving Ground.

a. None.

b. The Exercise Director, Camp Desert Rock Nevada will:

(1) Coordinate troop participation with AEC Test Command.

(2) Provide administrative and logistic support.

(3) Provide photodosimitry requirements.

2. a. This Brigade on D-day occupy tactical positions to observe atomic detonation prepared to advance on order to vicinity ground zero for briefing and observation of effects of the detonation.

b. (1) Boundaries, line of departure, direction, zones, objectives and sequence of events: (Annexes ABLE and CHARLIE).

(2) Routes of movement, entrucking and detrucking areas: (Annex BAKER).

(3) Equipment positions: (Annex GEORGE).

c. D-day: 18 April

d. H-hour: 0435

3. a. 2d Bn, 3d Marines occupy tactical positions in left [redacted] to observe atomic detonation, prepared to advance tactically, on order, to vicinity of ground zero for briefing and observation of effects of detonation. (Annex CHARLIE).

ENCLOSURE (6)

[redacted]

[redacted] UNCLASSIFIED

b. 1st Bn, 8th Marines occupy assigned tactical positions in right sector, to observe atomic detonation, prepared to advance tactically, on order, to vicinity of ground zero for briefing and observation of effects of detonation. (Annex CHARLIE).

c. MAG (HR) 16 occupy staging area prior to H-hour, displace forward, on order, to embarkation point, embark "E" Co., 2d Bn., 3d Marines and effect assault landing of troops on objective. (Annex CHARLIE).

d. "E" Co., 2d Bn., 3d Marines embark in helicopters, on order and effect assault landing on objective. Deploy tactically, prepared, on order, to advance to vicinity of ground zero for briefing and observation of effects of detonation. (Annex CHARLIE).

x. (1) BLT Commanders report dosimeter readings of three (3) roentgens to this Headquarters immediately and move unit concerned out of contaminated area. Personnel protective measures, radiological safety, decontamination: (Annex EASY).

(2) Display of equipment at demonstration area: (Annex GEORGE).

(3) Emergency evacuation of test area: (Annex FOX).

(4) Display equipment, technical instruments and structures in exercise test area will not be handled.

(5) Unit commanders insure field sanitation and police.

4. a. Uniform and equipment.

(1) Utility w/boots or field shoes w/leggings, trousers bloused.

(2) Jacket M-1943.

(3) Individual weapon.

(4) Appropriate web belt with canteen (filled) and Kit, First Aid, Jungle.

(5) Steel helmet w/brown camouflage cover.

(6) Gas Mask.

(7) Film Badge.

c. Lunches will be provided in field.

d. Medical facilities organic to organizations and SOP will be observed.

OPERATION PLAN NUMBER 1-53 CONT'D

[redacted] UNCLASSIFIED

5. a. Communications: (Annex HOW).

b. Command Posts: (Annex ABLE).

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK JR.
Colonel, U. S. Marine Corps
Chief of Staff

ANNEXES:

ABLE:	Sequence of Events
BAKER:	Movement Plan
CHARLIE:	Operation Sketch
DOG:	Helicopter Support Plan
EASY:	Radiological Safety
FOX:	Emergency Evacuation
GEORGE:	Equipment Demonstration
HOW:	Communications

DISTRIBUTION:

Hq2dMCPAEB	10
MAG (HR) 16	10
BLT 2/3	10
BLT 1/8	10
CG CDR	1

OFFICIAL:

H. F. Schwethelm

H. F. SCHWETHELM
LtCol., USMC
ACofS, G-3

ENCLOSURE (6)

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[redacted]

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[redacted]L

2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140800 April 1953

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ANNEX ABLE to OPERATION PLAN 1-53

SEQUENCE OF EVENTS

CONTROL CHART (Appendix 1)

1. D-1 designated air crews, MAG (HR) 16, depart Camp Desert Rock by HRS and proceed Yucca Air Strip (HRS Staging Area).

2. D-1 all troops and ground contingent, MAG (HR) 16, entruck Camp Desert Rock and proceed by convoy to entrenching area. (Appendix 1)

3. All troops assume tactical disposition in entrenchment area and take cover on order.

4. H-hour - Atomic Detonation.

5. Troops less Easy Company move in tactical formation in simulated attack on objectives immediately following shock wave; monitors preceeding and checking forward areas. Simultaneously Easy Company moves to helicopter embarkation area and embarks in HRS and awaits order for transportation to objective area; monitors preceeding in two HRS to check objective prior to air lift.

6. Troops reach objectives, form administratively and on order, move through display positions where they are oriented and briefed.

7. Troops are entrucked in display area and moved to monitoring and decontamination area, monitored and decontaminated.

8. On order, proceed Camp Desert Rock by convoy.

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK Jr.
Colonel, U. S. Marine Corps
Chief of Staff

APPENDICES:
1: CONTROL CHART

DISTRIBUTION:

Hq2dMCPAEB	10
MAG (HR) 16	10
BLT 2/3	10
BLT 1/8	10
CG CDR	1

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H. F. SCHWETHELM
LtCol. USMC
ACofS, G-3
ANNEX ABLE

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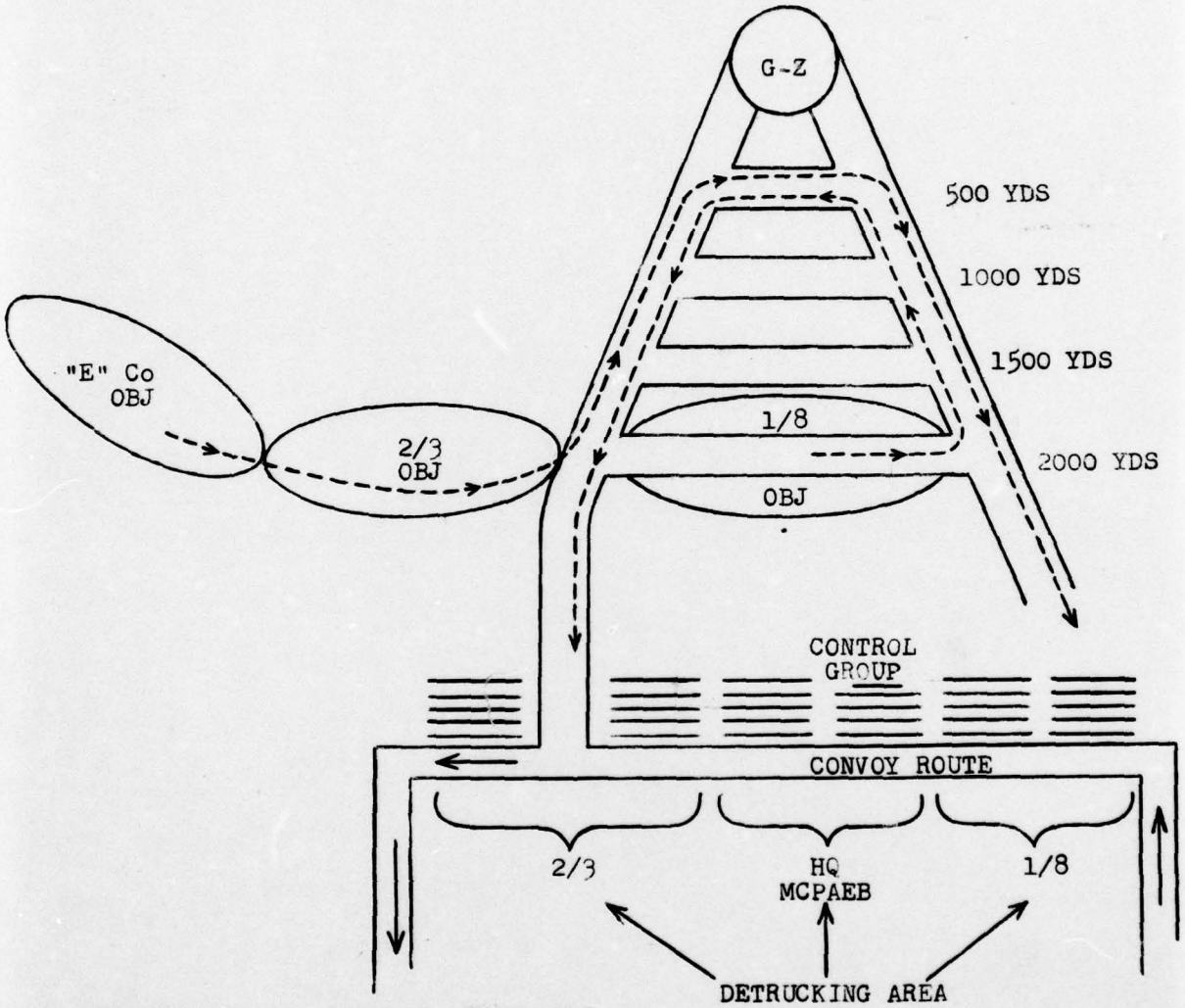
2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140800 April 1953

Appendix 1 to Annex ABLE to OPERATION PLAN 1-53

CONTROL CHART



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H. F. SCHWETHELM
LtCol. USMC
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Appendix 1

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Colonel, U. S. Marine Corps
Chief of Staff

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2d Marine Corps Provisional
At[redacted] Exercise Brigade
C[redacted] Desert Rock, Nevada
140800 April 1953

Annex BAKER To Operation Plan 1-53

MOVEMENT PLAN

Purpose

Move from Camp Desert Rock to entrenchment area.

1. Organization for Movement

2d MCPAEB	Serial #1		Brigadier General BROWN
2d MCPAEB Hdqs	March unit #2	Major BEKINS	
2d Bn, 3dMar (1)	March unit #3	LtCol PRICE	
2d Bn, 3dMar (2)	March unit #4	Major LIVESAY	
1st Bn, 8th Mar (1)	March unit #5	LtCol HARRIS	
1st Bn, 8th Mar (2)	March unit #6	Major DAVIS	

2. Vehicle Allocation

Camp Desert Rock will allocate to each battalion, a sufficient number of trucks, 2½ ton 6x6, to move the battalion and the number and type of vehicles to MCPAEB Hdqs sufficient to augment its own transportation.

3. Entrucking Points & Assembly Areas

a. To be announced

4. Control

a. Traffic-Camp Desert Rock Military Police

b. Responsibility of March Unit Commanders

(1) Ride in lead vehicle

(2) Maintenance of convoy speed, departure and arrival times.

(3) Appoint vehicle commanders.

c. Responsibility of Vehicle Commanders

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(1) In case of break downs, transfer personnel from truck to auxiliary vehicle at rear of march unit and report incident to first points reached after break down.

5. Movement & Entrucking of Personnel

a. Time for commencing muster & entrucking should be no later than:

March Unit #2	H-358
March Unit #3	H-343
March Unit #4	H-333
March Unit #5	H-318
March Unit #6	H-308

b. See Appendices 1 & 2

6. Miscellaneous

a. Certification and delivery of accurate vehicle rosters, must be made by each march unit Commander to control gate #1. Rosters shall be delivered by messenger who will be dispatched 10 minutes prior to movement of march unit.

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK JR.
Colonel, U. S. Marine Corps
Chief of Staff

Appendices:
1. Movement Schedule
2. Route Sketch

Distribution:
Same as Operation Plan 1-53

OFFICIAL:

/s/ H. F. Schwethelm
H. F. SCHWETHELM
LtCol., USMC
ACofS, G-3
Annex BAKER

[redacted]

2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140500 April 1953

Appendix 1 to Annex BAKER to Operation Plan 1-53

MOVEMENT SCHEDULE

				MOTOR MARCH		CONTROL OF MOVEMENT				
1	2	3	4	5	6	7	8	9	10	11
MARCH SERIAL	ORGN & CMDR	FROM *	TO *	RATE (MPH)	TIME LENGTH (MIN)	TIME OF MOVEMENT	LOCATION CRITICAL POINTS	ARRIVAL	CLEAR	CLOSE
(2)	2d MCPAE Hdqs BrigGen BROWN	CDR	IP	15	3	H-318	See Appendix 2	H-314	H-311	
		IP	C.G. #1	25	3			H-309	H-306	
		C.G.#1	C.G. #2	25	3			H-304	H-301	
		C.G.#2	RJ 36	30	3			H-282	H-279	
		RJ 36	CP of AEC	30	3			H-263	H-260	
		CP of AEC	C.P. #3	25	3			H-259	H-256	
		C.P.#3	RJ 20	25	3			H-251	H-248	
		RJ 20	RJ 32	8	3			H-239	H-236	
		RJ 32	RJ 38	8	3			H-221	H-218	
		RJ 38	RJ 31	8	3			H-209	H-206	
		RJ 31	RJ 28	8	3			H-203	H-200	
		RJ 28	RJ 41	8	3			H-197	H-194	
		RJ 41	RJ 43	8	3			H-191	H-188	

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Appendix 1 to Annex BAKER to Operation Plan 1-53 MOVEMENT SCHEDULE (CONT'D)

MARCH SERIAL	ORGN & CMDR	FROM *	TO *	RATE (MPH)	TIME LENGTH (MIN)	TIME OF MOVEMENT	LOCATION CRITICAL POINTS	ARRIVAL	CLEAR	CLOSE
	2d MCPAEB Hqds BrigGen BROWN	RJ 43	RJ 44	8	3		See Appendix 2	H-176	H-173	
		RJ 44	RJ 45	8	3			H-170		H-167
		RJ 45	ParkingArea	8	3	H-160		H-130		H-127
		RJ 45	RJ 20	15	3	H/255		H/304	H/307	
		RJ 20	C.P.#3	25	3			H/312	H/315	
		C.P.#3	C.G.#2	30	3			H/356	H/359	
		C.G.#2	C.G.#1	25	3			H/361	H/364	
		C.G.#1	IP	25	3			H/366	H/369	
		IP	CDR	15	3			H/370		H/373
(3)	2d Bn (1) 3d Mar LtCol., PRICE	CDR	IP	15	3	H-303		H-299	H-296	
		IP	C.G.#1	25	3			H-294	H-291	
		C.G.#1	C.G.#2	25	3			H-289	H-286	
		C.G.#2	RJ 36	30	3			H-26[illegible]	H-264	
		RJ 36	CP of AEC	30	3			H-248	H-245	
		CP of AEC	C.P.#3	25	3			H-244	H-241	
		C.P.#3	RJ 20	25	3			H-236	H-233	
		RJ 20	RJ 32	8	3			H-224	H-221	

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ENCLOSURE (6)

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Appendix 1 to Annex BAKER to Operation Plan # 1-53 MOVEMENT SCHEDULE (CONT'D)

