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EXERCISE DESERT ROCK LAS VEGAS NV
EXERCISE DESERT ROCK VII AND VIII, OPERATION ORDER NUMBER 9. AR--ETC(U)
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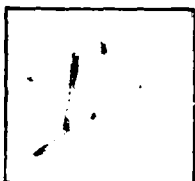
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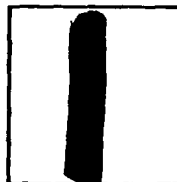
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HQ Exercise DESERT ROCK VII & VIII
Camp DESERT ROCK, Nevada
Operation Order 9
DOCUMENT IDENTIFICATION

July 1957

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Exercise

~~EXERCISE~~ DESERT ROCK 7 & 8, OPERATION ORDER 9

Army. Camp Desert Rock. Nevada

8 July 1957

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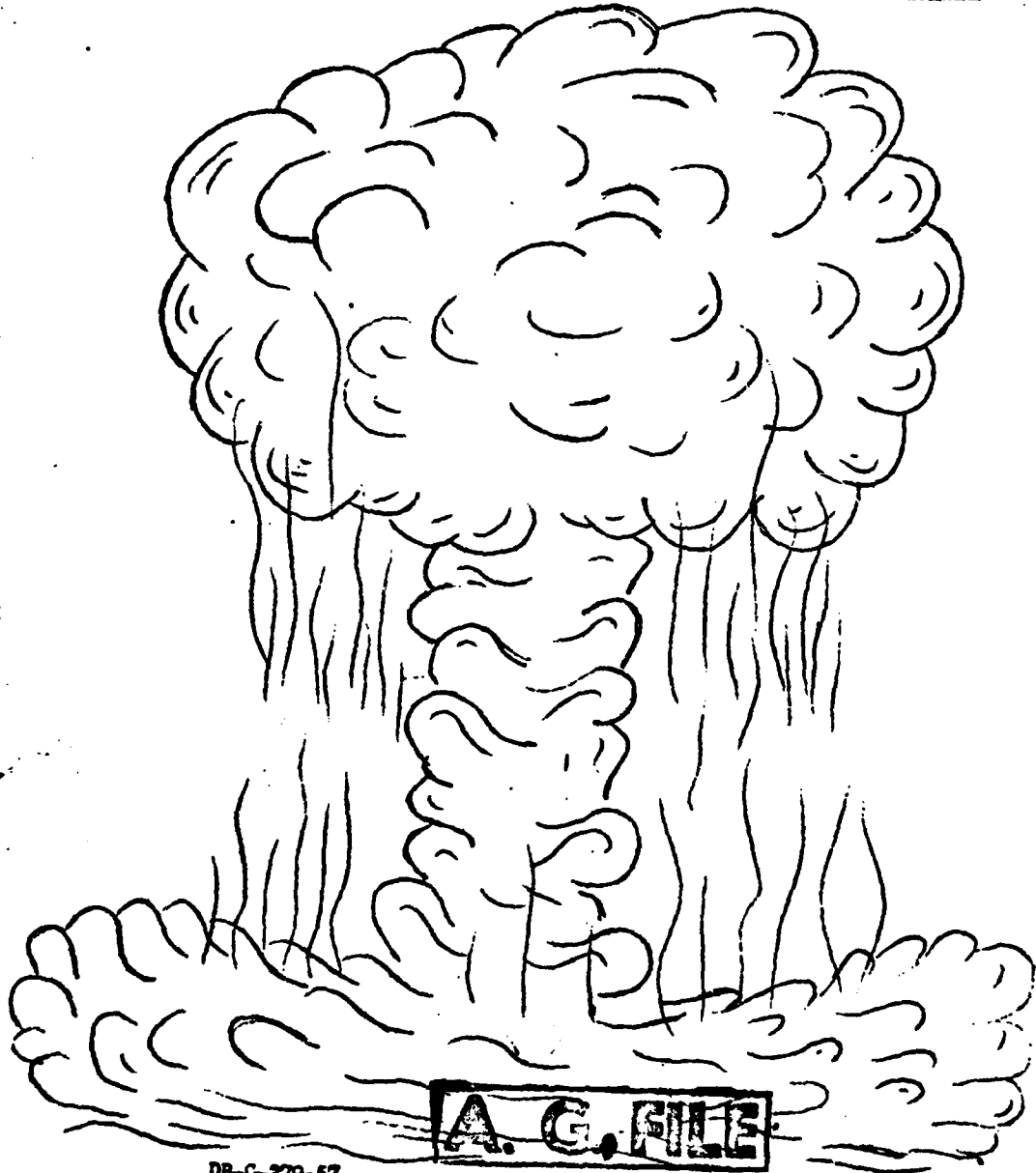
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Desert Rock VII & VIII



