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EXERCISE DESERT ROCK LAS VEGAS NV  
EXERCISE DESERT ROCK VII AND VIII, OPERATION ORDER NUMBER 12. A--ETC(U)  
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Army. Camp Desert Rock. Nevada

25 July 1967

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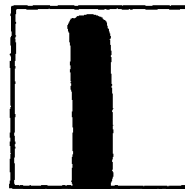
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Camp DESERT ROCK, Nevada  
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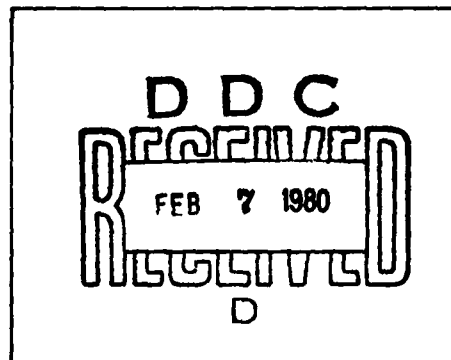
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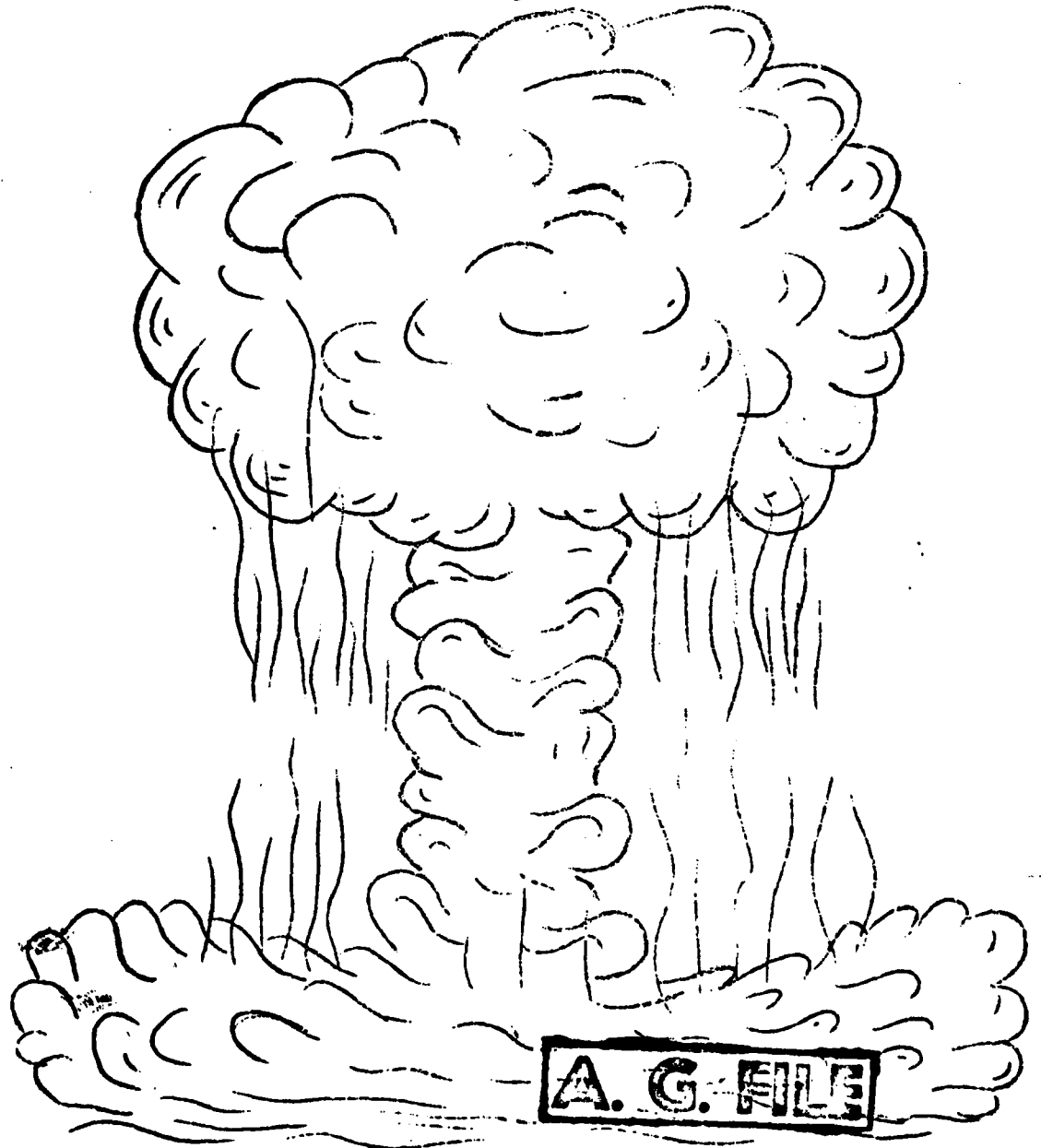
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# OPERATION ORDER

NO. 12

Desert Rock VII & VIII



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Hq, Exercise Desert Rock VII & VIII  
CAMP DESERT ROCK (872536), NEVADA  
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Operation Order 12

Map: NEVADA, 1:50,000, TIPPIPAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

Time Zone: Pacific Daylight Time

Task Organization: Annex A, Task Organization.

1. SITUATION.--The Atomic Energy Commission detonates an atomic device (KEPLER) at H-hour on D-day which will be observed by approximately 1200 observers. After the shot personnel will monitor in the ground-zero area, Signal and Artillery radar sets will be operated, and Artillery Troop Test will be conducted.

2. MISSION.--Hq, Exercise Desert Rock VII & VIII, supervises and coordinates Desert Rock Army, Navy, and Air Force participation in shot KEPLER in the YUCCA FLAT area in the NEVADA TEST SITE commencing at H-hour on D-day to:

a. Indoctrinate selected observers in effect of atomic weapons (Project personnel and selected personnel from CAMP DESERT ROCK).

b. Track the movement of radioactive clouds, determine the height of the clouds, and investigate the feasibility of special and standardized Army radar equipment for such use (Project 50.3).

c. Determine the organization, equipment, and weather data required by US Army units to predict and monitor radiological fallout (Project 50.8).