MARCH SERIAL	ORGN & CMDR	FROM *	TO *	RATE (MPH)	TIME LENGTH (MIN)	TIME OF MOVEMENT	LOCATION CRITICAL POINTS	ARRIVAL	CLEAR	CLOSE
(4)	2d Bn (2) 3d Mar Major LIVESAY	C.G. #1	C.G. #2	25	3		See Appendix 2	H-279	H-286	
		C.G. #2	RJ 36	30	3			H-257	H-254	
		RJ 36	CP of AEC	30	3			H-238	H-235	
		CP of AEC	C.P. #3	25	3			H-234	H-231	
		C.P. #3	RJ 20	25	3			H-226	H-223	
		RJ 20	RJ 32	8	3			H-214	H-211	
		RJ 32	RJ 38	8	3			H-196	H-193	
		RJ 38	RJ 31	8	3			H-184	H-181	
		RJ 31	RJ 28	8	3			H-178	H-175	
		RJ 28	RJ 41	8	3			H-172	H-169	
		RJ 41	RJ 43	8	3			H-166	H-163	
		RJ 43	RJ 44	8	3			H-151	H-148	
		RJ 44	RJ 45	8	3			H-145		H-142
		RJ 45	Parking Area	8	3	H-135		H-105		H-102
		RJ 45	RJ 20	15	3	H/235		H/284	H/287	
		RJ 20	C.P. #3	25	3			H/292	H/295	

ENCLOSURE (6)

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Appendix 1 to Annex BAKER to Operation Plan # 1-53 MOVEMENT SCHEDULE (CONT'D)

MARCH SERIAL	ORGN & CMDR	FROM *	TO *	RATE (MPH)	TIME LENGTH (MIN)	TIME OF MOVEMENT	LOCATION CRITICAL POINTS	ARRIVAL	CLEAR	CLOSE
(3)	2d Bn (1) 3d Mar LtCol. PRICE	RJ 32	RJ 38	8	3		See Appendix 2	H-206	H-203	
		RJ 38	RJ 31	8	3			H-194	H-191	
		RJ 31	RJ 28	8	3			H-188	H-185	
		RJ 28	RJ 41	8	3			H-182	H-179	
		RJ 41	RJ 43	8	3			H-176	H-173	
		RJ 43	RJ 44	8	3			H-161	H-158	
		RJ 44	RJ 45	8	3			H-155		H-152
		RJ 45	Parking Area	8	3	H-145		H-115		H-112
		RJ 45	RJ 20	15	3	H/245		H/294	H/297	
		RJ 20	C.P. #3	25	3			H/302	H/305	
		C.P. #3	C.G. #2	30	3			H/346	H/349	
		C.G. #2	C.G. #1	25	3			H/351	H/354	
		C.G. #1	IP	25	3			H/356	H/359	
		IP	CDR	15	3			H/360	H/363	
(4)	2d Bn (2) 3d Mar Major LIVESAY	CDR	IP	15	3	H-293		H-289	H-286	
		IP	C.G. #1	25	3			H-284	H-281	

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Appendix 1 to Annex BAKER to Operation Plan # 1-53 MOVEMENT SCHEDULE (CONT'D)

MARCH SERIAL	ORGN & CMDR	FROM *	TO*	RATE (MPH)	TIME LENGTH (MIN)	TIME OF MOVEMENT	LOCATION CRITICAL POINTS	ARRIVAL	CLEAR	CLOSE
4	2d Bn (2) 3d Mar Major LIVESAY	C.P.#3	C.G.#2	30	3		See Appendix 2	H/336	H/339	
		C.G.#2	C.G.#1	25	3			H/341	H/344	
		C.G.#1	IP	25	3			H/346	H/349	
		IP	CDR	15	3			H/350		H/353
5	1st Bn (1) 8th Mar LtCol., HARRIS	CDR	IP	15	3	H-278		H-274	H-271	
		IP	C.G.#1	25	3			H-269	H-266	
		C.G.#1	C.G.#2	25	3			H-264	H-261	
		C.G.#2	RJ 36	30	3			H-242	H-239	
		RJ 36	CP of AEC	30	3			H-223	H-220	
		CP of AEC	C.P.#3	25	3			H-219	H-216	
		C.P.#3	RJ 20	25	3			H-211	H-208	
		RJ 20	RJ 32	8	3			H-199	H-196	
		RJ 32	RJ 38	8	3			H-181	H-178	
		RJ 38	RJ 31	8	3			H-169	H-166	
		RJ 31	RJ 28	8	3			H-163	H-160	
		RJ 28	RJ 41	8	3			H-157	H-154	

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APPENDIX 1 to Annex BAKER to Operation Plan # 1-53 MOVEMENT SCHEDULE (CONT'D)

MARCH SERIAL	ORGN & CMDR	FROM *	TO *	RATE (MPH)	TIME LENGTH (MIN)	TIME OF MOVEMENT	LOCATION CRITICAL POINTS	ARRIVAL	CLEAR	CLOSE
(5)	1st Bn (1) 8th Mar LtCol. HARRIS	RJ 41	RJ 43	8	3	H-278	See Appendix 2	H-151	H-148	
		RJ 43	RJ 44	8	3			H-136	H-133	
		RJ 44	RJ 45	8	3			H-130		H-127
		RJ 45	Parking Area	8	3	H-120		H-90		H-87
		RJ 45	RJ 20	15	3	H/225		H/274	H/277	
		RJ 20	C.P. #3	25	3			H/282	H/285	
		C.P. #3	C.G. #2	30	3			H/326	H/329	
		C.G. #2	C.G. #1	25	3			H/331	H/334	
		C.G. #1	IP	25	3			H/336	H/339	
		IP	CDR	15	3			H/340		H/343
(6)	1st Bn (2) 8th Mar Major DAVIS	CDR	IP	15	3	H-268		H-254	H-261	
		IP	C.G. #1	25	3			H-259	H-256	
		C.G. #1	C.G. #2	25	3			H-254	H-251	
		C.G. #2	RJ 36	30	3			H-232	H-229	
		RJ 36	CP of AEC	30	3			H-213	H-210	
		CP of AEC	C.P. #3	25	3			H-209	H-206	

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APPENDIX 1 to Annex BAKER to Operation Plan # 1-53 MOVEMENT SCHEDULE (CONT'D)

MARCH SERIAL	ORGN & CMDR	FROM *	TO *	RATE (MPH)	TIME LENGTH (MIN)	TIME OF MOVEMENT	LOCATION CRITICAL POINTS	ARRIVAL	CLEAR	CLOSE
(6)	1st Bn (2) 8th Mar Major DAVIS	C.P. #3	RJ 20	25	3	H-268	See Appendix 2	H-201	H-198	
		RJ 20	RJ 32	8	3			H-189	H-186	
		RJ 32	RJ 38	8	3			H-171	H-168	
		RJ 38	RJ 31	8	3			H-159	H-156	
		RJ 31	RJ 28	8	3			H-153	H-150	
		RJ 28	RJ 41	8	3			H-147	H-143	
		RJ 41	RJ 43	8	3			H-141	H-138	
		RJ 43	RJ 44	8	3			H-126	H-123	
		RJ 44	RJ 45	8	3			H-120		H-117
		RJ 45	Parking Area	8	3	H-110		H-80		H-77
		RJ 45	RJ 20	15	3	H/215		H/264	H/267	
		RJ 20	C.P. #3	25	3			H/272	H/275	
		C.P. #3	C.G. #2	30	3			H/316	H/319	
		C.G. #2	C.G. #1	25	3			H/321	H/324	
		C.G. #1	IP	25	3			H/326	H/329	
		IP	CDR	15	3			H/330		H/333

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ENCLOSURE (6)

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Appendix 1 to Annex BAKER to Operation Plan # 1-53 - - - - MOVEMENT SCHEDULE - - - (CONT'D) -

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK Jr.
Colonel, U. S. Marine Corps
Chief of Staff

LEGEND
C.G. - Control Gate
C.Pt. - Control Point
CDR - Camp Desert Rock

DISTRIBUTION:
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ENCLOSURE (6)

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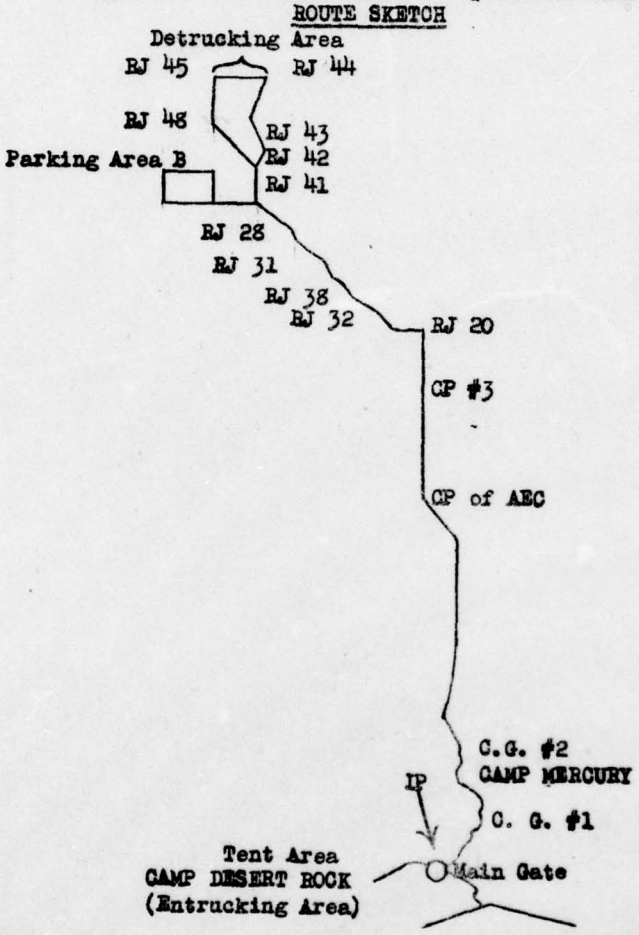
2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140800 April 1953

Appendix 2 to Annex BAKER to Operation Plan 1-53

ROUTE SKETCH



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BY COMMAND OF BRIGADIER GENERAL BROWN

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Colonel, U. S. Marine Corps
Chief of Staff

Appendix 2

ENCLOSURE (6)

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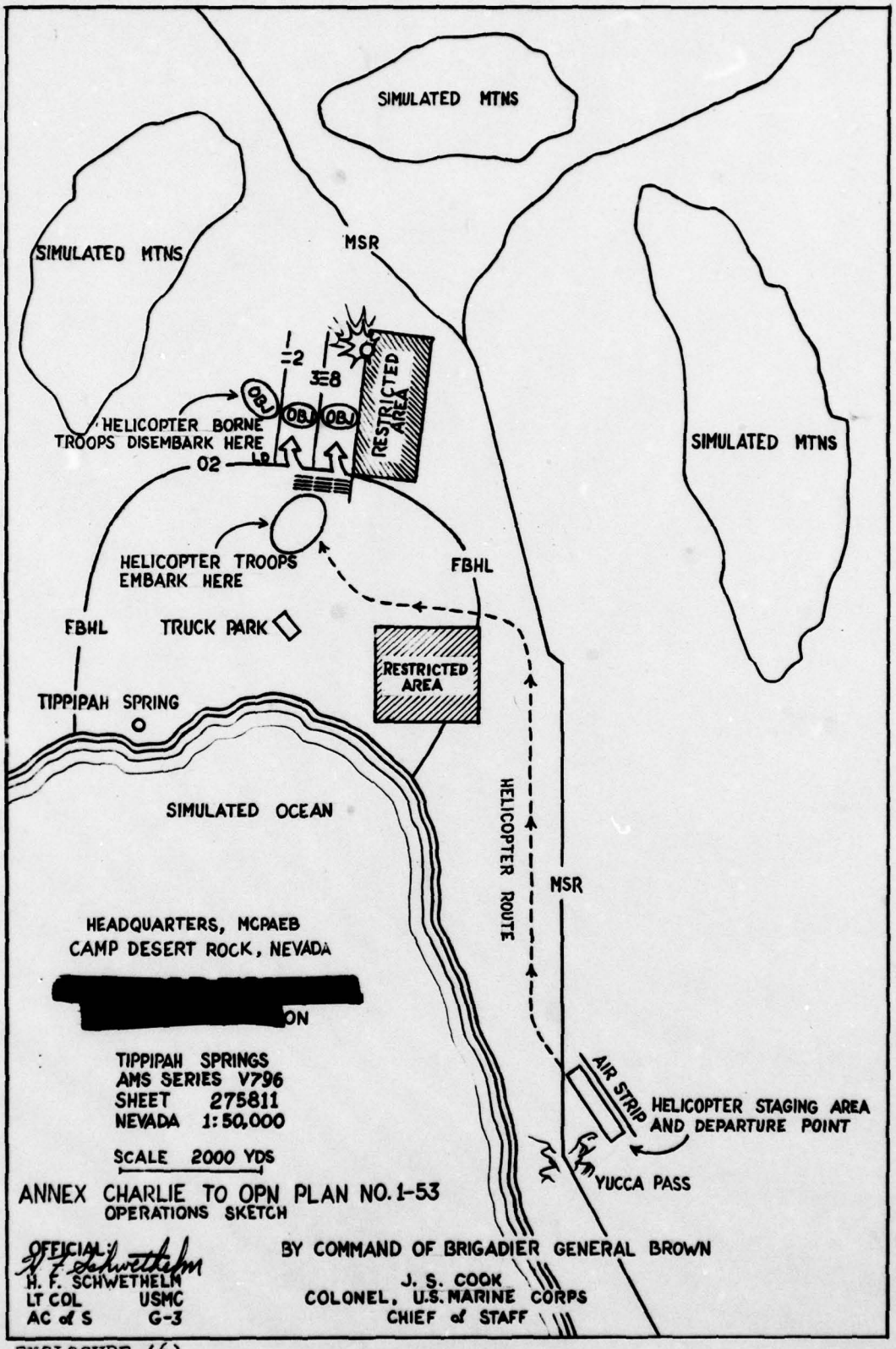

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2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140800 April 1953

Annex DOG to Operation Plan 1-53

HELICOPTER SUPPORT PLAN

MAPS: Nevada 1:50,000 (Restricted)
Sheets:

Tippipah Spring	2758 II	Papoose Lake	2858 III
Cane Spring	2757 I	Frenchman Lake	2857 IV
Specter Range	2757 II	Mercury	2857 III

1. GENERAL SITUATION - The Atomic Energy Commission Test Command will detonate a nuclear weapon on D-day at H-hour in conjunction with a Marine Air-Ground tactical assault on an objective vicinity Ground Zero.

a. None

b. Air Tactical Logistics Group from G-3 Section, Brigade Hdqs will exercise control of the embarkation of troops into helicopters at the Embarkation Point (Annex CHARLIE.)