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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Operation Order 9

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 (DIABLO) at H-hour on D-day which will be observed by approximately 400 observers. After the shot personnel will monitor in the ground-zero area, and Signal and Artillery radar sets will be operated.

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

a. Indoctrinate selected observers in effects 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).

d. Conduct monitoring exercises to train passive-defense personnel in radiological defense (Project 53.4).

3. **EXECUTION.**

a. **Concept of operation.**—Observers will observe shot DIABLO from trenches (Annex B Opn Sketch). No equipment display will be used with shot Diablo. Shortly after the shot, Desert Rock red-safe personnel will monitor a 360° area around ground zero, mark critical areas and check the route to the HQCD equipment display area. Upon announcement of R-hour, observers will move from the trench area for a post shot inspection of the HQCD equipment display area. 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. Project 53.4 will conduct monitoring exercises in the ground-zero area under supervision of Desert Rock red-safety personnel.

b. **50th Chemical Flt.**—Provide red-safety support as required. Annex C, Red-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.

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COMPLETION OF SHOT DIABLO

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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Operation Order 9

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

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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).

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d. Conduct monitoring exercises to train passive-defense personnel in radiological defense (Project 53.4).

3. **EXECUTION.**

a. **Concept of operation.**--Observers will observe shot DIABLO from trenches (Annex B Opn Sketch). No equipment display will be used with shot Diablo. Shortly after the shot, Desert Rock rad-safe personnel will monitor a 360° area around ground zero, mark critical areas and check the route to the HODD equipment display area. Upon announcement of R-hour, observers will move from the trench area for a post shot inspection of the HODD equipment display area. 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. Project 53.4 will conduct monitoring exercises in the ground-zero area under supervision of Desert Rock rad-safe personnel.

b. **50th Chemical Flt.**--Provide rad-safety 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.

ENTIRE OPN O MAY BE DOWNGRADED
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COMPLETION OF SHOT DIABLO

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Operation Order 9, Cont'd.

- 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.
- i. Project 50.3.--Operate radar equipment (1--MPG-1, 1--CPS-9, 1--TPS-1D, and 1--APQ-13) as per par 2b above from approved site in the vicinity of coordinates 893872; only equipment approved during power dry run will be operated; all other equipment will be completely secured.
- j. Project 51.4.--Move tactical vehicles (10) to Desert Rock Decontamination Station (coordinates 848888) with Desert Rock rad-safe vehicles (7) on D-1; move personnel to observer area with other observers (Annex G, Transportation); observe shot; after H-hour and when ordered to do so move along assigned route (Annex B, Opn Overlay) to Marine Equipment-display area; conduct monitoring exercises.
- k. 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 MTS and fly a race-track course 15 miles N of GZ at an altitude of 15,000 ft 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 C-10 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 the 5 r/hr line for ground and 100 r/hr line for air; four helicopters will be positioned at the air strip on YUCCA LAKE on D-1 day and will operate from that site, flying at an altitude of two hundred feet, after clearing each flight with the AOC at CP-1 by radio; three 1/4-ton trucks and helicopters will take readings at specified checkpoints, transmitting such readings by radio to the control point located at Site C-2. Flight boundaries Annex B, Opn Overlay.
- l. 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.
- m. Coordinating instructions.
 - (1) H-hour is 0440 hours. Because of nature of device all personnel in vicinity of DIABLO trenches will be in trenches not later than H-2 hours.
 - (2) No lights except flash lights will be used in the DIABLO trench area after H-2 hours.
 - (3) Unit commanders will insure that all Desert Rock personnel have film badges.
 - (4) All personnel will be familiar with provisions of the Rad-Safe Program.
 - (5) 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

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Operation Order 9, Cont'd.