3. EXECUTION.

a. Concept of operation.--Personnel from Camp Desert Rock, Project 53.3 will observe shot KEPLER from a safe position in YUCCA FLAT (Annex B, Opn Overlay). Shortly after the shot, Desert Rock Rad-Safe personnel will monitor in the observation area. Upon announcement of H-hour personnel from Project 50.3 will track the radioactive cloud from approved radar site. Project 50.8 will operate various radar sites, sound and flash sites, meteorological stations, and observation posts to achieve test objectives.

b. 50th Chemical Flat.--Provide Rad-Safe support as required. Annex C, Rad-Safety Plan.

c. Co B, 84th Engr Bn (Reinf).--Provide Engineer support as required.

d. Unit, 8th Field Hosp.--Provide medical support as required. Annex D, Medical.

e. 293d MP Co (-).--Provide traffic control as required. Annex E, Provost Marshal.

f. 526th Ord Co (HAM) (-).--Provide Ordnance support as required.

g. 232d Signal Co.--Provide Signal support as required. Annex F, Signal.

h. 26th TC Bn.--Provide transportation support as required. Annex G, Transportation.

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i. Project 50.3.--Equipment (1--APQ-1, 1--CPS-9, 2--APQ-13, and 1--APQ-13) per par 2b above from approved sites in the vicinity of coordinates 89 2; only equipment approved during power dry run will be operated; all other equipment will be completely secured.

j. Project 50.8.--Emplace and operate radar equipment, sound and flash equipment, meteorological stations, and observation posts from approved sites to determine the organization, equipment, and weather data required by US Army units to arrive at yield and to predict and monitor radiological fallout; only signal equipment approved during power dry run will be operated; all other equipment will be completely secured. Annex H, Project 50.8 Locations.

(1) B-26 aircraft based at GEORGE AFB will be airborne H-30 minutes vicinity NTS and fly a race-track course 15 miles N of GZ at an altitude of 15,000 feet using approved radio channels 7 and 10; after shot pilot will fly so as to place the radioactive cloud between the plane and the radar set at Project 50.8 site B-19 so as to test the attenuation of NIKE missile control signals when operating in or beyond an atomic cloud (NIKE missile will not be used).

(2) Air and ground radiological survey will be conducted to determine the actual fallout pattern up to 5 r/hr line for ground and 100 r/hr line for air; four helicopters will be positioned at the airstrip on YUCCA LAKE (vicinity 850904) on D-1 day and will operate from that site, flying at an altitude of two hundred feet, after clearing each flight with the AGC at CP-1 by radio; three 1/4-ton trucks will be positioned prior to D-day at Project 50.8 site B2; survey will start at H+30 minutes and both 1/4-ton trucks and helicopters will take readings at specified checkpoints, transmitting such readings by radio to the control point located at site B-2.

k. Desert Rock Aviation Section.--Provide two L-20 aircraft on ground alert at the Desert Rock air strip for air evacuation of casualties to the Nellis Air Force Base Hospital. Annex D, Medical.

l. Coordinating instructions.

(1) Unit commanders will insure that all Desert Rock personnel have film badges.

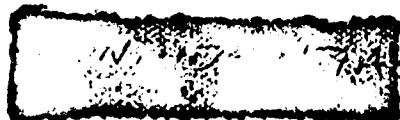
(2) All personnel will be familiar with provisions of the Rad-Safe Program.

(3) All selected observers will possess at least a valid CONFIDENTIAL security clearance. Security rosters by vehicle will be prepared by S-3 (and certified by S-2 or his representative) for presentation to the MERCURY Security Office prior to the scheduled movement. Badged vehicle escort officers will be selected for each vehicle in the movement. Escort Officers will load assigned vehicles by roster, red-lining the names of those personnel not present at the entrucking formation. One of two copies of the corrected roster will be handed to a DCD security representative prior to departure from CAMP DESERT ROCK. Upon return after the shot, the second copy will be signed by the escort officer and turned in to the S-3 office for file. Personnel will go and return in same vehicle.

(4) Vehicle escort officers will maintain absolute control of their groups from the time vehicles are first loaded until they are returned to CAMP DESERT ROCK.

(5) All personnel will be informed that two minutes prior to H-hour a 10-second siren signal will be sounded. At this time all personnel will turn their backs to GZ, close their eyes, and cover their eyes with their hands until the announcement to recover is made.

(6) All personnel will be cautioned not to pick up any items in the NEVADA TEST SITE. Although innocent in appearance these items may be radioactive.



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(7) Radio silence will be maintained and all gasoline engines turned off from shot-time minus 15 minutes until shot-time plus 5 minutes, during which time all radio stations will continue to monitor their nets on battery-powered radio silence. Only messages that justify delay of shot will be transmitted during this period.

(8) Evacuation in case emergency will be made direct to CAMP DESERT ROCK. Annex I, Evacuation Plan.

(9) Any damage inflicted on experimental equipment in the test site will be reported to the Control Group Commander immediately.

#### 4. ADMINISTRATION AND LOGISTICS.

##### a. Administration.

(1) Current administrative instructions apply.

(2) Uniform and equipment.

Fatigues	Pistol belt
Combat boots	Canteens w/cup and cover
Field Jackets (if required)	First-aid packet and pouch
Special equipment as required	

(3) Hot coffee will be served in CAMP DESERT ROCK prior to entrucking.

##### b. Logistics.

(1) Medical.--Aid station will be established at observer area. Annex D, Medical.

(2) Chemical.--Decontamination station will be established at coordinates 848888.

(3) Transportation.

(a) List of required vehicles and drivers' names will be furnished to S-3 by the Transportation Officer. S-3 will prepare observer rosters for convoy.

(b) Vehicles will be marked on the right-front windshield with a number system, ie, A-1, A-2, etc.

(c) March unit will contain one empty vehicle to transport personnel in case of breakdown.

(d) Two wreckers will be located at the rear of the march unit. Vehicles which breakdown during the movement to the observer area will be pushed to the side of the road and left until the return trip. At that time the wreckers will tow these vehicles back to CAMP DESERT ROCK.

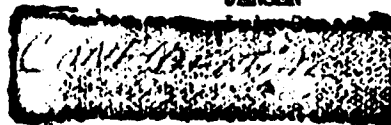
(e) The last vehicle of the convoy will clear the MERCURY HIGHWAY and close in the vehicle parking area by 0330 hours on D-day.

#### 5. COMMAND AND SIGNAL.

##### a. Annex F, Signal.

b. Commanding General or his representative will be located at CP-1. Forward CP, Exercise Desert Rock VII & VIII will open in the observer area at H-3 hours.

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Operation Order 12, Cont.