2. a. MAG (HR) 16 (-), employing 39 HRS type helicopters will occupy Staging Area (Annex CHARLIE) 1700 D-1 and displace forward on order at H-3 to Embarkation Point (Annex CHARLIE), (to arrive at about H-13) embark Easy Co., 2d Bn., 3d Marines, and upon order of CG MCPAEB, when intensity reading is submitted by Radiation Monitor Survey Teams, effect an assault landing of troops on Objective (Annex CHARLIE) and return to Embarkation Point and from this point, upon completion of the exercise, and upon order of CG MCPAEB, return to base at Camp Desert Rock.

3. a. (1) HMR 162 dispatch two Pathfinder HRS on order CO MAG 16, at H-1, to Embarkation Point to embark Radiation Monitor Survey Teams and transport them to Objective and return to Embarkation Point (after the teams have surveyed the area) prepared to displace forward on order CO MAG 16 and execute mission assigned the Group in paragraph 2 above.

(2) HMR 162 displace forward on order CO MAG 16 and execute mission assigned the Group in paragraph 2 above.

b. HMR 163 displace forward on order CO MAG 16 and execute mission assigned the Group in paragraph 2 above.

c. HMR 361 displace forward on order CO MAG 16 and execute mission assigned the Group in paragraph 2 above.

d. (1) HMR 362 provide one HRS at Embarkation Point at H-40 to transport Major PALMER, PIO, with photographs to the baseball diamond at Camp Mercury and from there move to Air Strip, Camp Desert Rock.

(2) HMR 362 displace forward on order CO MAG 16 and execute mission assigned the Group in paragraph 2 above.

e. HMR 363 displace forward on order CO MAG 16 and execute mission assigned the Group in paragraph 2 above.

ENCLOSURE (6)

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Annex DOG to Operation Plan 1-53 AIRPLAN (CONT'D)

x. (1) All aircraft fly altitude not in excess of 400 ft.

(2) Land at Embarkation Point at one of six loading stations indicated by panels and as directed by Tactical Logistical Group.

4. a. Crews (3 personnel/aircraft) shall remain in aircraft overnight at Staging Area.

b. Lunches shall be provided aircraft crews sufficient to provide meals during stay in Staging Area.

5. a. Communication in accordance with existing SOI, Signal SOP and Annex HOW.

b. C.P. Helicopter Staging Area.

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK JR.
Colonel, U. S. Marine Corps
Chief of Staff

DISTRIBUTION:
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H. F. Schwethelm

H. F. SCHWETHELM
LtCol., USMC
ACofS, G-3
Annex DOG

ENCLOSURE (6)

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2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140800 April 1953

Annex EASY to Operation Plan 1-53

Radiological Safety

1. AEC Test Command will detonate a nuclear weapon D-day H-hour and permit a Marine Air-ground tactical assault on an objective in vicinity of ground zero for training and indoctrination purposes.

2. Radiological safety procedures will be followed to eliminate hazard and gather data relative to:

a. Decontamination

b. Control & issue of film badges

c. Collection of radiological data from contaminated areas

3. a. Film badge control.

(1) All personnel going to the forward area will be required to carry film badges. The MCPAEB Rad-Safe Officer will issue film badges in bulk to the Bn CO's, MAG-(HR)-16, and Hq Comdt.

(2) Issuance of film badges to all personnel will be effected prior to 1800 hours on D-day - 1. A complete record of personnel to whom film badges have been issued, and the number of the film badge issued to each, will be kept on report forms to be supplied by the MCPAEB Rad-Safe Section. Film badges will be listed in numerical order on the report form. It is important that these records be accurate and complete.

(3) Film badges will be collected prior to 1800 D-day or immediately upon return to Camp Desert Rock if return is later than 1800.

(4) Film badges with the appropriate records in duplicate will be turned in to the MCPAEB Rad-Safe Officer prior to 2000 on Shot Day.

b. Area monitoring.

(1) Upon forward displacement from the entrenching area, one (1) monitor equipped with an AN/PDR-T1B will precede each platoon, recording time, intensity, and location at predetermined check points. These records will be turned in to the MCPAEB Rad-Safe Section upon return to Camp Desert Rock.

(2) All reading will be taken with the instruments held at waist height.

(3) To avoid instrument contamination, instruments will not be placed on the ground from the time the contaminated area is entered until the instruments are again placed on trucks.

[redacted]

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c. Decontamination.

(1) Personnel Decontamination.

Stage 1: Before entrucking for the outward movement from display area, clothing, shoes, and individual equipment will be brushed with brooms in order to remove clinging radioactive dust particles. All participants will then be monitored by monitors equipped with AN/PDR-27C's. Those whose level of contamination cannot be reduced below 10 mr/hr will be ordered to the MCPAEB Rad-Safe Officer who will provide transportation to the forward decontamination station at YUCCA PASS; all others will be returned to Camp Desert Rock.

(a) Monitoring of personnel and equipment will be conducted holding the instrument probe approximately two (2) inches from the area which is to be monitored.

(b) The names and units of all personnel whose level of contamination cannot be reduced below 1.5 mr/hr in this stage will be recorded.

Stage 2: At the forward decontamination station all personnel whose level of contamination can not be reduced below 10 mr/hr in Stage 1 will take showers and draw clean utility clothing. The responsibility for this stage will rest with the MCPAEB Rad-Safe Officer.

Stage 3: At Camp Desert Rock all those who were not required to report to the forward decontamination station will take showers. Bn CO's and the Hq Comdt will be responsible for their respective units in this stage, and will insure that all personnel listed as having a contamination level greater than 1.5 mr/hr in Stage 1 are decontaminated to meet the following standards:

(a) Skin : Background
(b) Clothing : Less than 1.5 mr/hr

(2) Vehicle Decontamination

Stage 1: All vehicles will be monitored by monitors equipped with AN/PDR-27C's at display area prior to the outward movement. Vehicles whose level of contamination cannot be reduced below 10 mr/hr be sweeping will be sent to the vehicle decontamination station at YUCCA PASS.

Stage 2: Vehicles delivered to the vehicle decontamination station will be washed with water until the level of contamination is reduced to background. The MCPAEB Assistant Rad-Safe Officer will be responsible for this stage of the vehicle decontamination process.

Stage 3: Vehicles which exhibit a level of contamination below 10 mr/hr will be sent to Camp Desert Rock with Stage 3 personnel for further reduction to background.

[redacted] [redacted]

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[redacted]

Special Instructions

(1) Prior to H-hour, all personnel will place their film badges in their left breast pocket with the numbers on the badge facing outward from the body.

(2) Instructions for that period immediately prior to and following H-hour are as follows:

(a) All personnel will be crouched low in their foxholes two (2) minutes prior to H-hour This position will be maintained until after the shock wave passes.

(b) All personnel will carry gas masks. Gas masks will be donned upon announcement that CONDITION BLACK exists.

(3) Because of the danger of radioactive contamination, no objects in the vicinity of Ground Zero will be picked up or handled and souveniers will not be collected.

4. Radiation Measuring Devices

a. AN/PDR-27C instruments.

(1) One (1) per platoon in Bns.

(2) Four (4) for HQ Co.

b. AN/PDR-T1B instruments.

(1) One (1) per platoon in Bns.

(2) Four (4) for HQ Co.

(3) Four (4) for MAG-(HR)-16.

c. Dosimeters will be issued to selected personnel.

d. Brooms and clean utility clothing will be provided by MCRA EB.

BY COMMAND OF BRIGADIER GENERAL BROWN

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Colonel, U. S. Marine Corps
Chief of Staff

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ANNEX EASY

ENCLOSURE (6) [redacted]

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2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140800 April 1953

Annex FOX to Operation Plan 1-53

Emergency Evacuation Plan -"Condition Black"

1. General - This annex outlines the emergency procedure to be followed to accomplish the total evacuation of the forward area during Exercise Desert Rock V. The Exercise Director, through the CG 2dMCPAEB, will direct the implementation of this plan.

2. All units will be prepared to execute a total evacuation of the forward area at any time during D-day.

a. The direction of evacuation will be to the south to a designated place of safety in the following order:

(1) Parking Area B (848925)
(2) Control Gate # 2 (893569)
(3) Camp Desert Rock Motor Pool (875539)

b. BLT Commanders will be responsible for the movement of their vehicles during the evacuation and for maintaining the proper march unit order of vehicles under their command.

3. a. The following procedure will be followed for troops in the entrenchment area:

(1) BLT Commanders will immediately assemble their personnel behind their respective trenches and move to entrucking area behind the trenches. The 2d Bn; 3d Marines will be on the left flank and their motorized equipment will follow directly behind the observer and VIP equipment. The 1st Bn; 8th Marines will be on the right flank and their motorized equipment will follow directly behind the 2d Bn; 3d Marines vehicles.

(2) 2d MCPAEB Headquarters will immediately assemble behind it's control trench and move to loading area and embark in respective vehicles upon orders of Control Group Commander.

(3) Vehicles will be dispatched from Parking Area in march unit order to the entrucking area. (Appendix # 1 and 3)

b. The following procedure will be bollowed by troops deployed in ATTACK:

(1) Units will move to the west (left) flank and assemble facing west on the road with 1st Bn; 8th Marines on the right of 2d Bn; 3d Marines.

(2) Commanders will immediately check for missing personnel.

(3) Trucks transporting these units will be immediately dispatched north in a clockwese direction. (Appendix # 2 and # 3)

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(4) Trucks will be halted when they arrive in front of their respective units and the troops will embark.

(5) Trucks will then move to the designated place of safety. (Note: Rad-Safe Monitors of Camp Desert Rock Control Group will traverse the area evacuated by the troops to ensure no troops remain therein. They will then proceed as ordered by the Camp Desert Rock Control Group Commander).

c. The following procedure will be followed by troops in DISPLAY AREA:

(1) BLT Commanders will move their units to the nearest 500 yard crossroad, upon receipt of order from Camp Desert Rock Control Group Commander. The location of the BLT will be relayed via radio to Officer at Camp Desert Rock Control Point CP. This officer will in turn call control point RJ 47 and have vehicles of the BLT dispatched immediately. Vehicles will remain in march unit order throughout the operation.

(2) The column will move under the direction of the march unit commander to the designated place of safety. (Note: There will be no set time interval between march units).

d. The 2d MCPAEB and Camp Desert Rock Control Group will evacuate the test area on order of the Exercise Director when it is assumed that all other groups have been evacuated.

e. The Exercise Director will have a check made of the vehicles at the designated rendezvous area.

x. (1) Maximum vehicle speed will be 35 miles per hour.

(2) Vehicle march units will remain intact during all movements.

(3) Command, MP and Medical units will have road priority during the movement.

(4) The decontamination team of the 50th Chemical Service Platoon will move mobile and portable decontamination equipment to the designated place of safety to perform such decontamination as directed.

(5) Decontamination of personnel will be carried out on order.

(6) Upon receipt of "CONDITION BLACK" BLT Commanders will order all personnel to put on gas masks and wear them until ordered to remove them by the Exercise Director.

(7) Windows in vehicles will be closed where practical.

(8) Individuals will not eat or smoke during evacuation.

4. Medical Evacuation

a. Aid station in Parking Area B (755031) will cease operations upon the evacuation of all personnel from the forward area and join the Camp Desert Rock Control Group March Unit.

b. Casualties will be evacuated to the Medical Detachment at Camp Desert Rock.

c. Route of evacuation will be the most direct route available.

5. a. Emergency Signal: Continuous blowing of siren.

b. Code Designation: Condition Black

c. "CONDITION BLACK" will be transmitted by most readily available means and authenticated by 2d MCPAEB Rad-Safe Officer.

d. "CONDITION BLACK" will be transmitted to the BLT Commanders leading the troop columns via radio. When "CONDITION BLACK" is received by BLT Commanders, this information will be transmitted immediately to the troops.

e. Forward CP will move from entrenchment area upon receipt of "CONDITION BLACK". New location to be announced at time of movement.

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Chief of Staff

APPENDICES:
1. Movement Plan from Entrenchment Area
2. Movement Plan from Attack and Display Area
3. Movement Plan if Parking Area is not useable

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ANNEX FOX

Enclosure (6)

[redacted]

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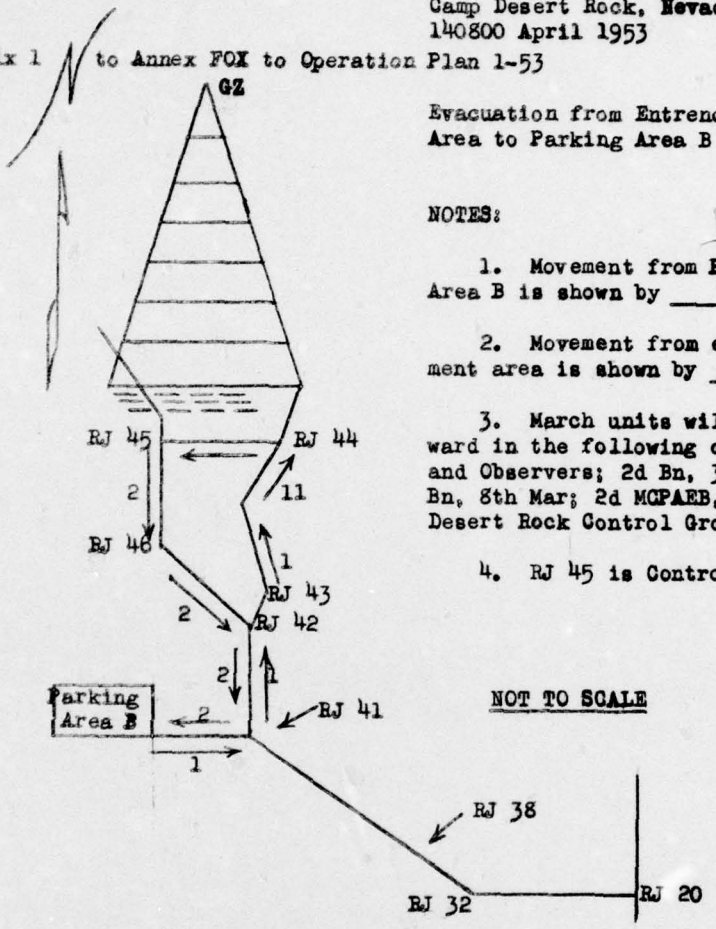
2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140800 April 1953

Appendix 1 to Annex FOX to Operation Plan 1-53

Evacuation from Entrenchment Area to Parking Area B



NOTES:

1. Movement from Parking Area B is shown by 1.

2. Movement from entrenchment area is shown by 2.

3. March units will move forward in the following order: VIP's and Observers; 2d Bn, 3d Mar; 1st Bn, 8th Mar; 2d MCPAEB, and Camp Desert Rock Control Group.