- 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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- k. 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.

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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 DOD 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.

(6) 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.

(7) All personnel will be cautioned not pick up any items in the ground-zero area. Although innocent in appearance these items may be radioactive.

(8) 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.

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

(10) 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
Helmet w/liner	Special equipment as required
Gas mask or dust respirator for personnel in trenches	

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

b. Logistics.

(1) Medical.—Aid station will be established at trench area (coordinates 807076). 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) Each 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 last march unit. Vehicles which break down 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.

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IDENTITY

5. COMMAND AND SIGNAL.

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

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

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Operation Order 9, Cont'd.

(e) Traffic restrictions preclude use of the MERCURY HIGHWAY subsequent to 0300 hours on D-day. The last vehicle of the last convoy will clear the MERCURY HIGHWAY and close in the vehicle parking area by 0240 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 trench area at H-3 hours.

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Brig Gen

Annexes: A--Task Organization
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Distribution: Special

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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Annex A (Task Organization) to Operation Order 9

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

HQ, EXERCISE DESERT ROCK VII & 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 (GI 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)
36th TC Co (Hv)
351st TC Co (Med)
TC Provisional Aircraft Maint Det

DESERT ROCK PROJECTS

Project 50.2, US Army and AFSWP Observers
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
Project 53.4, Radiological Defense Training

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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Annex A (Task Organization) to Operation Order 9

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

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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 50.2, US Army and AFSWP Observers
Project 50.3, Evaluation Medium Range Detonation and Cloud Tracking System
Project 50.8, Troco Test of Atomic Burst Equipment
Project 53.3, ADC Air Crew Observers
Project 53.4, Radiological Defense Training