Annexes: A--Task Organization  
B--Opn Overlay  
C--Rad-Safety Plan  
    Appendixes: 1--Rad-Safe Control Net  
D--Medical  
E--Provost Marshal  
F--Signal  
    Appendixes: 1--Avalanche Net  
                2--Hilltop Net  
                3--Wire Circuits System 1  
                4--Wire Circuits System 2  
G--Transportation  
    Appendixes: 1--Convoy Organization  
                2--March Tables  
H--Project 50.8 Locations  
I--Evacuation Plan  
J--Distribution List

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Hq Exercise Desert Rock VII & VIII  
CAMP DESERT ROCK (872536), NEVADA  
181000 July 1957

Annex A (Task Organization) to Operation Order 12

Map: NEVADA, 1:50,000, TIPPIPAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

HQ, EXERCISE DESERT ROCK VII and VIII

Deputy Exercise Director - - - - - Brig Gen W. A. Jensen  
Executive Officer - - - - - Col C. H. Dunning  
Control Group Commander - - - - - Lt Col F. W. Townsley  
US Army Garrison, CAMP DESERT ROCK (6019-03)

SUPPORT TROOPS

50th Chemical Platoon  
Co B, 84th Engr Bn (Reinf)  
Unit, 8th Field Hosp  
293d MP Co (-)  
526th Ord Co (HAM) (-1 Plat)  
656th QM Petrol Supply Co (-)  
Det, 53d QM Subsistence Supply Co  
Det, 163d QM Laundry Co  
232d Signal Co  
Signal Supply Team (KA)  
Signal Maintenance Teams (GK and RD)  
Signal Pictorial Teams (AB, FC, FH, and FF)  
Signal Photo Dosimetry Team  
26th TC Bn  
Hq & Hq Co  
2d TC Truck Co (Pet)  
38th TC Co (Hv)  
351st TC Co (Med)  
TC Provisional Aircraft Maint Det

DESERT ROCK PROJECTS

Project 50.3, Evaluation Medium Range Detonation and Cloud Tracking System  
Project 50.8, Troop Test of Atomic Burst Equipment  
Project 53.3, ADC Air Crew Observers

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Hq, Exercise Desert Rock VII & VIII  
CAMP DESERT ROCK (872536), NEVADA  
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Annex 6 (Opn Overlay) to Opn O 12

Map: NEVADA, 1:50,000, TIPPICAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

Observation Area  
TCP Parking Detail  
Turn-around

Observation Area

(753025)

GZ X

82

04

Alternate Observation Area (825012)

NOTES:

1. Emergency Evacuation: Retrace route into observation area back to CDR.
2. Convoy will clear AEC Ck Pk Nr 4 not later than 0145 hours on D-day.
3. Parking area in vicinity of observation area.
4. Vehicles parked in parking area not later than 0330 hours on D-day.

DUST SPEED

TCP Nr 1

94

80

MERCURY HIGHWAY

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AEC Ck Pk Nr 4

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Fort Rock VII & VIII  
CAMP DESERT ROCK (872536), NEVADA  
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Annex C (Rad-Safety Plan) to Opn 0 12

Map: NEVADA, 1:50,000, TIPPIPAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMEN LAKE, AND MERCURY Sheets.

1. SITUATION.--See Opn 0 8

2. MISSION.--To provide radiological safety for operations conducted in the areas assigned and on the routes thereto to include organization, personnel equipment, dosimetry, field decontamination, and operating procedures and restrictions for all participants based on criteria established by the Department of Defense and the Test Director.

3. EXECUTION.

a. Survey of observation area.--50th Cml Plat (Svc) provides two (2) motorized, radio-equipped RAD-SAFE monitor teams to monitor the area and to assist in the emergency evacuation of the area should it be required.

b. Dosimetry.--See Memo Nr 8, this headquarters.

c. Personnel monitoring and field decontamination.--See Memo Nr 9, this headquarters.

d. Coordinating instructions.

(1) All observers not having density goggles of 4.2 or greater density, will close and cover their eyes with their arms and face away (180 degrees) from the detonation point when ordered to do so until detonation time plus five (5) seconds.

(2) Safety regulations published in Memo Nr 10, this headquarters, will be complied with by all personnel assigned or attached to CAMP DESERT ROCK for participation in this test shot exercise.

(3) Drivers trained as monitors will draw the necessary radiac instrument and act as the personnel and vehicle monitor for his vehicle.

(4) Vehicles other than those belonging to RAD-SAFE will not enter areas with intensities of 20 mr/hr or greater, unless approval is obtained from RAD-SAFE officer or his representative.

(5) RAD-SAFE personnel will be identified by a two-inch band of white Engineer tape mounted around their field caps.

(6) All RAD-SAFE monitor teams will operate from vehicles.

(7) All radiological survey data will be turned into the Rad-Safety Officer in Bldg T-112, CAMP DESERT ROCK, upon completion of the test shot exercise.

(8) All radios and gasoline engines will be turned off fifteen (15) minutes prior to shot time and will remain out of service until five (5) minutes after the detonation.

4. ADMINISTRATION AND LOGISTICS.

a. RAD-SAFE monitor teams will consist of one detector and one monitor, both trained as radio operators.

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Annex C (Rad-Safety Plan)

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- b. Rad-Safe and Project 53.4 vehicles and equipment will be parked at the Decontamination Station the afternoon of D-1 day.
- c. Pocket chamber dosimeters will be issued on the following basis:
- (1) One (1) per VIP.
  - (2) One (1) per monitor team.
- d. Radio survey meters will be issued on the following basis:
- (1) AN/PDR-TIB.
    - (a) Two (2) per RAD\*SAFE monitor team.
    - (b) Two (2) per Decontamination Station.
  - (2) AN/PDR-27A. Four (4) per Decontamination Station.
- e. Minimum equipment list for RAD-SAFE monitor teams is as follows:

<u>ITEM</u>	<u>QUANTITY</u>
1/4-ton truck w/radio	1
AN/PDR-TIB	2
Cones: Red	5
Yellow	4
Engineer tape (white)	As required
Grease pencil (dark color)	1
Compass	1
Flashlight	1
Grenade, Smoke, Red, M-18	2

f. Uniform as prescribed.

5. COMMAND AND SIGNAL.

- a. Rad-Safety Officer will be located at the Observation Area.
- b. See Appendix 1 for radio call signs, frequencies and RAD-SAFE Control.

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Appendixes: 1--Rad-Safe Control Net

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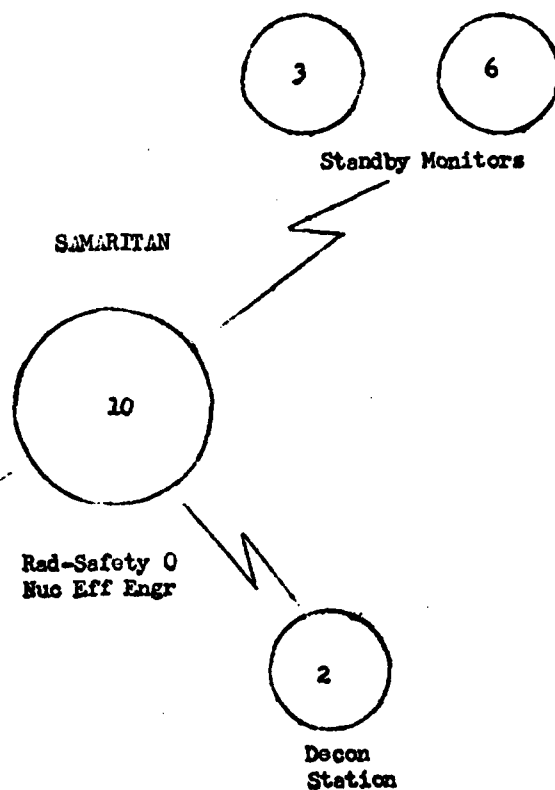
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Exercise Desert Rock VII & VIII  
CAMP DESERT ROCK (872536), NEVADA  
181000 July 1957

Appendix 1 (Rad-Safe Control Net) to Annex C (Rad-Safety Plan) Opa 0 12

Map: NEVADA, 1:50,000, TIPPICAH SPRING, Sheet.