4. RJ 45 is Control Point.

NOT TO SCALE

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2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140800 April 1953

Appendix 2 to Annex FOX to Operation Plan 1-53

Evacuation from Test Area to Parking Area B.

NOTES:

1. Movement from parking area is shown by 1.

2. Movement from test area is shown by 2.

3. March units will move forward as outlined in Note No. 3, Appendix 1.

4. RJ 45 is Control Point.

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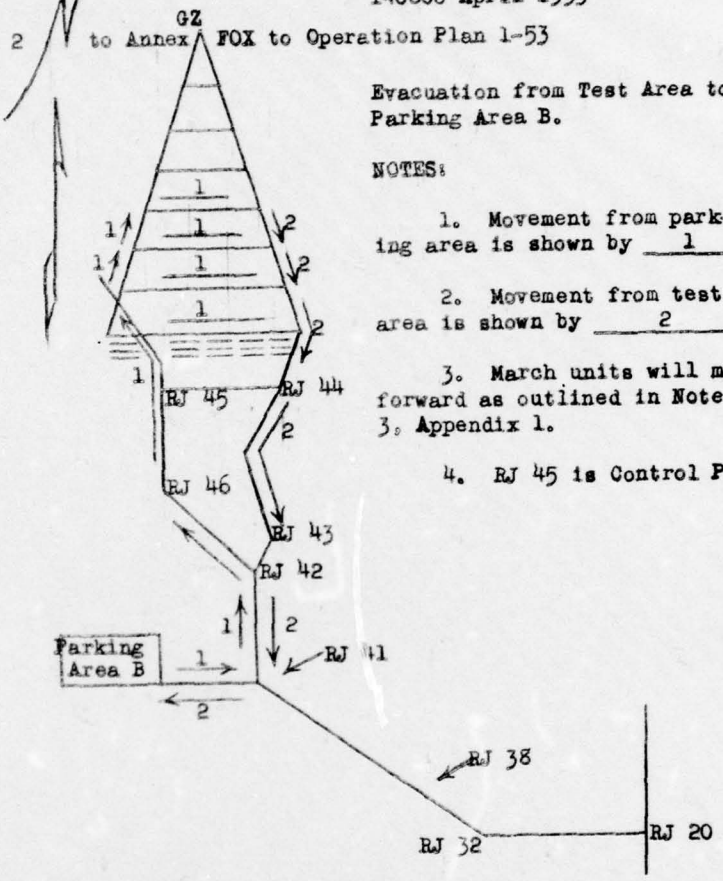

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Appendix 2.

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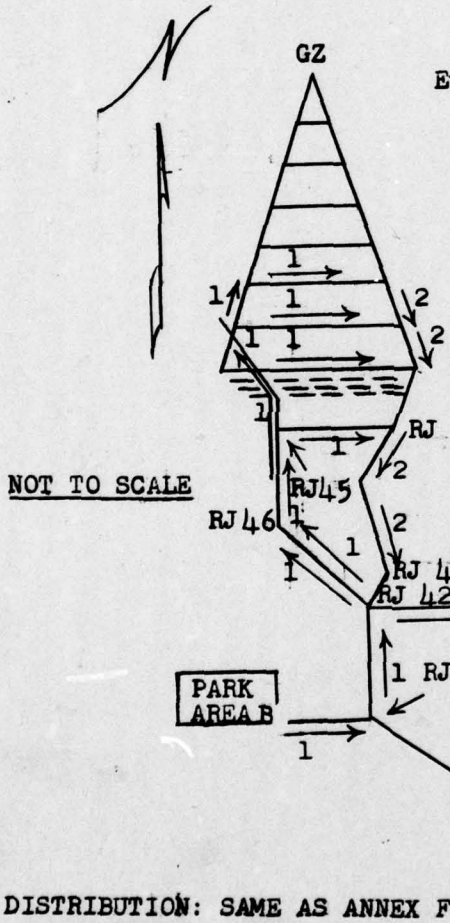
2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140800 April 1953

Appendix 3 to ANNEX FOX to OPERATION PLAN 1-53



NOT TO SCALE

Evacuation from Test Area and/or Entrenchment Area to CDR and/or Control Gate #2

NOTES:

1. Movement from Parking Area B to entrenchment area and/or display area shown by 1 Routes in display area indicated.

2. Movement from entrenchment area and/or display area shown by 2 .

3. March units will move forward as outlined in Note No. 3, Appendix 1.

4. RJ 45 is control Point.

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2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140800, April 1953

Annex GEORGE to Operation Plan 1-53

EQUIPMENT DEMONSTRATION

1. Military equipment and ordnance will be pre-positioned at selected distances from Ground Zero for the purpose of demonstrating the effects of an atomic explosion thereon. These demonstration positions will be prepared by this headquarters prior to Dog-day.

2. For equipment to be displayed and general arrangement, see Appendix 1.

3. Following the test shot, personnel will be briefed at each position on the effects of the explosion.

BY COMMAND OF BRIGADIER GENERAL BROWN

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APPENDIX: 1. Diagram of Demonstration Positions

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ANNEX GEORGE

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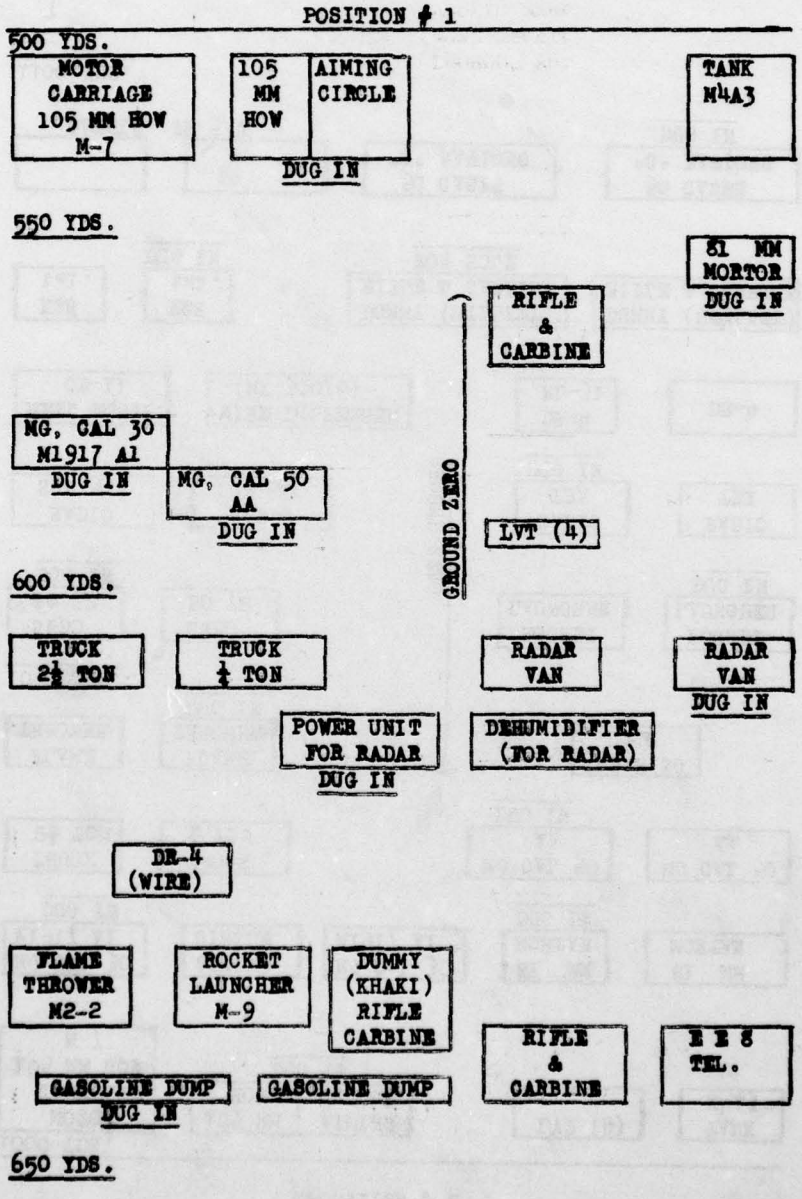
2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140800, April 1953

Appendix 1 to Annex GEORGE to Operation Plan 1-53

DIAGRAM OF DEMONSTRATION POSITIONS



ENCLOSURE (6)

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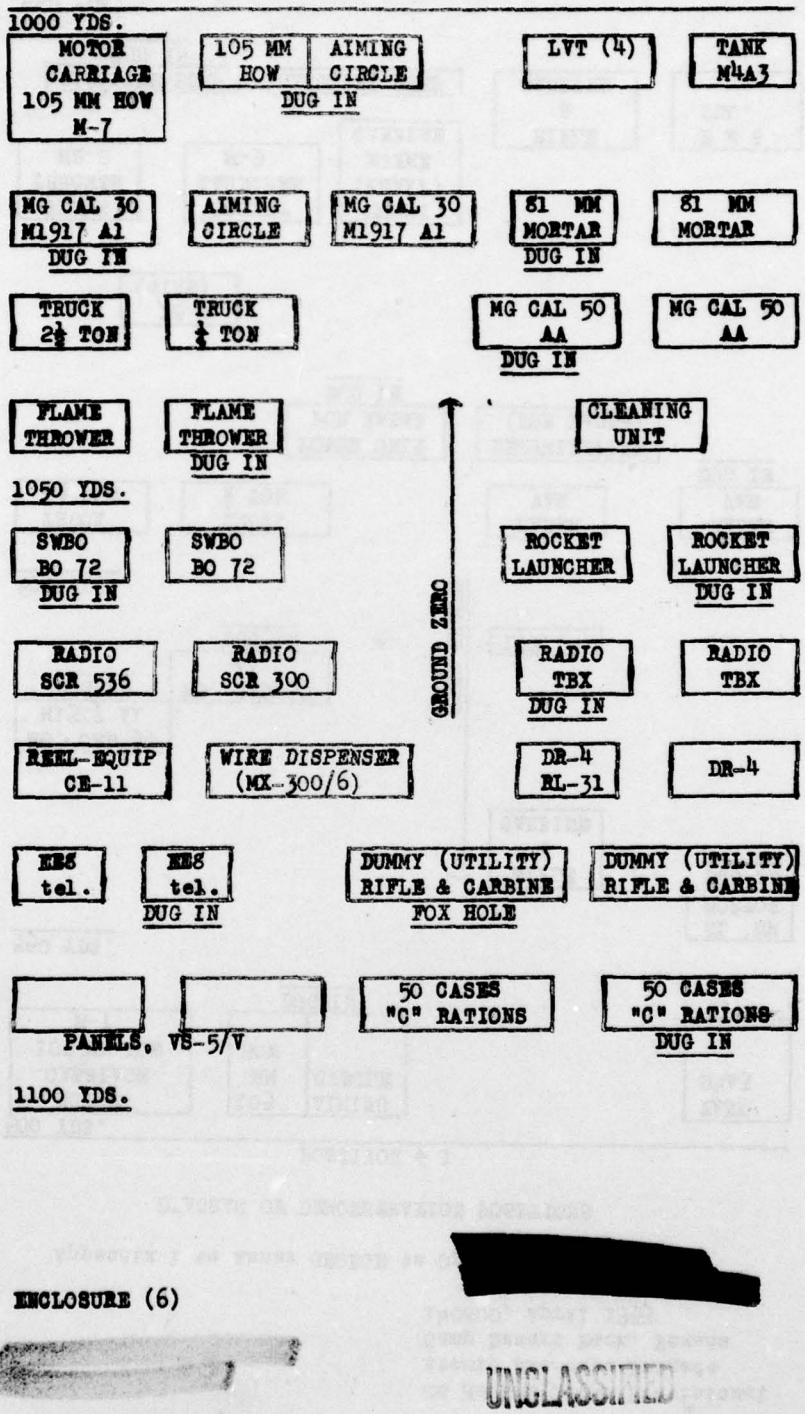
POSITION # 2



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ENCLOSURE (6)

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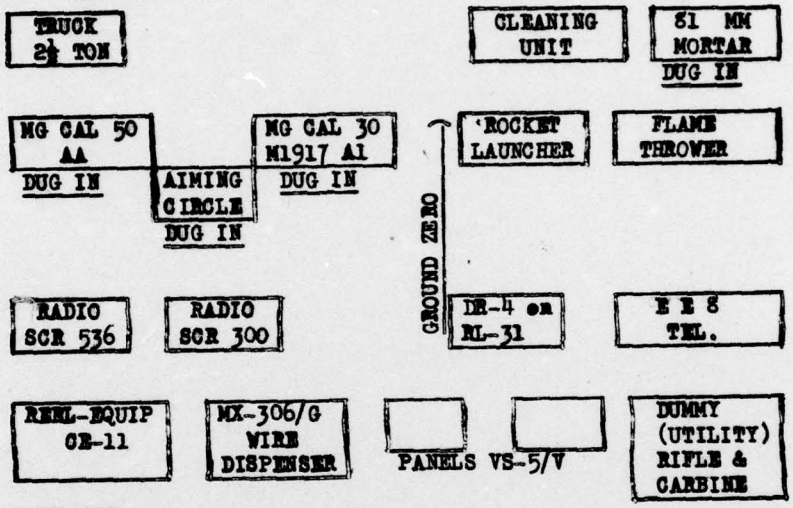
[redacted] POSITION # 3

1100 YDS.



1730 YDS.

NOTE:

(1) Special Dummy Position No. 1 will be 1675 yds. from ground zero consisting of two standing manikans, one clad in utilities and helmet and one clad in cold weather uniform with supplementary items. There will also be a third dummy, home made type, in prone position clad in utilities, helmet, armored vest and torso armor.

(2) Special Dummy Position No. 2 will be 2600 yds from ground zero and will be duplicate of above, except that dummy No. 3 will be clad in khaki in lieu of utilities.

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2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140800 April 1953

ANNEX HOW TO OPERATION PLAN 1-53

SIGNAL COMMUNICATION

MAPS: Scale - 1:50,000

Tippipah Spring	2758 II
Cane Spring	2757 I
Spector Range	2757 II
Papoose Lake	2858 III
Frenchman Lake	2857 IV
Mercury	2857 III

[redacted]

1. a. None

b. Camp Desert Rock furnishes wire and sound communication and Message Center (COMCENTER) facilities; See Appendix 2, 3 (Wire circuit diagram) and 4 (sound communication).