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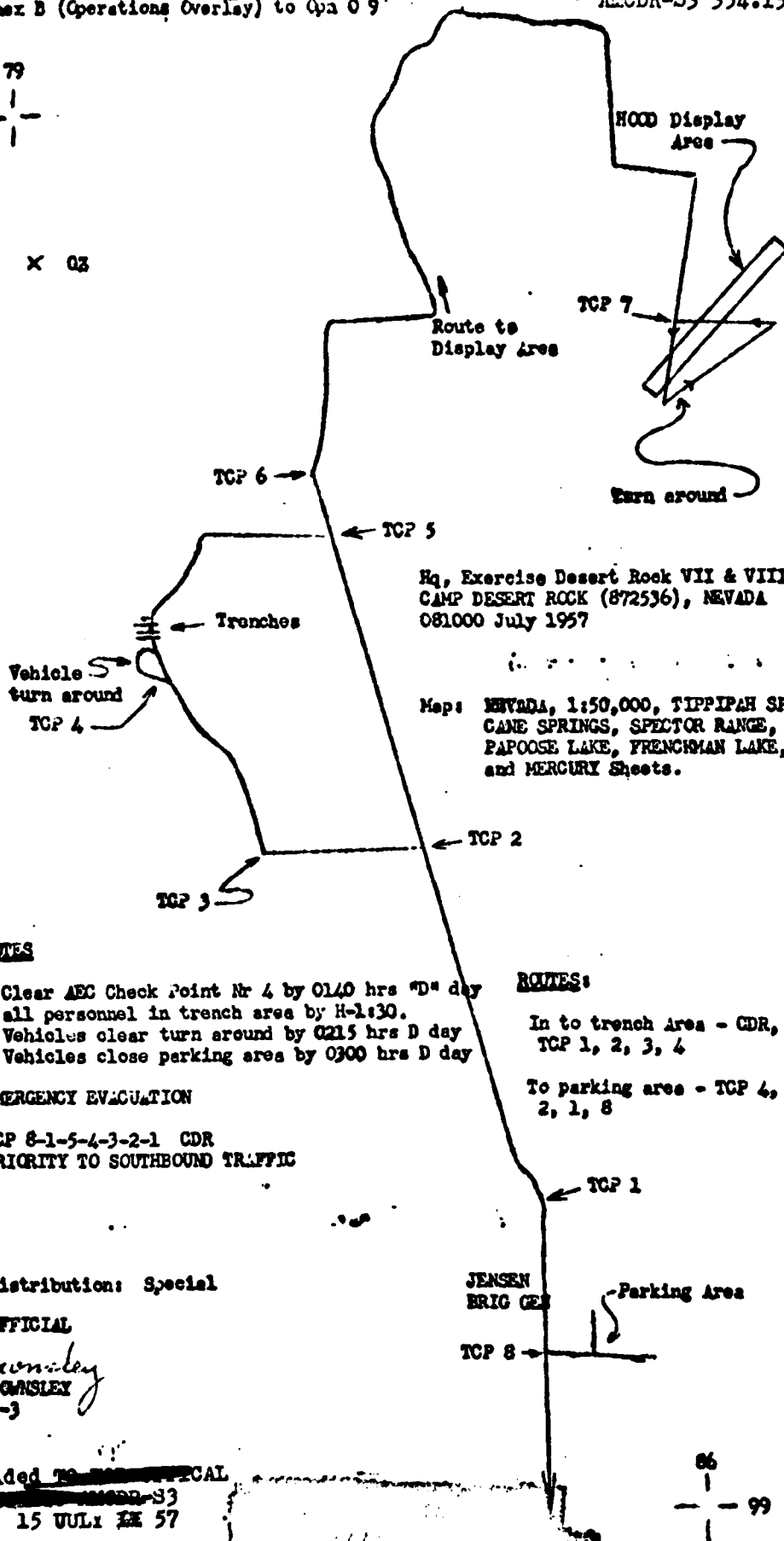
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CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

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

NOTES

Clear AEC Check Point Nr 4 by 0140 hrs "D" day
all personnel in trench area by H-1:30.
Vehicles clear turn around by 0215 hrs D day
Vehicles close parking area by 0300 hrs D day

EMERGENCY EVACUATION

TCP 8-1-5-4-3-2-1 CDR
PRIORITY TO SOUTHBOUND TRAFFIC

ROUTES:

In to trench Area - CDR,
TCP 1, 2, 3, 4

To parking area - TCP 4, 3,
2, 1, 8

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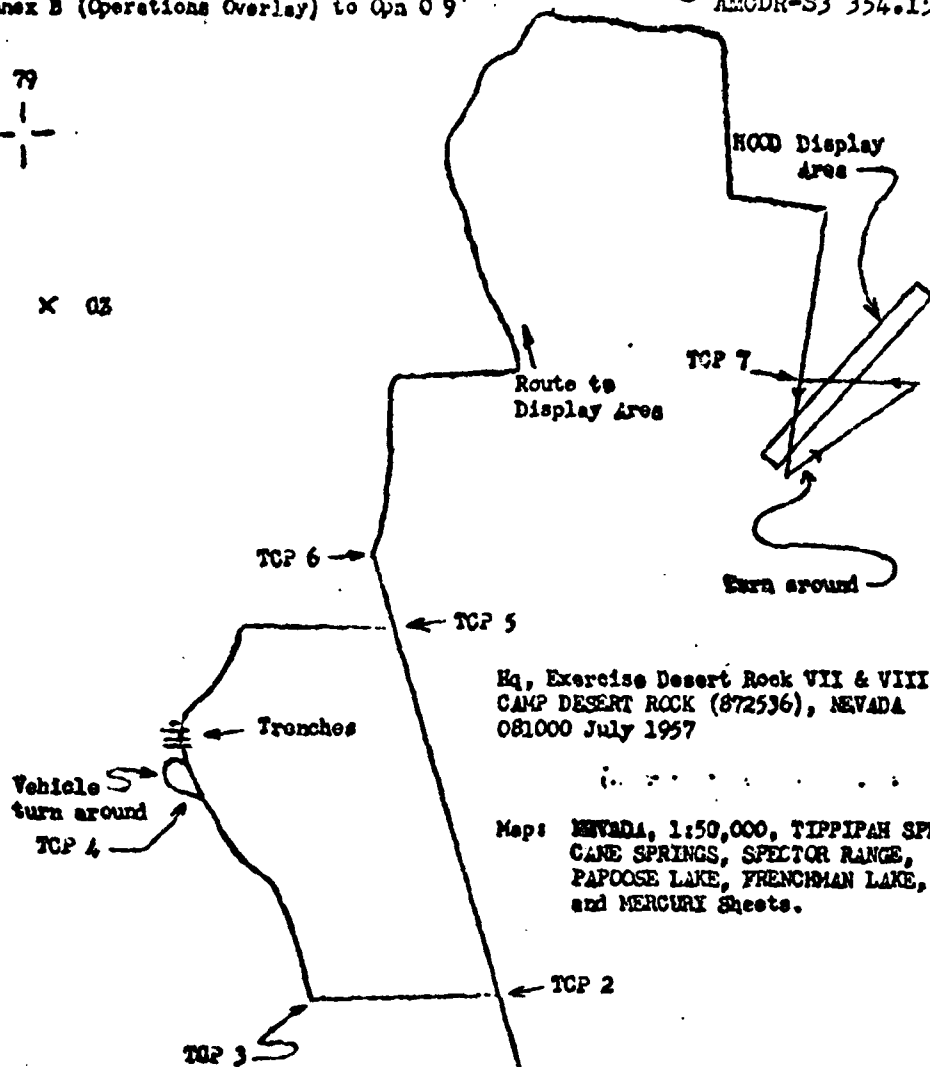
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Annex B (Operations Overlay) to Opa 09

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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Maps: NEVADA, 1:50,000, TIPPICAH SPRING,
CANE SPRINGS, SPECTOR RANGE,
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PRIORITY TO SOUTHBOUND TRAFFIC

ROUTES:

In to trench area - CDR,
TCP 1, 2, 3, 4

To parking area - TCP 4, 3,
2, 1, 8

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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Annex C (Rad-Safety Plan) to Opn O 9

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

1. SITUATION.—See Opn O 9.

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 trench areas.—50th Cml Plat (Svc) provides one motorized, radio-equipped RAD-SAFE monitor team to monitor the area and to assist in the emergency evacuation of the area should it be required.

b. Survey of equipment-display area.

(1) 50th Cml Plat (Svc) provides one (1) motorized, radio-equipped RAD-SAFE monitor team.

(2) After detonation of the atomic device and upon order of the Rad-Safety Officer, RAD-SAFE monitor team and MP TCP Nr 7 will proceed forward from the vehicle revetment in the trench area and monitor route to display area.

(3) RAD-SAFE monitor team will monitor the display area, marking the 20 mr/hr line with yellow, metal fabricated cones. MP TCP 7 will establish itself outside the 20 mr/hr line and direct traffic. (See Annex B).

(4) RAD-SAFE teams will notify the Rad-Safety Officer of their survey data as it is determined.