RAD-SAFE NET  
(AN/PRC-10)  
51.3 MC



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CAMP DESERT ROCK (872536), NEVADA  
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Annex D (Medical) to Operation Order 12

Map: NEVADA, 1:50,000, TIPPIPAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

1. SITUATION.--Opn O 12.
2. MISSION.--To provide field medical support and evacuation of CAMP DESERT ROCK personnel, observers, and project personnel.
3. EXECUTION.--a. One ambulance equipped with radio, will be included in the march unit during the movement to the observer area. After the observers are unloaded, ambulances will move with march units to designated parking area and remain in that location call.
  - b. Aid station will be established in the observer area.
  - c. One (1) medical officer and one (1) aidman will be present in observer area.
  - d. Evacuation of casualties will be by the most direct and accessible route to the dispensary at CAMP DESERT ROCK.
  - e. Reserve medical team, with two ambulances, will be on call in the Camp Desert Rock area.
  - f. Air evacuation from the Camp Desert Rock air strip to the Nellis Air Force Base Hospital will be on call.
  - g. Ambulances will return to CAMP DESERT ROCK with march unit.
4. ADMINISTRATION AND LOGISTICS.
  - a. Uniform.--Field uniform, and Red Cross brassard.
  - b. Equipment.--(1) First-aid Kit to include snake bite kit for each aidman.
    - (2) Normal equipment and supplies for the aid station.

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Desert Rock VII & VIII  
CAMP DESERT ROCK (872536), NEVADA  
181000 July 1957

Annex E (Provost Marshal) to Operation Order 12

Map: NEVADA, 1:50,000, TIPPIPAH SPRING, CAME SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

1. SITUATION.--Omitted.

2. MISSION.--Provost Marshal supports movement of staff and observer group to observer area.

3. EXECUTION.

a. 293d MP Company provides three (3) escort vehicles and one parking detail for movement of staff and observer group to observer area and for return movement to Camp Desert Rock. Staff and observer vehicles will be accorded secondary priority of movement of all roads within NTS.

b. Escort vehicle Nr 1 will establish a TCP at the observer area access road and direct vehicles to the left from MERCURY HIGHWAY onto unnamed access road.

c. Escort vehicle Nr 2 will escort the convoy over designated route to the observer area.

d. Parking detail will assist serial commander in parking vehicles of the serial.

e. Upon notification, escort vehicle Nr 1 will establish TCP at the intersection of the observer area access road and MERCURY HIGHWAY and direct vehicles to the right onto MERCURY HIGHWAY for return to CAMP DESERT ROCK.

f. Coordinating instructions.

(1) Escort vehicle Nr 1 will close upon the 2<sup>nd</sup> serial's last vehicle and assist TC in parking vehicles of the serial.

(2) Escort vehicle Nr 2 will assist TC in parking vehicles of the serial.

(3) Speed limits will not exceed 5MPH on dirt surfaced roads.

4. ADMINISTRATION AND LOGISTICS.

a. Uniform.--Helmet liner, fatigues, field jacket.

b. Equipment.--Reflectorized sleeves, batons, markers, pistol belts, canteens, first aid packets, etc.

5. COMMAND AND SIGNAL.

a. Guard Net 44G-700 will be used to control movement to observer area and return.

b. Radio equipped 1/4-ton trucks will be used as escort vehicles.

c. All radios will be turned off and all engines stopped fifteen (15) minutes before shot time and remain out of service until five (5) minutes after shot.

d. Control radio call sign for movement will be RATTLESNAKE.

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Annex E (Provost Marshal) to Operation Order 14, cont'd.

e. All participating Military Policemen will synchronize watches prior to movement to site.

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Hq, First Air Force Desert Rock VII & VIII  
CAMP DESERT ROCK (872536), NEVADA  
181000 July 1957

Annex F (Signal) to Operation Order 12

Map: NEVADA, 1:50,000, TIPPIPAH SPRING, CAMP SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

1. PURPOSE.—To provide continuous communication before, during, and after the detonation of shot KEPLER on D-day at H-hour.
2. MISSION.—The 232d Signal Company and attached signal teams will provide all Desert Rock communication services in coordination with DOD signal personnel at CAMP MERCURY, NEVADA. Photo dosimetry services will be provided by the Photo Dosimetry Team from Lexington Signal Depot, LEXINGTON, KENTUCKY.
3. EXECUTION.

a. Radio communications.

- (1) Radio silence from H-15 minutes to H+5 minutes.
- (2) Radio call signs and frequencies..
  - (a) Observer site Avalanche Control Point 1—Avalanche Alfa, AN/GRC-26; CAMP DESERT ROCK—Avalanche Bravo, AN/GRC-26; Project 50.8—Avalanche Charlie, AN/GRC-19; and Project 50.3—Avalanche Delta, AN/GRC-9. Frequency is 3285 KC AM. NCS is station at observer location 1. Appendix 1, Avalanche Net.
  - (b) Hilltop Net.—CP-1 Hilltop 61, Motorola-Type Handy-Talkie; Project 50.3—Hilltop 81, Motorola-Type Handy-Talkie; Desert Rock Forward Switchboard—Hilltop 30, AN/VRC-19. NCS is station at CP-1. Appendix 2, Hilltop Net.

b. Wire communications.

- (1) Forward.—Appendix 3, Wire Circuits System 1.
  - (a) Line 1.—One wire circuit from Room 223, CP-1, to Desert Rock Forward Switchboard to be terminated on field telephones (TA 43's) at each end.
  - (b) Line 2.—One wire circuit from CP-1, picked up at NEWS NOB terminals, to connect into the telephone system, to monitor "COUNT DOWN" and H-hour announcements.
  - (c) Line 3.—One wire circuit from radio site to CP-1 to radio site at Desert Rock forward switchboard area to be used to get Avalanche Net on the air and to serve as a back-up for Line 1.
  - (d) Line 4.—One wire circuit to serve as a spare back-up for all.
  - (e) Line 5.—One short wire circuit from Room 223, CP-1 to radio van just outside CP-1 to provide communications into Avalanche Net.
- (2) Rear.—Appendix 4, Wire Circuits Systems 2. Project 50.3, Project 50.8, and the Decontamination Station will be connected by wire direct to Desert Rock forward switchboard.