2. Signal Troops of this command install and operate communication facilities required by this brigade for control.

3. a. Radio

(1) AN/PRC-10 Nets: FOUR(4) (Appendix 1)

(a) 2d MCPAEB Tac, NC (CO 1/8, CO 2/3, BrigChem Rad)
(b) 1st Bn, 8th MarTac, NC (CO "A" Co, CO "B" Co, CO "C" Co)
(c) 2d Bn, 3d MarTac, NC (CO "D" Co, CO "E" Co, CO "F" Co)
(d) BrigChemRad (1/8 ChemRad, 2/3 ChemRad)

(2) AN/PRC-6 Nets: SIX (6) (Appendix 1)

(a) "A" Co Tactical (All platoons)
(b) "B" Co Tactical (All platoons)
(c) "C" Co Tactical (All platoons)
(d) "D" Co Tactical (All platoons)
(e) "E" Co Tactical (All platoons)
(f) "F" Co Tactical (All platoons)

(3) AN/MRC-6 Net: ONE (1) (Appendix 1)

(a) Hq 2d MCPAEB PIO, NC (1/8 PIO, 2/3 PIO)

(4) AN/MRC-19B (VHF) Net ONE (1) (Appendix 1)

(a) AEC CONTROL
(b) 2d MCPAEB TACP
(c) MAG 16 (HMR 162, HMR 163, HMR 361, HMR 362, HMR 363)

[redacted]

b. Wire

(1) Use existing wire (Appendix 2 and 3)

ENCLOSURE (6)

[redacted]

(2) Additional wire communications (between helicopter staging area and AEC Control Point: Between Hq 2d MCPAEB CP and TACP AN/MRC-19B) if needed for the proper accomplishment of the mission will be coordinated through the Signal Office, Camp Desert Rock.

(3) Two (2) local lines with telephones to each Battalion Command Post.

(4) Telephone directory (See Appendix 5)

c. Sound

(1) Public address systems will be installed and maintained Camp Desert Rock. The system will be controlled from the Exercise Director's CP. (Appendix 4)

(a) Mobile Public Address Systems will move into equipment display areas when cleared by RAD Safe Officers.

(b) Public Address line from Mercury forward CP will be coupled in multiple with Camp Desert Rock Public Address System.

x. (1) Radio silence will be strictly observed from H-30 minutes to H-hour.

(2) Cease transmissions on any radio net when any station not listed in Appendix 1 is received. Report to this Headquarters call sign and frequency used by unidentified station.

(3) Maintain strict circuit discipline.

4. Supply and Maintenance

a. Signal supply and Maintenance located at Camp Desert Rock.

b. Signal Maintenance, Camp Desert Rock will service all wire, radio and radiac equipment.

5. Use Local (UNCLE) Time.

[redacted]

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BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK Jr.
Colonel, U. S. Marine Corps
Chief of Staff

APPENDICES:

1. Radio Circuits, Call Signs, Frequencies
1A. Radio Circuit Diagram
2. Wire Circuit Diagram
3. Wire Circuit Diagram (Troop Area)
4. Troop Unit Public Address System
5. Telephone Directory

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ANNEX HOW

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2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Pendleton, California
140800 April 1953

Appendix 1 to Annex HOW to Operation Plan 1-53

RADIO FREQUENCY PLAN, INCLUDING CALL SIGNS

NET	BRIGADE TACTICAL	2/3 TACTICAL	"D" Co TACTICAL	"E" Co TACTICAL	"F" Co TACTICAL	1/8 TACTICAL	"A" Co TACTICAL	"B" Co TACTICAL	"C" Co TACTICAL	PIO NET	HELICOPTER TACTICAL	CHEM-RAD TACTICAL	SPARE	
FREQUENCY	46.3	50.2	50.2	50.2	50.2	52.4	52.4	52.4	52.4	2304 2436	140.2 143.1	53.6	53.6	
SET / UNIT	AN/PRC 10	AN/PRC 10	AN/PRC 6	AN/PRC 6	AN/PRC 6	AN/PRC 10	AN/PRC 6	AN/PRC 6	AN/PRC 6	AN/MRC 6-TCS	AN/MRC 19	AN/PRC 10	AN/PRC 6	CALL SIGNS
II MCPAEB	C										C			HOURGLASS
2/3	X	C												SQUIRE
"D" COMPANY		X	C											SQUIRE DOG
ALL PLATOONS			X											SQUIRE DOG 1,2, & 3
"E" COMPANY		X		C										SQUIRE EASY
ALL PLATOONS				X										SQUIRE EASY 1,2, & 3
"F" COMPANY		X			C									SQUIRE FOX
ALL PLATOONS					X									SQUIRE FOX 1,2, & 3
1/8	X					C								FLEXIBLE
"A" COMPANY						X	C							FLEXIBLE ABLE
ALL PLATOONS							X							FLEXIBLE ABLE 1,2,&3
"B" COMPANY						X		C						FLEXIBLE BAKER
ALL PLATOONS								X						FLEXIBLE BAKER 1,2,&3
"C" COMPANY						X			C					FLEXIBLE CHARLIE
ALL PLATOONS									X					FLEXIBLE CHARLIE 1,2&3
BRIGADE PIO										C				HOURGLASS FOUR ONE
2/3 PIO										X				SQUIRE FOUR ONE
1/8 PIO										X				FLEXIBLE FOUR ONE
MAG 16 HELICOPTER											X			EVERGOLD
HMR 162											X			CLASP
HMR 163											X			CLEAT
HMR 361											X			TARBUSH
HMR 362											X			CLIFFBUSH
HMR 363											X			DAYGLOW
BRIG CHEM RAD	X											X		HOURGLASS TWO THREE
CHEM RAD 2/3	X											X		SQUIRE TWO THREE
CHEM RAD 1/8	X											X		FLEXIBLE TWO THREE

[redacted] Control

O - Be prepared to Guard

ENCLOSURE (6)

[redacted]

[redacted] DATA ATOMIC

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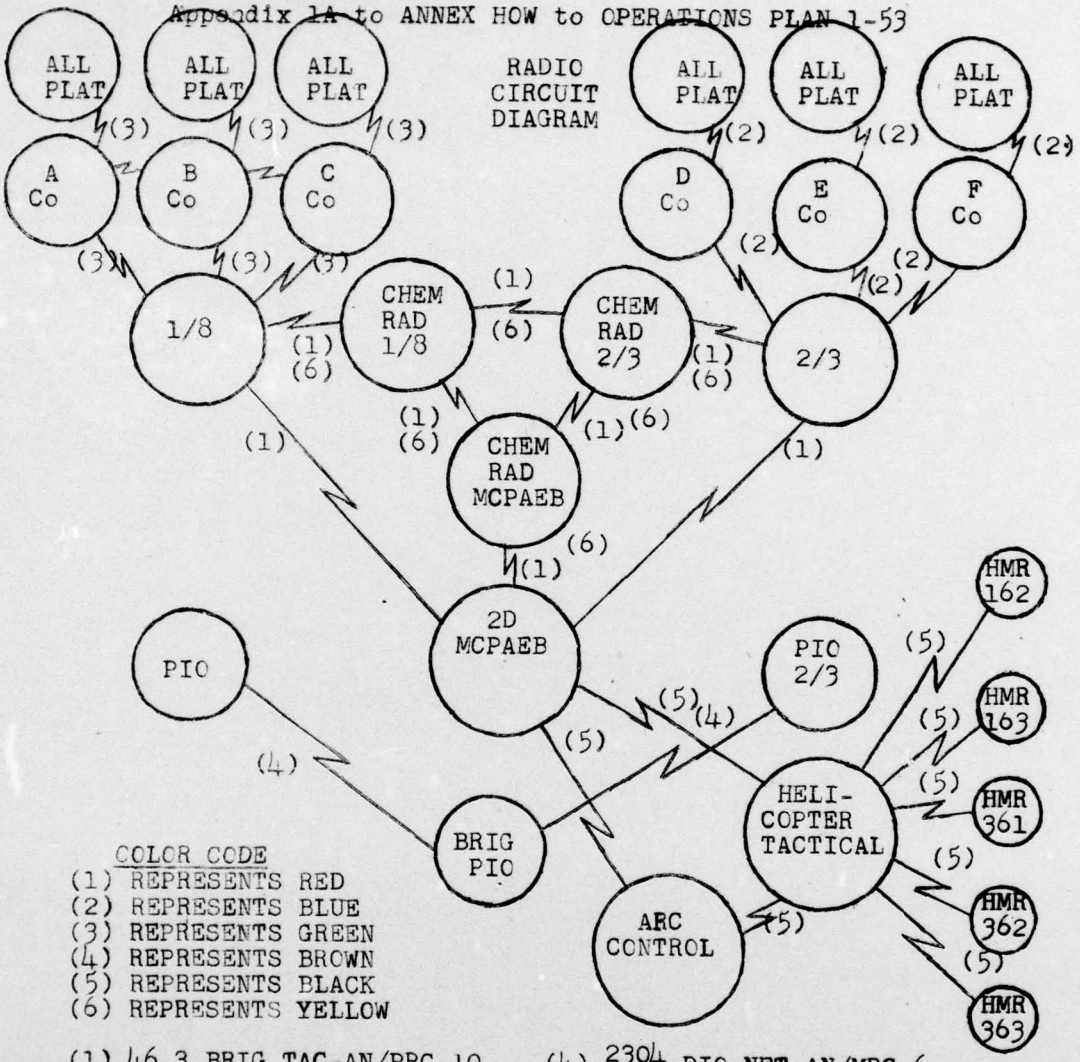
2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140800 April 1953

Appendix 1A to ANNEX HOW to OPERATIONS PLAN 1-53

RADIO CIRCUIT DIAGRAM



COLOR CODE
(1) REPRESENTS RED
(2) REPRESENTS BLUE
(3) REPRESENTS GREEN
(4) REPRESENTS BROWN
(5) REPRESENTS BLACK
(6) REPRESENTS YELLOW

(1) 46.3 BRIG TAC-AN/PRC 10
(2) 50.2 2/3 TAC-AN/PRC-10-6
(3) 52.4 1/8 TAC-AN/PRC-10-6
(4) 2304/2436 PIO NET-AN/MRC-6
(5) 140.22/143.1 HELICOPTER TAC-AN/MRC-19
(6) 53.6 CHEM RAD TAC AN/PRC 10

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Appendix 1A

ENCLOSURE (6)

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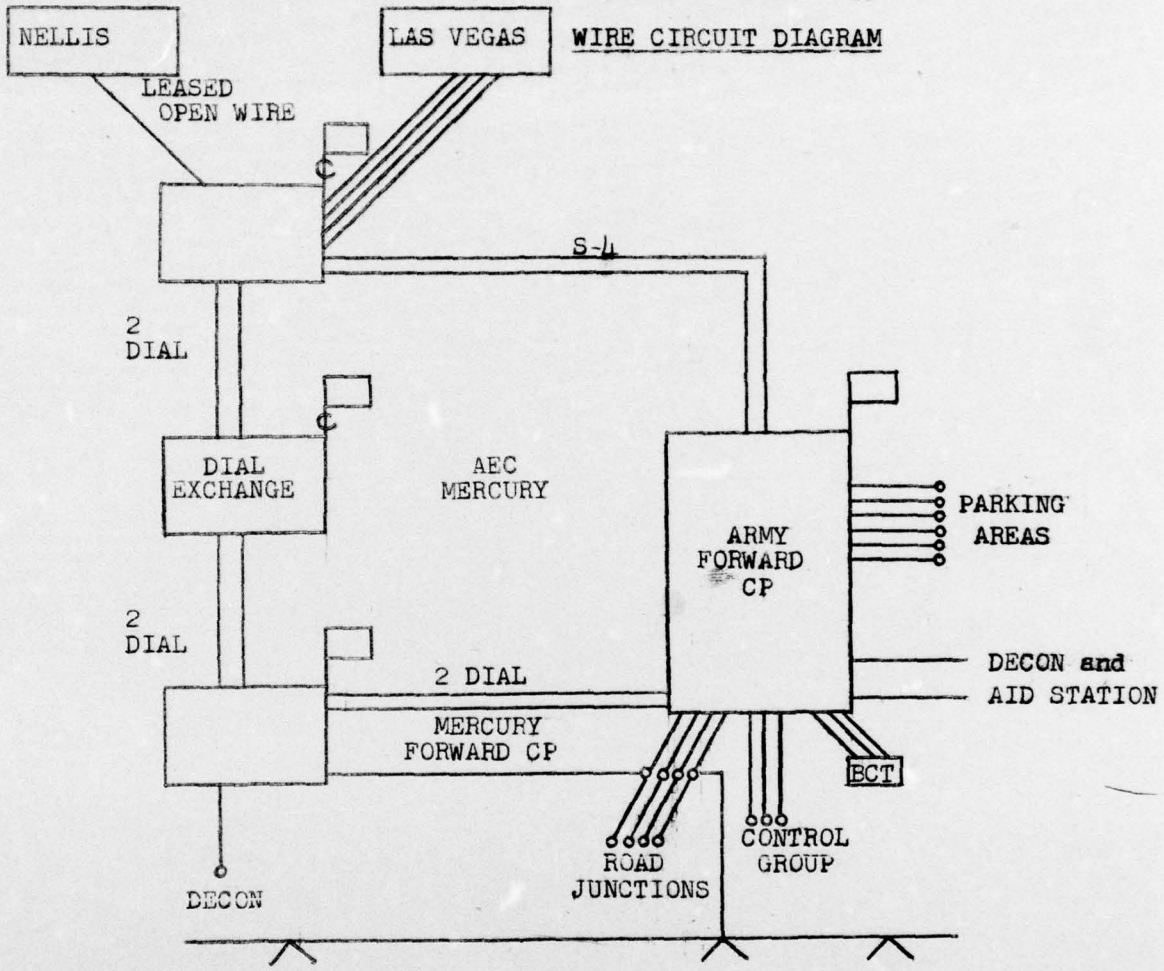
2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
1400 April 1953

Appendix 2 to ANNEX HOW to OPERATION PLAN 1-53



DESERT ROCK V PUBLIC ADDRESS SYSTEM

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Appendix 2

ENCLOSURE (6)

[redacted]