(5) Observer participants will be transported from the trench area to the display area after the Test Director has announced R-hour and after the Rad-Safety Officer has evaluated the preliminary survey conducted by the RAD-SAFE monitors.

c. Monitor exercise.—Project 53.4 monitor teams will be released from the 50th Cml Plat (Svc) Decontamination Station and guided to the shot area by a RAD-SAFE representative. Area to be used for monitoring will be coordinated with the DOD Desert Rock Liaison Officer. Teams will establish predetermined dose-rates but not to exceed 5 r/hr, situation permitting. Survey readings will be reported to a control point established in the vicinity of the 10mr/hr line. A RAD-SAFE representative will be located at the control point to enforce established safety criteria and to provide technical assistance when required.

d. Dosimetry.—See Memo Nr 8, this headquarters.

e. Personnel monitoring and field decontamination.—All vehicles and personnel entering the trench and equipment display area after shot time, will be monitored by the 50th Cml Plat (Svc) prior to return to Camp. For procedures, see Memo Nr 9, this headquarters.

f. Coordinating instructions.

(1) All personnel in the trench area will enter trenches at H-15 minutes on order of the Control Group Commander. When given the command to crouch down, individuals will face to the right, crouch down, close and cover their

Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Annex C (Rad-Safety Plan) to Opn 09

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

1. SITUATION.—See Opn 09.

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 trench areas.—50th Cml Plat (Svc) provides one motorized, radio-equipped RAD-SAFE monitor team to monitor the area and to assist in the emergency evacuation of the area should it be required.

b. Survey of equipment-display area.

(1) 50th Cml Plat (Svc) provides one (1) motorized, radio-equipped RAD-SAFE monitor team.

(2) After detonation of the atomic device and upon order of the Rad-Safety Officer, RAD-SAFE monitor team and MP TCP Nr 7 will proceed forward from the vehicle revetment in the trench area and monitor route to display area.

(3) RAD-SAFE monitor team will monitor the display area, marking the 20 mr/hr line with yellow, metal fabricated cones. MP TCP 7 will establish itself outside the 20 mr/hr line and direct traffic. (See Annex B).

(4) RAD-SAFE teams will notify the Rad-Safety Officer of their survey data as it is determined.

(5) Observer participants will be transported from the trench area to the display area after the Test Director has announced R-hour and after the Rad-Safety Officer has evaluated the preliminary survey conducted by the RAD-SAFE monitors.

c. Monitor exercise.—Project 53.4 monitor teams will be released from the 50th Cml Plat (Svc) Decontamination Station and guided to the shot area by a RAD-SAFE representative. Area to be used for monitoring will be coordinated with the DCD Desert Rock Liaison Officer. Teams will establish predetermined dose-rates but not to exceed 5 r/hr, situation permitting. Survey readings will be reported to a control point established in the vicinity of the 10mr/hr line. A RAD-SAFE representative will be located at the control point to enforce established safety criteria and to provide technical assistance when required.

d. Dosimetry.—See Memo Nr 8, this headquarters.

e. Personnel monitoring and field decontamination.—All vehicles and personnel entering the trench and equipment display area after shot time, will be monitored by the 50th Cml Plat (Svc) prior to return to Camp. For procedures, see Memo Nr 9, this headquarters.

f. Coordinating instructions.

(1) All personnel in the trench area will enter trenches at H-15 minutes on order of the Control Group Commander. When given the command to crouch down, individuals will face to the right, crouch down, close and cover their

eyes with one arm and remain in this position until the shock wave has passed. Individuals will have trousers tucked securely in boot tops; sleeves and collars will be buttoned to keep out the dust.

(2) Observers not in trench area and who do not have 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.

(3) Protective field masks or dust respirators are required for all personnel in the trench area and will be donned if breathing becomes difficult due to excessive dust or if ordered to do so. All personnel will fit and test their protective field masks before going to the forward area.

(4) When personnel are in the equipment display area, they will obey instructions on movement through the area and abstain from touching demonstration equipment or picking up or retaining any object for a souvenir.

(5) 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.

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

(7) Vehicles other than those belonging to Rad-Safe will not enter display area where intensities are 20 mr/hr or greater, unless approval is obtained from RAD-SAFE Officer or his representative.

(8) All personnel will evacuate the equipment display area and return to their transportation if at any time they see red smoke.