Appendixes: 1—Avalanche Net  
2—Hilltop Net  
3—Wire Circuits System 1  
4—Wire Circuits System 2

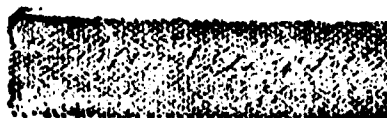
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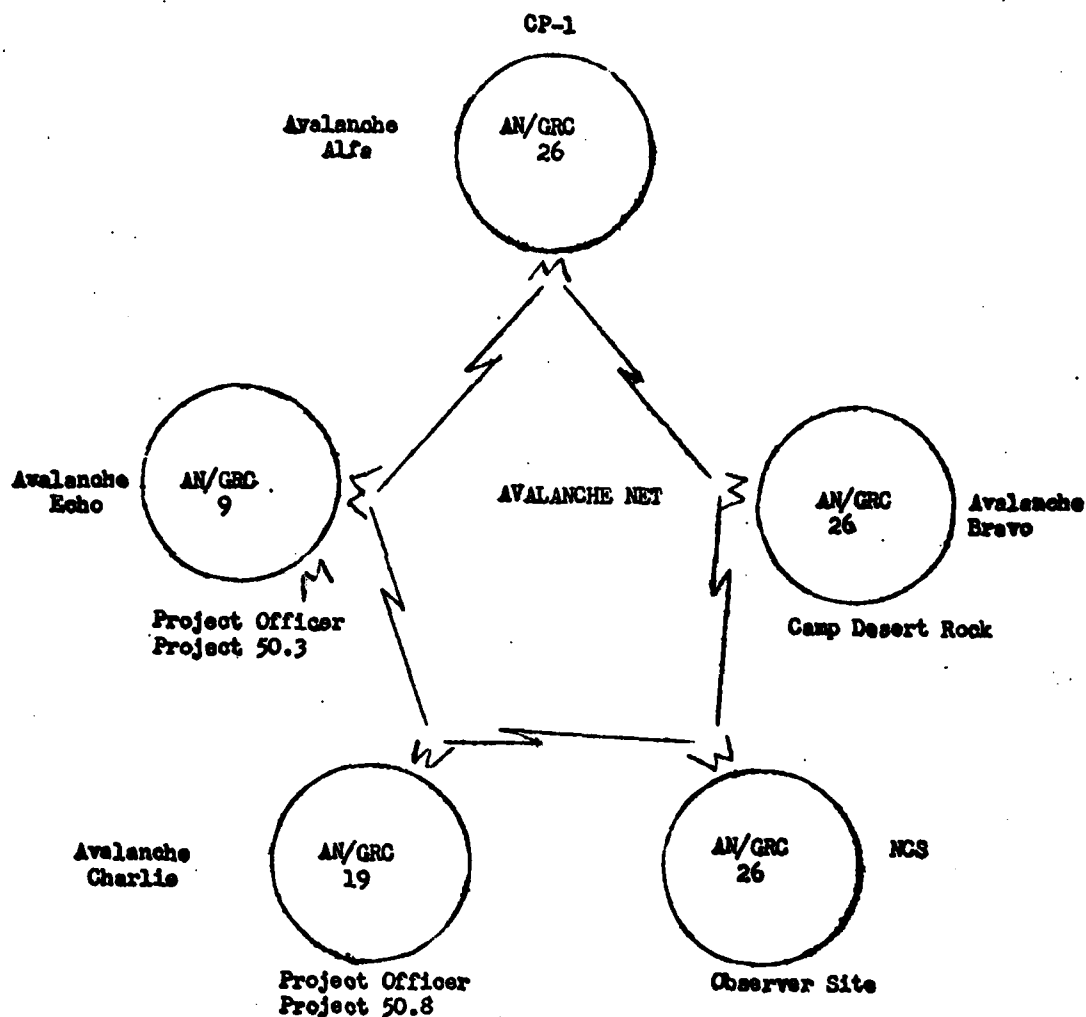


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181 July 1957

Appendix 1 (Avalanche Net) to Annex F (Signal) to Opn O 12

Map: NEVADA, 1:50,000, TIPPIPAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.



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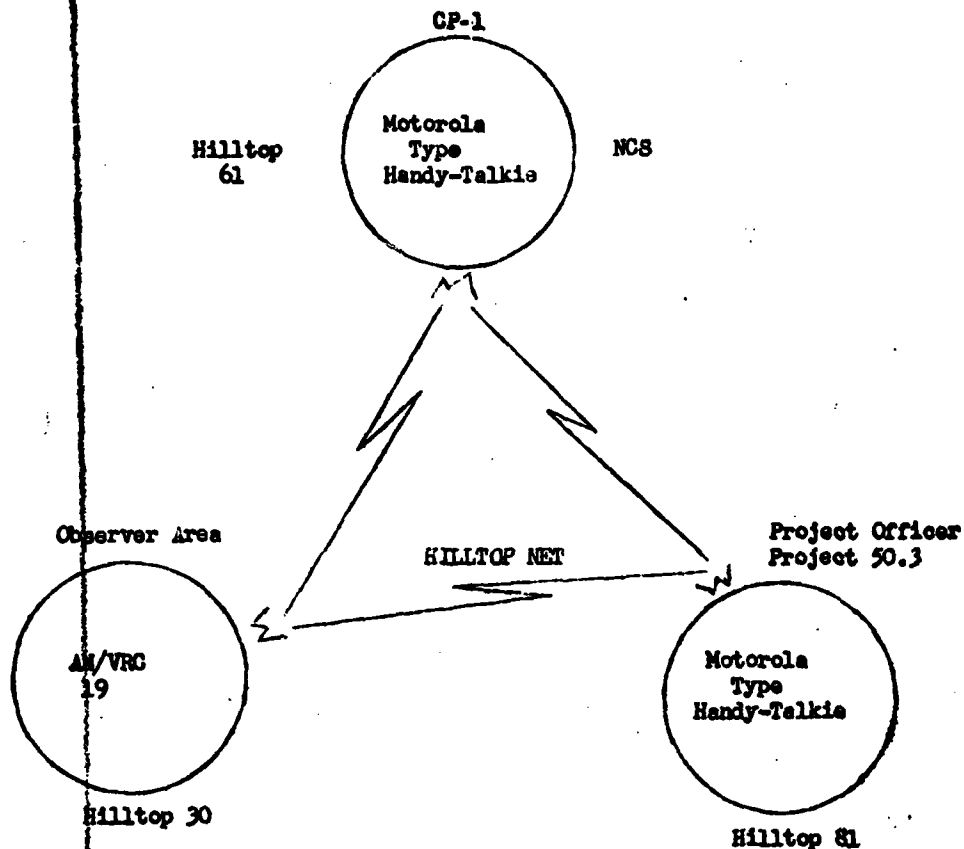
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Hq, 1186 Desert Rock VII & VIII  
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Appendix 2 (Hilltop Net) to Annex F (Signal) to Opn O 12

Map: NEVADA, 1:50,000, TIPPICAH SPRING, CAME SPRINGS, SPECTOR RANGE, PAPOOSE  
LAKE, FRENCHMAN LAKE, and MERCURY Sheets.