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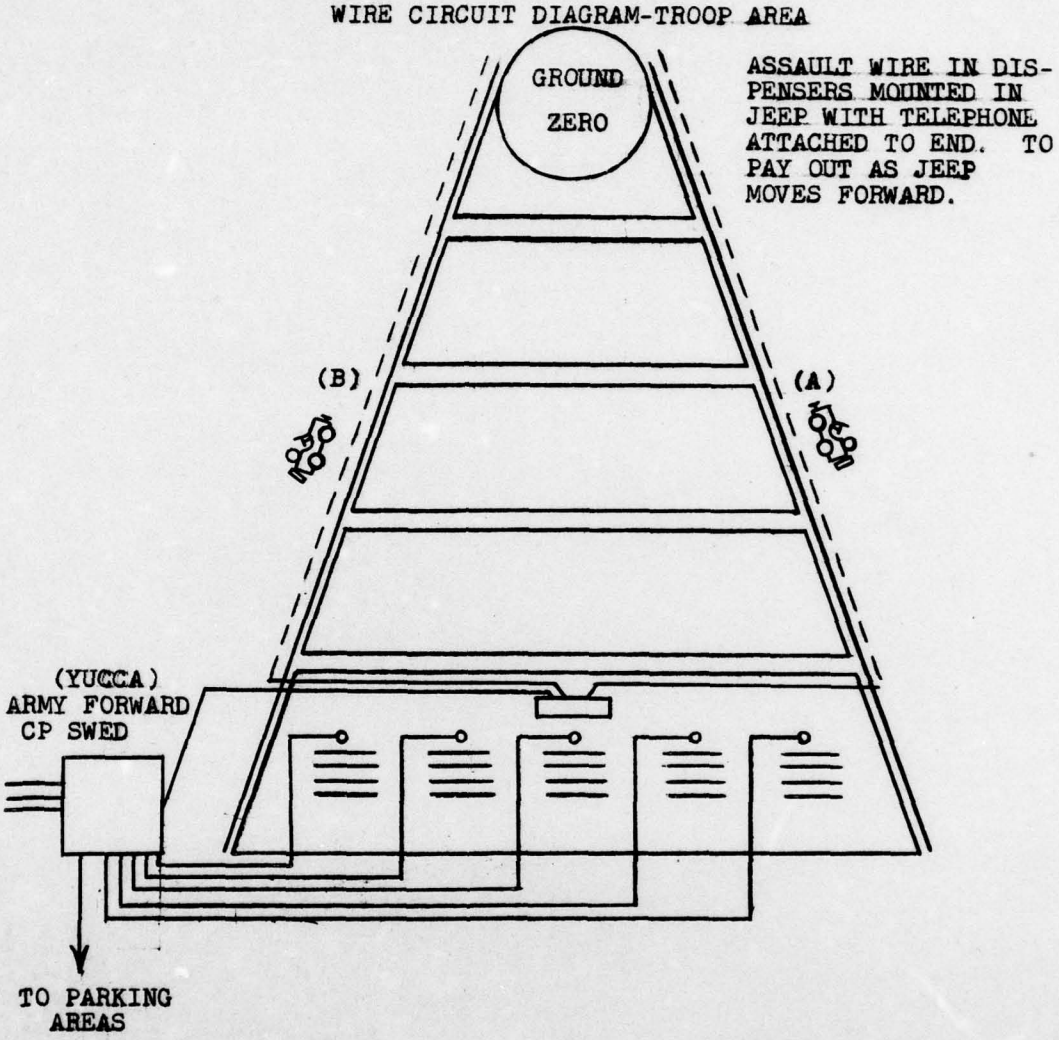
2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140800 April 1953

Appendix 3 to Annex HOW to OPERATION PLAN 1-53

WIRE CIRCUIT DIAGRAM-TROOP AREA



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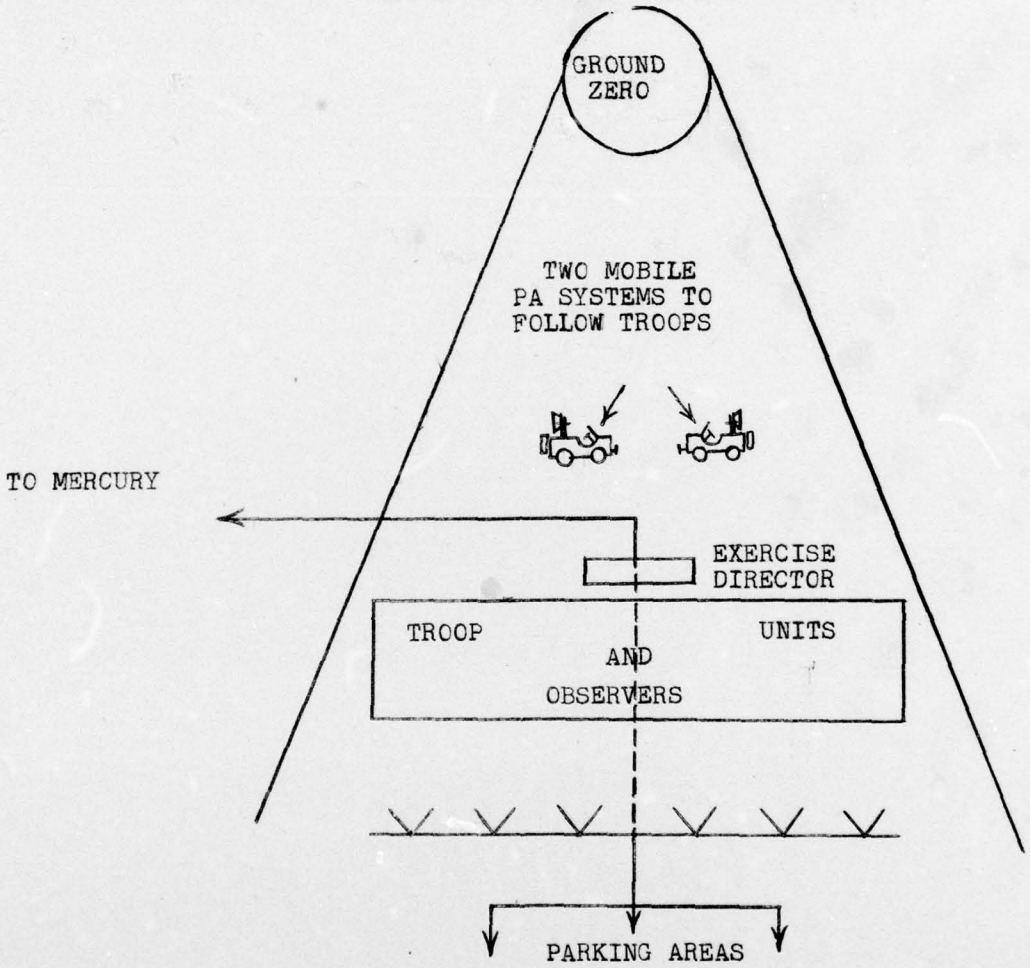
Atomic Exercise Brigade
Camp Desert Rock, Nevada
140800 April 1953

Appendix 4 to Annex HOW to OPERATION PLAN 1-53

TROOP UNIT PUBLIC ADDRESS SYSTEM



BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COCK JR.
Colonel, U. S. Marine Corps
Chief of Staff

DISTRIBUTION:

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H. F. SCHWETHELM
LtCol., USMC
ACofS, G-3
Appendix 4 [redacted]

ENCLOSURE (6) [redacted]

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[redacted]

2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Pendleton, California
140800 April 1953

Appendix 5 to Annex HOW to Operation Plan 1-53

TELEPHONE DIRECTORY

1. All units within the 2d Marine Corps Atomic Exercise Brigade will use their assigned radio voice calls to designate their switching centrals (See Appendix 1 for Call Signs).

NUMBER	TITLE
1	G-1 or S-1 PERSONNEL
2	G-2 or S-2 INTELLIGENCE
3	G-3 or S-3 OPERATIONS AND TRAINING
4	G-4 or S-4 LOGISTICS
5	CHIEF OF STAFF or EXECUTIVE OFFICER
6	COMMANDING GENERAL or COMMANDING OFFICER
7	ADJUTANT
8	ORDNANCE OFFICER
10	SIGNAL OFFICER or COMMUNICATION OFFICER
11	MESSAGE CENTER
13	AIDE
14	AIR OFFICER
15	ENGINEER OFFICER
16	SURGEON or MEDICAL OFFICER
21	SUPPLY OFFICER
23	CHEMICAL WARFARE OFFICER
24	LIAISON OFFICER
26	NAVAL GUNFIRE LIAISON OFFICER
27	PROVOST MARSHAL
34	HEADQUARTERS COMMANDANT
35	MOTOR TRANSPORT OFFICER
39	EMBARKATION OFFICER
41	PUBLIC INFORMATION OFFICER

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Appendix 5

ENCLOSURE (6)

[redacted]

[redacted]

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AD-A078 567 EXERCISE DESERT ROCK LAS VEGAS NV F/G 18/3
EXERCISE DESERT ROCK V. MARINE CORPS REPORT.(U)
MAY 53

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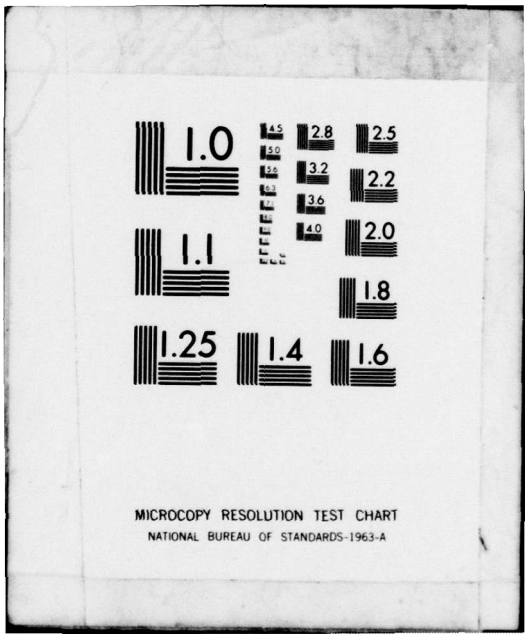
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[redacted] UNCLASSIFIED

[redacted]ION

2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
0800U, 17 April [redacted]53

MOVEMENT PLAN)
: Desert Rock V, Marine Corps
NUMBER...2-53)

1. ORGANIZATION FOR MOVEMENT

a. General movement of personnel: (Annex ABLE)

b. Convoy: (Annex BAKER)

c. Airlift: (Annex CHARLIE)

2. SUPPLIES AND EQUIPMENT TO BE TRANSPORTED

a. Amount and type: (Annex ABLE to Adm Plan 2-53)

b. Preparation:

(1) To be boxed or crated

(2) All equipment and supplies to be airlifted shall be marked "AIRLIFT" in a conspicuous place with the weight and cube in lower left corner on top and sides of box. Vehicles to be air transported will have weight and cube marked in chalk on the hood

(3) Vehicles: As directed by the Motor Transport Officer.

c. Movement of supplies and equipment to cargo assembly areas:

(1) All cargo will be preloaded in vehicles

(2) Convoy vehicles: (Annex BAKER)

(3) Airlift vehicles: (Annex BAKER)

3. ASSEMBLY POINTS (Cargo and Vehicles)

a. Convoy: (Annex BAKER)

b. Airlift: (Annex CHARLIE)

4. CONTROL

a. Convoy: Motor Transport Officer

b. Airlift personnel and airlift vehicles: to be designated by Headquarters Commandant

c. Communications: Normal

5. MOVEMENT OF PERSONNEL

a. General: (Annex ABLE)

(1) Convoy: (Annex BAKER)

[redacted]

[redacted] UNCLASSIFIED

[redacted]

MOVEMENT PLAN NUMBER 2-53 (CONT'D)

(2) Airlift: (Annex CHARLIE)

6. MISCELLANEOUS

a. Responsibilities and tasks:

(1) Convoy:

(a) Loading, assembly and movement: Motor Transport Officer

(2) Airlift:

(a) Preparation: Headquarters Commandant coordinate with Embarkation Officer

(b) Embarkation: Plane Team Commander

(c) Stowage: Plane Commander (Pilot) assisted by plane team

(d) Conduct aboard: Plane Team Commander

(e) Debarkation: Plane Team Commander

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK JR.
Colonel, USMC
Chief of Staff

ANNEXES:
ABLE: General Movement of Personnel
BAKER: Vehicle Movement Schedule
CHARLIE: Airlift Movement Schedule

DISTRIBUTION:

CG, Camp Desert Rock	1
Hq 2d MCPAEB	10
BLT 2/3	10
BLT 1/8	10
MAG(HR)16	10
MAG 25	10

O F F I C I A L

JOSEPH T. SMITH JR.
Major, USMC
ACofS, G-4

[redacted]

[redacted]

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2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
0800U, 17 April 1953

Annex ABLE to MOVEMENT PLAN 2-53
GENERAL MOVEMENT OF PERSONNEL

TIME	FLIGHT GROUP	TRUCKS REPORT	DEPART CDR	ETA IND SPRINGS	ETA BARSTOW	DEPART INDSPGS	VIA	DEPART BARSTOW	ETA GPEN	DATE	ETA EL TORO	DATE	PERSONNEL AND CARGO
Shot Day	RLT 2/3	***1430U	1500U	1545U		1600U	VMR 253				1700U	19Apr	504 pax
Shot plus 1	RLT 1/8	****0630U	0700U	0745U		0800U	MAG-35 (ETA Cherry Point 2200U, 19 Apr 53)						891 pax
Shot plus 1	MAG 16		0500U				MRS				1100U	19Apr	142 pax
Shot plus 1	RLT 2/3	***1000U	1030U	1115U		1130U	VMR 253				1230U	19Apr	396 pax, 4veh.
Shot plus 1	MAG 16	**1400U	1430U	1515U		1530U	VMR 253				1630U	19Apr	112 pax
Shot plus 1	2d MCPAEB	**1400U	1430U	1515U		1530U	VMR 253				1630U	19Apr	42 pax
Shot plus 2	*Convoy BAKER	**0500U	0600U		*1300U		Highway 0630U		1300U	21Apr			64 pax
Shot plus 2	Convoy CHARLIE	**0500U	0600U		*1300U		Highway 0600U		1530U	21Apr			13 pax, 6veh
Shot plus 2	2d MCPAEB	**1130U	1200U	1245U		1300U	AirFMFPac		1400U	20Apr			45 pax

* Convoy BAKER & CHARLIE remain over night BARSTOW 20 April 1953
** Trucks report to 5th St.
*** Trucks report to 5th St.
**** Trucks report to 6th St.