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

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

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

(12) 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 driver and one monitor, both trained as radio operators.

b. Three (3) 1/4-ton monitor vehicles and necessary equipment will be moved from the Decontamination Station to the trench area late on D-1 day and placed in assigned revetment.

c. Project 53.4 vehicles and equipment will be parked at the Decontamination Station the afternoon of D-1 day.

d. Pocket chamber dosimeters will be issued on the following basis:

(1) One (1) per VIP.

(2) One (1) per monitor team.

e. Radisc survey meters will be issued on the following basis:

(1) AN/PDR-TIB.

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eyes with one arm and remain in this position until the shock wave has passed. Individuals will have trousers tucked securely in boot tops; sleeves and collars will be buttoned to keep out the dust.

(2) Observers not in trench area and who do not have 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.

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(5) 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.

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

(7) Vehicles other than those belonging to Rad-Safe will not enter display area where intensities are 20 mr/hr or greater, unless approval is obtained from RAD-SAFE Officer or his representative.

(8) All personnel will evacuate the equipment display area and return to their transportation if at any time they see red smoke.

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

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(12) 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.

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(1) One (1) per VIP.

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e. Radisc survey meters will be issued on the following basis:

(1) AN/PDR-TIB.

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Annex C (Rad-Safety Plan) to ~~Security Control~~

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(a) Two (2) per RAD-SAFE monitor team.

(b) Two (2) per Decontamination Station.

(2) AN/PDR-27A

(a) Four (4) per Decontamination Station.

(b) One (1) per Personnel and Vehicle Monitor.

f. 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-T1B	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

g. Uniform as prescribed.

5. COMMAND AND SIGNAL.

a. Rad-Safety Officer will be located at the Command trench.

b. See Appendix I for radio call signs, frequencies, and RAD-SAFE Control Net.

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Appendixes: 1--Rad-Safe Control Net

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(a) Two (2) per RAD-SAFE monitor team.

(b) Two (2) per Decontamination Station.

(2) AN/PDR-27A

(a) Four (4) per Decontamination Station.

(b) One (1) per Personnel and Vehicle Monitor.

f. Minimum equipment list for RAD-SAFE monitor teams is as follows:

ITEM	QUANTITY
1/4-ton truck w/radio	1
AN/PDR-T1B	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

g. Uniform as prescribed.

5. COMMAND AND SIGNAL.

a. Red-Safety Officer will be located at the Command trench.

b. See Appendix I for radio call signs, frequencies, and RAD-SAFE Control Net.

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Brig Gen

Appendixes: 1--Rad-Safe Control Net

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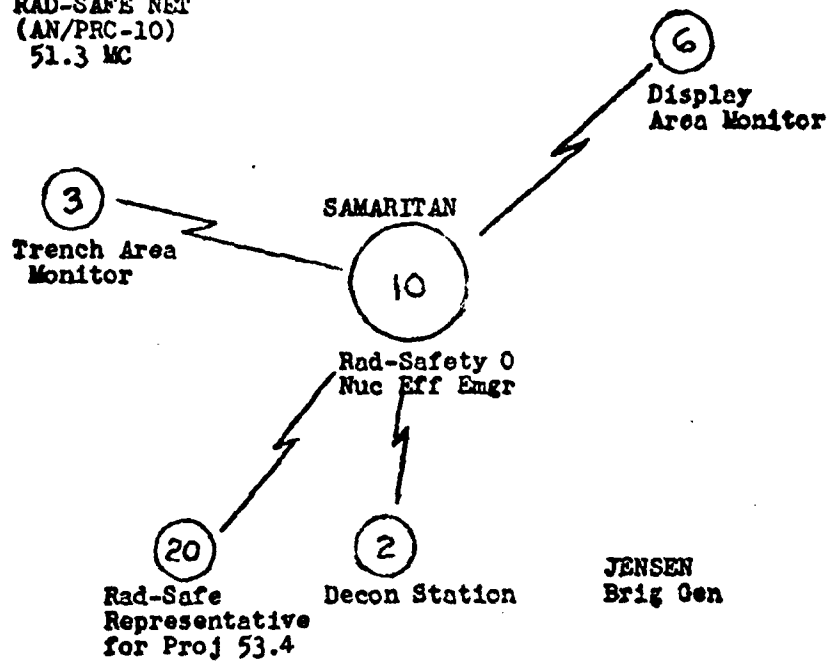
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Hq, Exercise Desert Rock VIII
CAMP DESERT ROCK (872536), NEV
081000 July 1957