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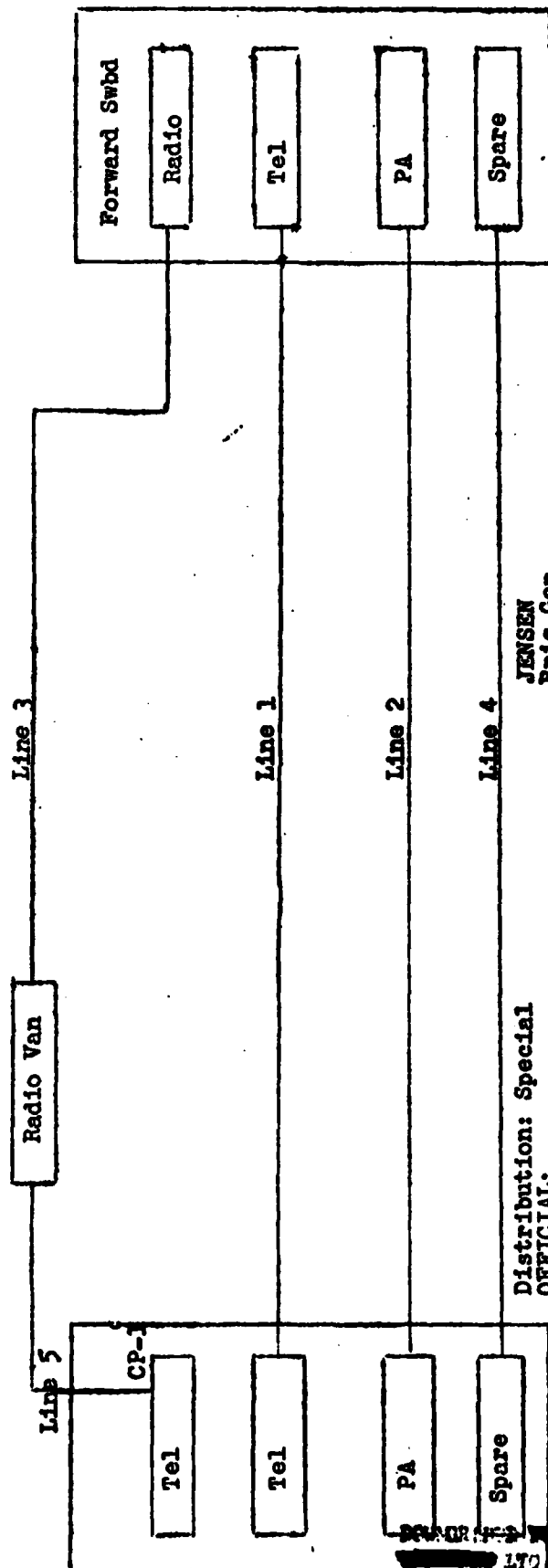
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Appendix 3 (Wire Circuits System 1) to Annex F (Signal) to Opn 0 12

Map: NEVADA, 1:50,000, TIPPIPAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE,  
 and MERCURY SHEETS.



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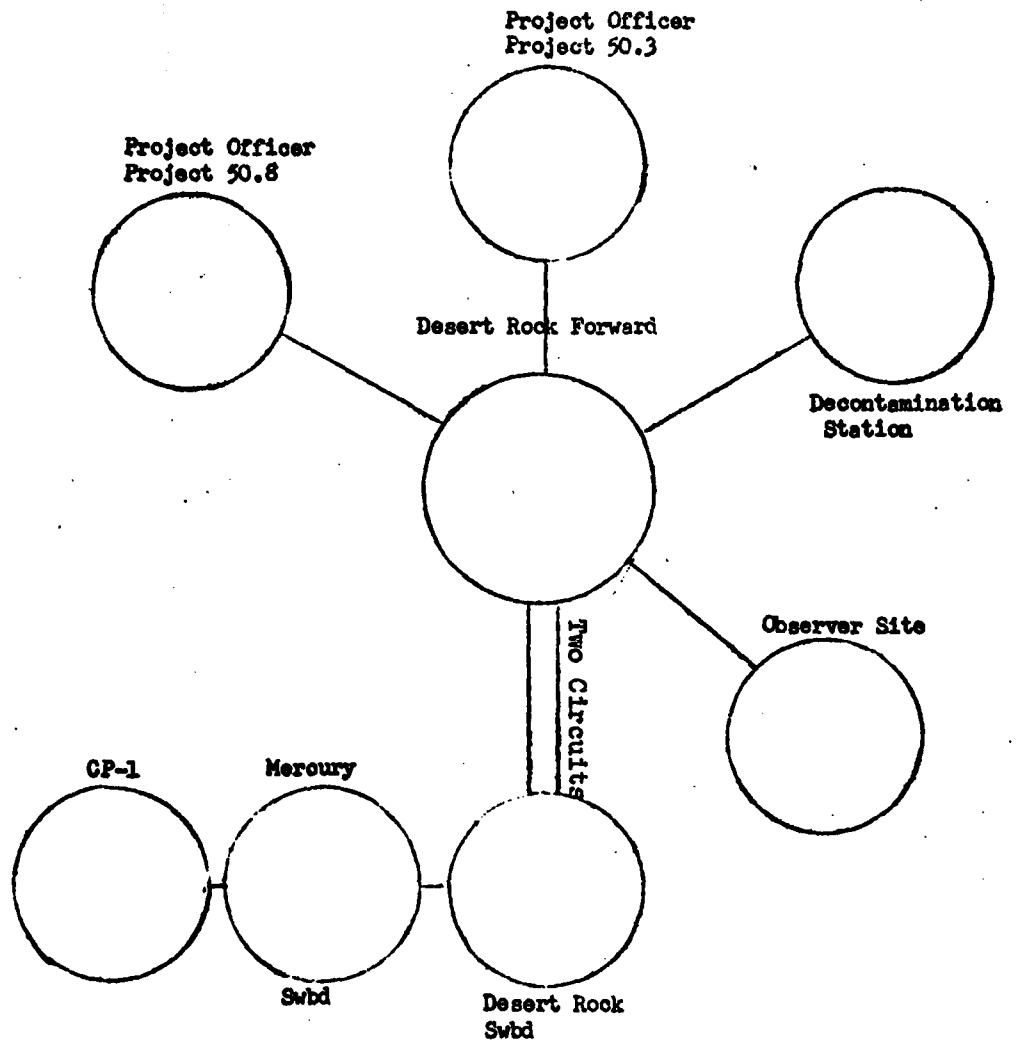
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Hq. Exercise Desert Rock VII & VIII  
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181000 July 1957

Appendix 4 (Wire Circuits System 2) to Annex F (Signal) to Opn 0 12

Map: NEVADA, 1:50,000, TIPPIPAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.