DISTRIBUTION:

CG, Camp Desert Rock	1
Hq, 2d MCPAEB	10
RLT 2/3	10
RLT 1/8	10
MAG 16	10
MAG 25	10

BY COMMAND OF BRIGADIER GENERAL BROWN

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OFFICIAL

JOSEPH F. SMITH JR.
Major, USMC
ACofS, G-4

ENCLOSURE (7)

[redacted]

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[redacted] UNCLASSIFIED

2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
0800U, 17 April 1953

Annex BAKER to MOVEMENT PLAN 2-53

VEHICLE MOVEMENT SCHEDULE

1. ASSEMBLY: All vehicles Motor Park 700 block Camp Desert Rock prior 1630U, 19 April 1953

2. CONVOY ABLE

   a. Vehicles

      (1) Truck, 1/4 ton, 4x4, radio 4

   b. March Table:

      (1) Depart Camp Desert Rock 1030U, 19 April 1953

          ETA Indian Springs AFB 1115U, 19 April 1953

   c. Personnel: 4

3. CONVOY BAKER

   a. Vehicles:

      (1) Car, 5 passenger 3

      (2) Trailer, 1/4 ton, 2 wheel cargo 4

      (3) Trailer, 1-1/2 ton, 400 gal (M106) 2

      (4) Truck, 1/4 ton, 4x4 13

      (5) Truck, 2-1/2 ton, 6x6, cargo 8

      (6) Trailer, 2-wheel, stock room 1

      (7) Trailer, photographic, MPPU 2

      (8) Truck, 2-1/2 ton, 6x6, dump 1

      (9) Truck, 2-1/2 ton, 6x6, wrecking 1

      (10) Truck, 3/4 ton, weapons carrier 4

   b. March Table:

      (1) Depart Camp Desert Rock, 0600U, 20 April 1953

          ETA Barstow 1300U, 20 April 1953

      (2) Depart Barstow, 0630, 21 April 1953

          ETA Camp Pendleton, 1300U, 21 April 1953

   c. Personnel: 67

4. CONVOY CHARLIE

[redacted]

ENCLOSURE (7)

[redacted]

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[redacted]N

Annex BAKER to MOVEMENT PLAN 2-53 (CONT'D)

a. Vehicles:

(1) Truck, 1/4 ton, 4x4	2
(2) Truck, 2-1/2 ton, 6x6, cargo	2
(3) Truck, 800 gal refueler	1
(4) Truck, 2000 gal refueler	1

b. March Table:

(1) Depart Camp Desert Rock with convoy BAKER at 0600U 20 April 1953.

ETA Barstow 1300U, 20 April 1953

(2) Depart Barstow 0600U, 21 April 1953.

ETA MCAF Santa Ana, California 1200U, 21 April 1953

c. Personnel: 13

NOTE: Two (2) trucks, 2-1/2 ton, 6x6, and one (1) truck, 1/4 ton, 4x4, depart MCAF, Santa Ana California 1350U, 21 April 1953. ETA Camp Pendleton, 1530U, 21 April 1953. Personnel: 7

CONVOY DOG

a. Vehicles:

(1) Truck, 1/4 ton, 4x4, radio	4

b. March Table:

(1) Depart MCAS El Toro 1300U, 19 April 1953

ETA Camp Pendleton, California 1500U, 19 April 1953

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK JR.
Colonel, USMC
Chief of Staff

DISTRIBUTION: (Same as MOVEMENT PLAN 2-53)

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JOSEPH T. SMITH JR.
Major, USMC
ACofS, G-4

[redacted]CLOSURE (7)

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[redacted]

2d [redacted] Provisional
Atomic Exercise Brigade
Camp Desert Rock, Nevada
0800U, 17 April 1953

Annex CHARLIE to MOVEMENT PLAN 2-53

AIRLIFT MOVEMENT SCHEDULE

UNIT	DATE	TIME	VIA	PERSONNEL	EQUIP OR VEHICLES WT.
1. BLT 2/3	Shot day	1600U	VMR 253	504	
2. MAG-16	Shot plus 1 **	0500U	HRS	142	
3. BLT 1/8	Shot plus 1 *	0800U	MAG 35	981	
4. BLT 2/3	Shot plus 1 *	1130U	VMR 253	392	4-trk,4x4Radio13, 200
5. MAG-16	Shot plus 1 *	1530U	VMR 253	112	
6. 2d MCPAEB	Shot plus 1 *	1530U	VMR 253	42	
7. 2d MCPAEB	Shot plus 2 *	1300U	AirFMFPac	45	

* Depart Indian Springs AFB
** Depart Camp Desert Rock

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK JR.
Colonel, USMC
Chief of Staff

APPENDICES:
I --BLT 1/8 schedule of loading

DISTRIBUTION:

CG, Camp Desert Rock	1
Hq, 2d MCPAEB	10
BLT 2/3	10
BLT 1/8	10
MAG (HR) 16	10
MAG 25	10

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JOSEPH T. SMITH JR.
Major, USMC
ACofS, G-4

[redacted]

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[redacted]

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[redacted]

2d Marin[redacted]onal
Atomic [redacted] Brigade
Camp Desert Rock, Nevada
0800U, 17 April 1953

Appendix I to Annex CHARLIE to MOVEMENT PLAN 2-53

BLT 1/8 SCHEDULE OF LOADING

1. Serials to load in following order:

   a. All central route serials load first

   b. All southern route serials load second

   c. All northern route serials load third

2. Details:

1ST

CENTRAL 3d Route			SOUTH 2d Route			NORTH 1st Route		
Serial	Nose No.	Load Time	Serial	Nose No.	Load Time	Serial	Nose No.	Load Time
3-3	662	0805	2-2	575	0845	1-1	677	0925
6-3	663	0810	5-2	577	0850	4-1	678	0930
9-3	664	0815	8-2	578	0855	7-1	679	0935
12-3	666	0820	11-2	739	0900	10-1	682	0940
15-3	667	0825	14-2	742	0905	13-1	680	0945
18-3	672	0830	17-2	740	0910	16-1	686	0950
21-3	669	0835	20-2	741	0915	19-1	684	0955
24-3	670	0840	23-2	737	0920	22-1	687	1000

BY COMMAND OF BRIGADIER GENERAL BROWN

J. S. COOK JR.
Colonel, USMC
Chief of Staff

DISTRIBUTION:

CG, Camp Desert	1
Hq, 2d MCPAEB	10
BLT 2/3	10
BLT 1/8	10
MAG (HR) 16	10
MAG 25	10

O F F I C I A L

JOSEPH T. SMITH JR.
Major, USMC
ACofS, G-4

[redacted]

ENCLOSURE (7)

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2d Marine Brigade
[redacted]
171800 April 1953

TACTICAL PLAN)

NUMBER 0)

MAPS: Nevada 1:25,000 (Restricted) Tippipah Spring Sheet

TASK ORGANIZATION

2d Marine Brigade	Brigadier General MARGRIG, USMC
3d Marines (-)	Colonel THIRDMAR, USMC
8th Marines (-)	Colonel EIGHTMAR, USMC
Task Force Able	Colonel MAG, USMC
MAG (HR) 16	
2d Bn, 3d Marines (/)	
1st Field Artillery Group	Colonel FAG, USMC
1st Bn, 12th Marines	
2d Bn, 12th Marines	
Co "A", 3d Tank Bn	Major BOGIE, USMC
Co "A", 3d Eng Bn	Captain DOZIER, USMC

1. GENERAL SITUATION - Annex ABLE.

a. Aggressor Forces consisting of the 2d Rifle Division and the 22nd Mechanized Division are massing to the north in the vicinity of Twin Forks. The combined strength of this force is estimated to be about 27,000 officers and men.

b. (1) The 3d Fleet conducts intensive air and surface bombardment of aggressor MSR in the vicinity of Yucca Pass, and supports the 2d Marine Brigade.

(2) MAG-13 delivers atomic bomb at H-hour on 785104 and supplies continuous air cover and close air support on call after H-hour.

2. a. This Brigade attacks on order on D-day with two regiments in assault and one battalion in reserve, main effort on right, seizes hills 600, 550 and 650 near Twin Forks, destroys all aggressor forces and denies aggressor the use of roads forming Twin Forks.

b. D-day: 18 April 1953

c. H-hour: 0600U.

d. LD, Bdrys, Z Action, Assy Areas - Annex BAKER

3. a. 8th Marines (-) on D-day attacks on order, seizes hill 600, consolidates positions and establishes contact with 2d Bn, 3d Marines occupying positions on hill 650.

b. 3d Marines (-) on D-day attacks on order, seizes hill 550, consolidates positions and denies aggressor the use of Twin Forks.

ENCLOSURE (8) [redacted]

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[redacted] UNCLASSIFIED

c. (1) Task Force Able air lifts 2d Bn, 3d Marines (-) from carrier to vicinity of hill 650 at [redacted] hour on D-day, siezes 650 and prevents aggressor forces from moving reinforcements through Twin Forks.

(2) Approach and retirement route Annex BAKER.

d. 2d Bn, 8th Marines in Brigade Reserve on order on D-day occupies positions to the south in vicinity of BM 4076 and denies aggressor forces access to the Brigade Zone of Action from the south.

e. First Artillery Group reinforced by NGF as requested, supports with one battalion in direct support 8th Marines, one battalion in direct support 3d Marines, prepared to reinforce fires in 8th Marines zone of action with one battery. A five minute preparation will be fired at H plus 1 minute, at H plus 6 minutes lift fires to Hills 550, 650, and 600.

f. Co "A", 1st Tank Bn on order on D-day, moves to assembly area at Twin Forks prepared to support the main effort.

g. Co "A", 1st Eng Bn in general support.

x. (1) Contact from right to left.

(2) Observe strict radiac discipline.

(3) Organizations report this headquarters average dosage of personnel.

(4) Plan "WILLIAM" is in effect during Task Force Able lift in approach and retirement route.

4. Administrative Order 1-53.

5. a. (1) Signal Communications: Current SOI and SOP.

(2) CP at 758036.

BY COMMAND OF BRIGADIER GENERAL MARBRIG

O. B. CHIEF
Colonel, U. S. Marine Corps
Chief of Staff

ANNEXES:

ABLE: General Situation
BAKER: Operation Sketch

DISTRIBUTION: Special

OFFICIAL:

J. G. JONES
LtCol., USMC
ACofS, G-3

ENCLOSURE (8)

[redacted]

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[redacted]

2d Marine Brigade
In the Field
171800 April 1953

Annex ABLE to Tactical Plan #0
GENERAL SITUATION

On 17 January Aggressor Forces launched a series of attacks against cities and ports of Atlantis. By 8 March remaining Aggressor Forces, consisting of 6 Rifle Divisions and 2 Mechanized Divisions of the Aggressor XIX and XX Corps had reached the southern coast of Atlantis in the vicinity of Tippipah Spring. The air situation is about equal.

The Supreme Commander Southern Atlantis has been ordered to contain the aggressor divisions north of the Port of Las Vegas until 8 May, by which time supporting Atlantis Forces will have arrived through the port. Forces available to the Supreme Commander are three depleted divisions, the Atlantis Third Fleet, and Amphibious Force, consisting of the 2d Marine Corps Provisional Brigade, reinforced.

By 13 April Aggressor Forces had captured Yucca Pass, and leading elements were exerting heavy pressure on Atlantis Divisions occupying delaying positions in vicinity of Spotted Range. The Supreme Commander, Southern Atlantis, ordered the Amphibious Force to land in the vicinity of Yucca Flats for the purpose of delaying the advance of Aggressor Forces and relieving pressure against Atlantis divisions to the south.

The 2d Marine Corps Provisional Brigade landed on 16 April against light and sporadic opposition and the Force Beach Head Line was secured by the evening of D-day, thereby cutting the main north-south supply route of the Aggressor Forces.

By the evening of 17 April, Aggressor Forces, consisting of the 2d Rifle Division and 22nd Mechanized Division of the XX Corps, were observed to be massing to the north in the vicinity of Twin Fork for an all out assault on the Force Beachhead Line.

BY COMMAND OF BRIGADIER GENERAL MARBRIG

O. B. CHIEF
Colonel, U. S. Marine Corps
Chief of Staff

DISTRIBUTION:

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J. G. JONES
LtCol.,USMC
ACofS, G-3

Annex ABLE
ENCLOSURE (8)

[redacted]

[redacted]

UNCLASSIFIED

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2d Marine Corps [redacted]sional
Atomic [redacted]
Camp [redacted]leton, California

[redacted]

SELECTED OFFICER VOLUNTEER PROGRAM

1. The following named Marine Officers occupied a trench two thousand (2000) yards from Ground Zero during Exercise DESERT ROCK V held on 18 April 1953:

a. Colonel W.F.LANTZ, C5629, Marine Corps Schools, Quantico, Va.

b. Lieutenant Colonel G.W.E.DAUGHTRY, C8128, Headquarters, U. S. Marine Corps.

c. Major D.W.SCHUMAKER, C15613, 3d Marine Division, FMF.

d. Major V.J.LINNENBOM, 018916, 5th Marine Corps Reserve District, Washington, D.C.

e. Major I.E.SPIEKER, 023698, Headquarters, U. S. Marine Corps.

f. Captain R.C.SEBILIAN, 049292, 2d Marine Division, FMF.

2. Selection of the above officers was made from officers who volunteered to occupy a trench forward of the troop entrenching area. The participants were required to have a knowledge of the effects of atomic weapons by having either attended a Weapons Effects Course or have had gained the knowledge through practical experience. Each participant was required by the Exercise Director, to calculate the distance from ground zero at which they would receive five (5) Roentgens of instantaneous radiation while in a fox hole six (6) feet deep, the distance at which eight (8) psi would be received on the surface and the distance where one (1) calorie per square centimeter would be received.

3. As a result of their calculations, all officers recommended that they occupy a trench at two thousand (2000) yards from ground zero, and at the time of the detonation all would be in a squatting position. A trench six (6) feet deep and approximately fifteen (15) yards long was dug in soil consisting of rocks and fine silt. The participants inspected the trench and decided not to have it reinforced. Two rows of sand bags were placed on the forward edge of the trench.

ENCLOSURE (9)

[redacted]

[redacted]

UNCLASSIFIED

4. The AEC issued a film badge to each individual. The army issued each individual three film badges, a dosimeter and a flashlight. One film badge was placed in the top of the helmet liner, one was placed in the breast pocket and one was taped on the back of the jacket. Six film badges were issued to each individual by the 2d MCPAEB. These were placed as follows: One in the top of the helmet liner, one in the breast pocket, one in the left hip pocket, one in the right front pocket and one in the top of each boot. Twelve special type film packets were obtained from AEC. Two packets were placed at each of the following locations: Top of the trench, middle of the trench and at the bottom of the trench. Two packets each were carried by Col LANTZ and LtCol DAUGHTRY. Major LINNENBOM and Major SPIEKER carried one each.

5. Film Badge Processing:

a. The AEC film badges are being developed by the AEC at Camp Mercury and the results will be forwarded to Headquarters, Marine Corps.

b. The Army film badges are to be developed by Camp Desert Rock Signal Unit and the results forwarded to Headquarters, Marine Corps.

c. The film badges issued by the 2d MCPAEB are to be developed by BuMed and the results forwarded to Headquarters, Marine Corps.

d. The special film packets are being developed by the AEC and the results will be forwarded to Headquarters, Marine Corps, via Headquarters, AFSWP.