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Annex G (Transportation) to Operation Order 12

Map: NEVADA, 1:50,000, TIPPIPAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

1. ORGANIZATION.--Motor vehicle convoy will be organized into one (1) march unit under the command of the Motor Officer, CAMP DESERT ROCK, Appendix 1, Convoy Organization.

2. MISSION.--To transport designated personnel from CAMP DESERT ROCK to the observer area in the NEVADA TEST SITE and return by motor vehicle.

3. EXECUTION.

a. Movement will be accordance with schedule listed in Appendix 2, March Table. Return movement will be as directed by the Control Group Commander.

b. Vehicle parking area will be as indicated in Annex B, Opn Overlay.

c. Coordinating instructions.

(1) March unit commander will secure approval from the S-3, Exercise Desert Rock VII & VIII, or his representative prior to movement to the forward area.

(2) Provost Marshal will provide the necessary route marking and traffic control.

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Appendixes: 1--Convoy Organization  
2--March Table

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Appendix 1 (Convoy Organization) to Annex G (Transportation) to Opn O 12

VEHICLE ROSTER (KEPLER)

Convoy Commander -

1st March Unit

A-1 - 1/4-ton truck (Cmdr:	A-10 - 37-Pass Bus
A-2 - 37-Pass Bus	A-11 - 37-Pass Bus
A-3 - 37-Pass Bus	A-12 - 29-Pass Bus
A-4 - 37-Pass Bus	A-13 - 29-Pass Bus
A-5 - 37-Pass Bus	A-14 - 29-Pass Bus
A-6 - 37-Pass Bus	A-15 - 29-Pass Bus
A-7 - 37-Pass Bus	A-16 - 29-Pass Bus
A-8 - 37-Pass Bus	A-17 - 37-Pass Bus (Empty)
A-9 - 37-Pass Bus	A-18 - Ambulance

2nd March Unit

B-1 - 1/4-ton truck (Cmdr:	B-10 - M-52
B-2 - M-52	B-11 - M-52
B-3 - M-52	B-12 - M-52
B-4 - M-52	B-13 - M-52
B-5 - M-52	B-14 - M-52
B-6 - M-52	B-15 - Bob Tail M-52
B-7 - M-52	B-16 - Ambulance
B-8 - M-52	B-17 - Wrecker
B-9 - M-52	B-18 - Wrecker
	B-19 - 1/4-ton truck

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## Appendix 2 (March Tables) to Annex G (Transportation) to Opn O 12

Map: NEVADA, 1:50,000, TIPPICAH SPRING, CAME SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

## MARCH TABLE (KEPLER)

1st March Unit

Rate	Type	TL	Critical Points	ETA	Latest Clearance
20MPH	C	5	IP	0055	0100
20MPH	C	5	Mer Ck Pt 2	0108	0113
35MPH	O	5	Frenchman Flat RJ	0125	0130
35MPH	O	5	CP #4	0147	0152
35MPH	O	5	BM 4029	0157	0202
10MPH	C	5	Parking Area	0225	0230

2d March Unit

Rate	Type	TL	Critical Points	ETA	Latest Clearance
20MPH	C	5	IP	0110	0115
20MPH	C	5	Mer Ck Pt 2	0123	0128
35MPH	O	5	Frenchman Flat RJ	0140	0145
35MPH	O	5	CP #4	0202	0207
35MPH	O	5	BM 4029	0212	0217
10MPH	C	5	Parking Area	0240	0245

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Page 1 of 3 pages

Annex H (Project 50.8 Locations) to Opn 0 #12

SITE	*COORDINATES	AREA (SQ YDS)	NO of PERSONNEL	NET CALL WORD	FREQ (MC)	TYPE MODE	EQUIPMENT TO BE USED	HRS OPN FROM TO
G-1	NL700998	10,000	14	WOLLOW 1	27.4	FM	1-AN/GMD-1A Radio D1r Finder	H-6 H/6
G-2	NL750784	10,000	14	WOLLOW 2	27.4	FM	1-AN/GMD-1A Radio D1r Finder	H-6 H/6
G-3	NL025620	10,000	14	WOLLOW 3	27.4	FM	1-AN/GMD-1A Radio D1r Finder	H-6 H/6
G-4	NL758794	15,000	30	EMPRESS 13	35.8	FM	1-AN/MPQ-21 Radar C Band H-1 1-AN/MPQ-21 Radar S Band H-1	H/2 H/2
G-5	NL801936	1,000	18	EMPRESS 11 EMPRESS 12	35.8	FM	2-AN/MPQ-10 Radar	H-1 H/2
G-6	**PL279202	25	2	ELDORADO 6	30.6	FM	1-AN/GAS-1 IR Detector 1-AN/ASH-4 IR Detector	H-1 H/1 H/1 H/1
G-7	NL897886	100	4	ELDORADO 2	30.6	FM	1-AN/TVS-1 Camera 1-BC Scope, M-65	H-1 H/1 H/1 min H/1
G-8	NL868872	100	4	ELDORADO 3	30.6	FM	1-AN/TVS-1 Camera 1-BC Scope, M-65 1-AN/ASH-4 IR Detector	H-1 H/1 H/1 min H/1 H-1 H/1
G-9	NL829900	100	4	ELDORADO 4 EMPRESS 31	30.6 35.8	FM FM	1-AN/TVS-1 Camera 1-BC Scope, M-65	H-1 H/1 H/1 min H/1
G-10	NL785940	100	4	DECLASSIFIED LFO APCR-83 354.15 25 July 57	30.6	FM	1-AN/TVS-1 Camera 1-BC Scope, M-65	H-1 H/1 H/1 min H/1

FILE

\*COORDINATES

(SO YDS)

PERSONNEL

NET CAL WORD

FREQ (MC)

TYPE MODE

EQUIPMENT TO BE USED

FROM

TO

DOWNLOADED

NO of

FREQ (MC)

TYPE MODE

EQUIPMENT TO BE USED

FROM

TO

G-11

NL768944

10,000

15

EMPRESS 1

35.8

FM

Btry CP - Fld Kitchen

H-24

H/40

G-12

NL809009

160,000

20

(H hr YARDARM 1

37.2

FM

NONE

H-3

H/48

G-13

NL898873

10,000

50

HANNIBAL 2

4.96

AM

1-M33 Track Radar #2

H-4

H/46

HANNIBAL 3

4.96

AM

1-M33 Acq Radar #2

H-4

H/46

BUCKSAW

309.6

AM

1-M33 Acq Radar #1

H-4

H/46

G-14

NL752048

5,000

25

HANNIBAL 1

4.96

AM

1-M33 Track Radar #1

H-4

H/46

G-15

\*PL185510 (Indian Springs AFB)

1000

10

HANNIBAL 4

4.96

AM

1-M33 Acq Radar #1

H-4

H/46

G-16

NL960915

500

25

EMPRESS 21

35.8

FM

1-M33 Acq Radar #2

H-1

H/1

G-19

NL650904

5,000

9

YARDARM 8

35.8

FM

1-M33 Acq Radar #1

H-12

H/48

G-23

NL740114

2500

5

HANNIBAL 6

4.96

AM

1-M33 Acq Radar #1

H-4

H/46

G-24

NL843920

5000

25

HANNIBAL 5

4.96

AM

1-M33 Acq Radar #1

H-4

H/46

DOWNLOADED

NO ACIR-53 35.15 25.17

1-NIKE AJAX TTR  
1-NIKE AJAX ACQ Radar  
1-NIKE AJAX MTR  
1-17F SET (Trans) 1030mc  
(Rec) 1090mc

Page 3 of 3 pages

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\* Map - Nevada Proving Ground - Scale 1:50,000 - unless otherwise specified  
\*\* Map - Nevada Proving Ground - Scale 1:250,000

Note 1 - See Appendix 2 (Radiosonde Req) to Annex A (Operation Site Data) to Opn O 2, Hq, Project 50.8, dated 19 June 1957

Note 2 - See Appendix 1 (Radar Req) to Annex A (Operational Site Data) to Opn O 2, Hq, Project 50.8, dated 19 June 1957

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Annex I (Emergency Evacuation Plan) to Operation Order 12

Map: NEVADA, 1:50,000, TIPPIPAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

1. PURPOSE.--To outline the procedure to be followed to accomplish the total evacuation of the NEVADA TEST SITE in case of emergency.
2. EXECUTION.--Personnel will be prepared to execute a total evacuation of the forward area at any time on D-day.

a. Evacuation will be by march unit to the south in the following order:

- (1) Retrace route back to Mercury Highway then south.
- (2) AEC Gate Nr 4 (coordinates 845902).
- (3) Decontamination Station (coordinates 848888).
- (4) Check Gate Nr 2, Camp Mercury (coordinates 914605).
- (5) Camp Desert Rock motor pool (coordinates 872537).

b. March unit commanders will be responsible for the movement of their vehicles during the evacuation and for maintaining the proper march discipline. Order to entruck and move out will be given by the Control Group Commander.

c. Vehicle escort officers will be responsible for the orderly loading and movement of their groups on order of the march unit commander.

d. Following procedure will be observed in the observer areas:

- (1) Provost Marshal will report for orders to the Control Group Commander.
- (2) Observer personnel will assemble on order and entruck in vehicles under the supervision of the vehicle escort officer.
- (3) Control Group will assemble directly behind the control area and entruck on order of the Control Group Commander.
- (4) Vehicles will be dispatched from the parking area by the serial commander in march unit order to the entrucking area on order of the Control Group Commander.
- (5) Control Group will evacuate the test area on order of the Deputy Exercise Director or his representative when it is assured that all other Desert Rock troops have been evacuated.

e. Project personnel will be evacuated by the project officer when ordered to do so by the Control Group Commander.

f. Coordinating instructions.

- (1) Maximum vehicle speed will be 55 MPH.
- (2) March units will remain intact during all movements.
- (3) MP vehicles and ambulances will have road priority during evacuation.
- (4) Necessary decontamination will be effected as soon as possible upon reaching the designated place of safety.

Annex I (Emergency Evacuation Plan) to Operation Order 12, Cont'd.

- (5) Code designation to implement this plan is **CONDITION THUNDER**.
- (6) **CONDITION THUNDER** will be transmitted by the most readily available means and will be authenticated by the Post Rad-Safe Officer.
- (7) **CONDITION THUNDER** will be announced in the observer area by seven short siren blasts with 30-second intervals between groups. All means of communications will be used to reach all Desert Rock personnel.
- (8) Windows in vehicles will be closed when practical.
- (9) Individuals will refrain from eating or smoking during the evacuation.

### 3. MEDICAL EVACUATION.

- a. Aid station will treat casualties, if any, to the limit of its capability. When observer area is evacuated, aid station will move with the Control Group.
  - b. Ambulances will evacuate casualties to the Hospital Unit at **CAMP DESERT ROCK**. Ambulances will have road priority.
  - c. Route of evacuation for casualties will be the most direct route available.
4. **COMMAND.**—Forward CP, Exercise Desert Rock VII & VIII, will control the evacuation from such location as affords the best control, but will not evacuate the forward area until all Desert Rock groups are accounted for. New CP location will be announced prior to movement in each case.

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CAMP DESERT ROCK (872536), NEVADA  
181000 July 1957

Annex J (Distribution List) to Operation Order 12

UNITS	COPY NR
CG, US CONARC, Attn: G3	1-4
CG, Sixth US Army, Attn: G3	5-6
CG, Sixth US Army, Attn: PIO	7
Comdr, Fld Comd, AFSWP, Mercury	8-13
CG, Camp Irwin, Attn: G3	14-16
Executive Officer, Camp Desert Rock	17
S-1, Camp Desert Rock	18
S-2, Camp Desert Rock	19
S-3, Camp Desert Rock	20-24
S-4, Camp Desert Rock	25
Hq Comdt, Camp Desert Rock	26
Sig Off, Camp Desert Rock	27
FM, Camp Desert Rock	28
Chemical Off, Camp Desert Rock	29
Engr, Camp Desert Rock	30
PIO, Camp Desert Rock	31
Chief, Instructor Group Section, Camp Desert Rock	32
CO, 26th TC Bn	33
CO, Hosp Unit, 8th Field Hospital	34
CO, 232d Sig Co	35
CO, 50th Chemical Flt	36
Post Aviation Off	37
Project Off, Project 50.3	38
Project Off, Project 50.8	39
Project Off, Project 53.3	40
AG File Copy	41

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