6. Two TI-B radiac instruments were carried to determine the intensity of the radioactivity. Col LANTZ carried an AN/PDR-32, a radiac instrument under test by the Marine Corps Equipment Board. These three instruments were initially located at the bottom of the trench. The above instruments were on at the instant of the detonation. After the light from the fireball had dimmed to where the instruments were visable again the needles were observed to be pinned beyond the highest reading of the instruments. The TI-B's range is up to 50 Roentgens per hour and the AN/PDR-32's range is up to 500 Roentgens per hour. The above condition appeared to exist for 8 to 10 seconds. The trench was evacuated after approximately 8 minutes and by the time the participants were out of the trench the radiation intensity readings were 45 to 50 Roentgens per hour. The intensity did not change and the cloud appeared to be passing over the trench. Dosimeter readings were taken as s[redacted] as the trench was evacuated and most individuals

indicated they had received from 5 to 6 Roentgens. The decision was made to evacuate the area and the group proceeded to the West to the junction of the 2000 yard road and the West access road. Upon reaching this point the intensity readings were as follows:

at H/9 Min	.950	Roentgens
H/10 Min	.800	"
H/11 Min	1.000	"

The group proceeded up the road away from ground zero and the following readings were discovered;

at 2100 yds	at	H/14 Min	.5	Roentgens
2500 yds	at	H/19 Min	.32	"
3000 yds	at	H/25 Min	.12	"

7. Dosimeter Reading:

The dosimeter readings shortly after the blast were from 5 to 6 Roentgens. The total dosage received ranged from 7 to 10 Roentgens.

8. The following is a summary of the individual reactions:

a. Initial Flash: All participants agreed that the initial flash was extremely bright, and seemed to last for a period of approximately two seconds. Although their vision was directed towards the bottom of the trench, two of the participants experienced momentary blindness after the light had disappeared, but recovery was rapid. The other four officers experienced no visual aftereffects. The fireball was almost immediately obscured by dust.

b. Thermal Effects: None of the participants experienced any thermal effects whatsoever.

c. Blast: Only one participant reported feeling any increase in pressure; the other five officers experienced no pressure effects. The noise was extremely loud, but no discomfort was noted. Blast effects were sufficient to produce a shower of small pebbles and soil from the sides of the trench.

d. Ground Shock: One participant reported a very strong rocking motion of the earth. The other five experienced only a slight rolling movement. Tremor and vibration in the trench walls was noticeable, but slight. Soil and small pebbles were dislodged from the walls of the trench, probably by a combination of blast effect and ground shock.

9. Conclusions:

Based on participants being located 2000 yards from ground zero for a 40 KT detonation on a 300 foot tower, it was concluded that:

a. A six foot trench is adequate.

b. A trench need not be revetted in similar soil structure.

c. There is no discomfort from any of the blast or thermal effects.

d. Ground shock is not of a magnitude great enough to be of any concern.

e. Properly indoctrinated troops could engage in close combat after being subjected to the atomic detonation.

10. Recommendations:

a. A limited number of Marine participants take part in a similar program during future atomic tests.

b. Enlisted men be permitted to participate in this program.

c. The requirements for calculating the effects of an atomic explosion need not be required by each participant.

/s/ H. F. Schwethelm

H. F. SCHWETHELM
Lieutenant Colonel, U. S. Marine Corps
ACofS G-3

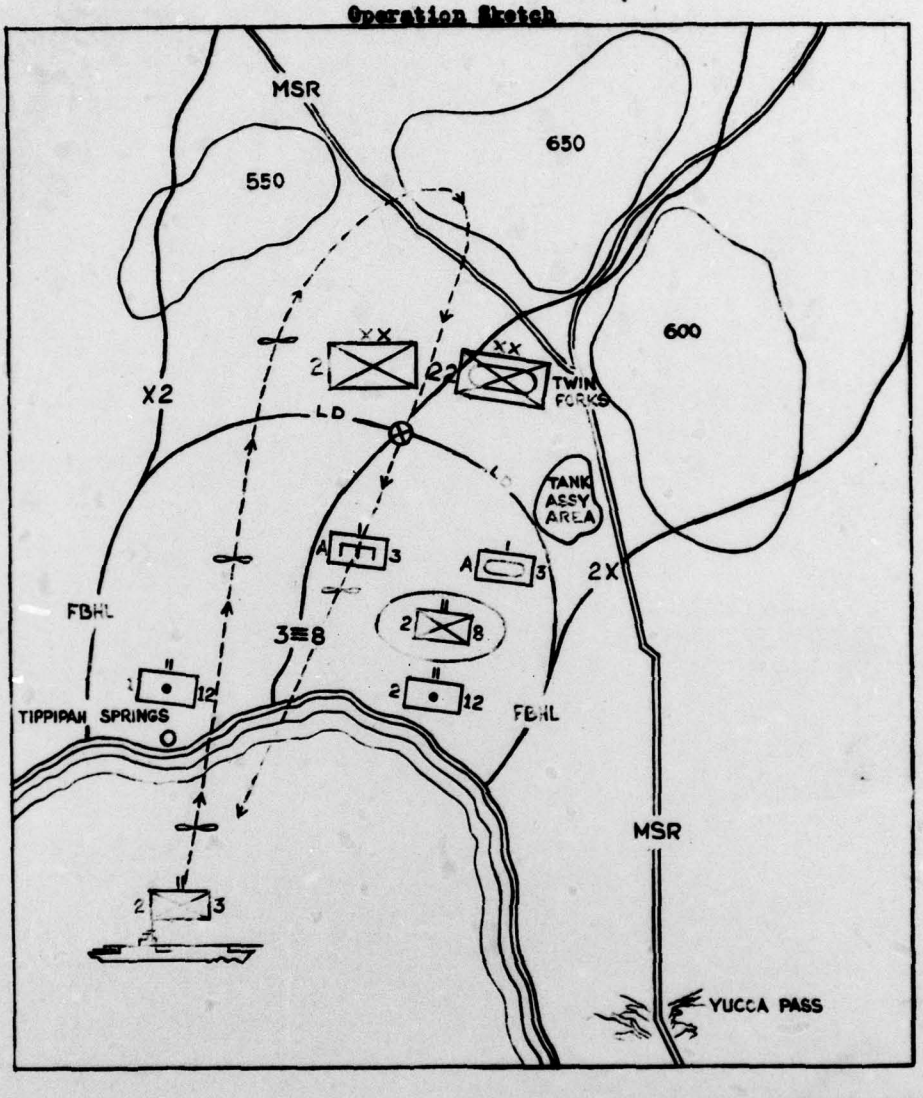
[redacted]

2d Marine Brigade
In the Field
171800 April 1953

[illegible]SSIFIED

Annex BAKER to Tactical Plan #0

Operation Sketch



BY COMMAND OF BRIGADIER GENERAL MARBRIG

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Colonel, U. S. Marine Corps
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DISTRIBUTION:
Same as Tactical Plan #0.

OFFICIAL

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Annex BAKER
ENCLOSURE (8)

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UNCLASSIFIED

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UNCLASSIFIED

2d Marine Corps Provisional
Atomic Exercise Brigade
Camp Pendleton, California
30 April 1953

SUMMARY OF MARINE CORPS OBSERVER
COMMENTS ON QUESTIONNAIRE

1. Question: Comments and recommendations concerning the scope of Marine Corps participation in atomic exercises.

SUMMARY OF COMMENTS:

a. The majority of the observers indicated approval of Marine Corps participation in future atomic exercises, including more frequent participation on a larger scale. Most observers felt that exercises of this type contributed materially to the training and indoctrination of personnel and helped overcome the adverse psychological effects in atomic warfare.

b. Increased emphasis could be placed on tactical concepts.

c. It would be desirable to have Marine Corps Aviation drop a tactical bomb for benefit of Marine Corps troops.

d. The helicopter movement could have been more fully explained for the benefit of the observers of other services.

e. Although future participation is desirable, repeat participation by enlisted troops should be avoided.

2. Question: Comments and/or recommendations on the training value of this type exercise.

SUMMARY OF COMMENTS:

a. All observers believed that this type of training was excellent, that it had great value for indoctrination, unit and individual training, and that it should be continued. However, some observers felt that they were not given sufficient briefing or prior indoctrination, and one expressed that the exercise was of little training benefit below the staff level.

b. Many observers mentioned that this type of training was non-tactical.

3. Question: Considering tactical employment of an atomic weapon, comment on the present level of indoctrination training in the Marine Corps.

SUMMARY OF COMMENTS:

a. All except three (3) observers stated that there was insufficient training and they recommended a definite increase. Of the three who believed the present training adequate, one felt it needed a tactical doctrine, one said it was adequate in view of other committments and cost, and the other felt the Engineer School Battalion, Marine Barracks, Camp Lejeune, provided adequate training.

ENCLOSURE (10)

[redacted]

UNCLASSIFIED

4. Question: Comments and/or recommendations concerning command and staff level training for tactical atomic weapons employment.

SUMMARY OF COMMENTS:

a. Most observers felt that such training was lacking and heavy emphasis should be placed on this subject.

b. Some observers commented that present training was adequate, including that at Marine Corps Schools and at courses offered at San Diego.

c. More detailed planning for the employment of special weapons and better coordination between ground and air is required.

d. An atomic warfare expert should be on the staff of divisions and higher units.

e. Staffs of divisions, wings and higher commands should be trained to plan for and conduct operations in which atomic weapons are employed by both friendly and enemy forces.

5. Question: What effects will employment of atomic weapons both by friendly and enemy forces, have on the present tactics and techniques of the Landing Force?

SUMMARY OF COMMENTS:

a. The common feeling among observers was that tactics will have to change to include more deployment or dispersion of troops, mobility, faster ship to shore movement, better intelligence, better communications, and more responsibility in low echelon commands.

b. Three observers felt present doctrines, or doctrines developed during past year, were adequate, with possibly more emphasis on dispersion.

c. Changes in formations will be necessary so as not to take too great a calculated risk in moving troops.

d. Present landing craft are too slow.

e. Atomic weapons can be used to clear a beach for landing but it is possible to make World War II type beach-heads untenable for landing forces due to radiation.

f. Motor transport must develop means of rapidly concentrating or dispersing troops, possibly motorcycles or other individual transportation would suffice.

g. Some type of mechanical means for entrenching should accompany small units.

6. Question: Comments and/or recommendations concerning general and special situations and tactics in Marine Corps Exercise Desert Rock V.

SUMMARY OF COMMENTS:

a. Generally, the observers felt tactics and special situations were well handled at Desert Rock, considering the limitations and restrictions placed by AEC on the exercise.

b. Two observers stated that helicopters should be more fully exploited by having troops airborne at time of detonation and able to land in a mass.

c. Another stated that there was a disparity between helicopter employment in this exercise and that taught in Marine Corps Schools.

d. One observer questioned how many aircraft carriers were required to lift 39 HRS helicopters, and in his opinion, the operations plan did not conform to that taught in Marine Corps Schools.

e. Ground elements should have been highly mobilized by use of tanks or personnel carriers.

f. It would have been interesting to have observed effects on field fortifications of an elaborate, deliberate, defense type 500 yards from ground zero.

g. Why a brigade? Keep exercise on division level.

h. Administration of visit to proving ground on rehearsal day did not seem to be well organized from the observer viewpoint. Suggest USMC personnel take this over.

7. Question: Recommendations concerning tactical employment and techniques encountered in Operation Desert Rock V.

SUMMARY OF COMMENTS:

a. Tanks in advance of the infantry would add realism. A 4000 yard assault was unusual.

b. One observer believed that the helicopter lift could have been more aggressive, that helicopters should be divorced from aviation and assigned to ground forces, and that delivery of only 3 troops per helicopter is tactically unsound. He also commented that in an actual exercise, flak suppression, fighter coverage, and artillery and naval gunfire would be essential for a successful helicopter movement. Pilots of helicopters, he felt, should be trained at less expense than regular Naval Aviators and be held at enlisted level of rank.

c. Alternate routes of approach and [redacted] should have been designated.

d. Helicopters should have been brought in sooner. Troops were still being landed 40 minutes after detonation.

8. Question: Comments and/or recommendations concerning the lift of troops by helicopters in Desert Rock V.

SUMMARY OF COMMENTS:

a. Most observers felt the lift was too slow, did not lift a large enough number of troops, and that the lift should have been airborne at shot time.

b. Direction of the wind appears to dictate approach lanes and loading areas due to dust cloud.

c. The helicopter lift is a possible answer to the need for greater dispersion.

9. Question: Considering tactical employment of atomic weapons, comment on the tactical employment of lifting troops by helicopter.

SUMMARY OF COMMENTS:

a. All observers agreed that the helicopter has tremendous possibilities, is a possible answer to dispersion problems, is very useful in taking advantage of the shock effect of the atomic blast, and will be a mandatory requirement for the future. However, many stated that a great deal of study is required on the subject of the helicopter troop lift.

b. Helicopters might prove more valuable to reinforce the front lines rather than risk exposure to radiation by putting troops in the area of the explosion.

10. Question: Comments and/or recommendations concerning the equipment used for demonstration purposes in Desert Rock V.

SUMMARY OF COMMENTS:

a. Most comments stated that the demonstration was excellent.

b. Should have more dumps, approximating those found in combat.

c. More equipment should have been dug in as if anticipating an atomic attack, with mortars and high angle weapons dug in deeper with built-up emplacements.

d. Some fox-holes and bunkers with openings faced in different directions should be included.

e. That ammunition and powder be included; have cartridge belts on dummies and ammunition beside weapons.

f. There should be included some engineering equipment, such as: cable operated equipment, water supply equipment, and maintenance gear.

g. Vehicles should have engines running and radios should be turned on at time of detonation.

11. Question: What is your opinion as to the adequacy of present intelligence facilities, techniques and training of personnel which will permit full exploitation of tactical atomic targets?

SUMMARY OF COMMENTS:

a. Majority of the observers felt that at present our intelligence is weak, entirely too inadequate, that to exploit the full capabilities of atomic weapons, we must provide more training, indoctrination, new concepts, greater facilities and techniques, better communications, better location of targets and that present concepts are decided by too few individuals.

b. One observer believed the present program adequate and said MCS instruction was adequate.

12. Question: Such other comments and/or recommendations as you desire to make.

SUMMARY OF COMMENTS:

a. Most observers commented that the exercise was a valuable experience and should be made available to as many marines as possible. Increased participation by marines was recommended. Some belived that observers from the Marine Corps should be attached to marine units, while at Camp Desert Rock, to gain more knowledge on a marine level.

b. Atomic tests be made in logically defensive terrain to determine probable effects.

c. A group of observers be formed into a team to impart to all stations the information gained.

d. Participants should be regular marines if possible with the exception of reserves just starting tour of duty.