Appendix I (Rad-Safe Control Net) to Annex C (Rad-Safety Plan)
to Opn O 9

MAP: NEVADA, 1:50,000 TIPPIPAH SPRING Sheet.

RAD-SAFE NET
(AN/PRC-10)
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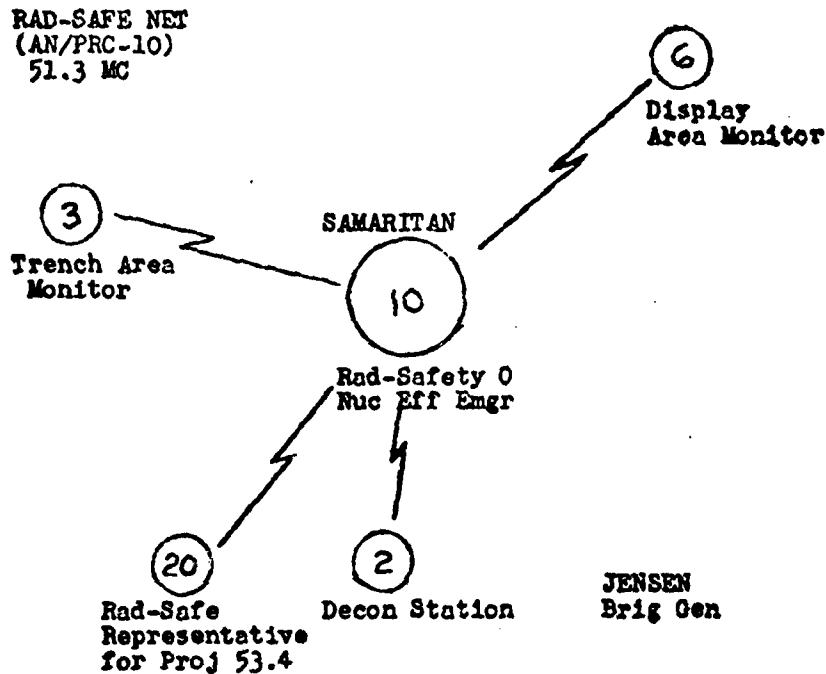
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Hq, Exercise Desert Rock VIII
CAMP DESERT ROCK (872536), NEV
081000 July 1957

Appendix I (Rad-Safe Control Net) to Annex C (Rad-Safety Plan)
to Opn O 9

MAP: NEVADA, 1:50,000 TIPPIPAH SPRING Sheet.



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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Annex D (Medical) to Operation Order 9

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

1. SITUATION.—Opn C 9.

2. MISSION.—To provide field medical support and evacuation of CAMP DESERT ROCK personnel, observers, and project personnel.

3. EXECUTION.—a. Three ambulances two to be equipped with radio, will be included in the march units during the movement to the trench area. After the observers are unloaded, ambulances will move with march units to the designated parking area and remain in that location on call. One ambulance will be retained near CP.

b. Aid station will be established in the center of trench No. 3, near road.

c. One (1) medical officer and one (1) aidman will be present in the command trench. At least two (2) aidmen will be stationed in the vehicle parking area (coordinates 850000).

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 each march unit.

4. ADMINISTRATION AND LOGISTICS.

a. Uniform.—Field uniform with helmet, gas mask or dust respirator, 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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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Annex D (Medical) to Operation Order 9

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

1. SITUATION.—Opn 09.

2. MISSION.—To provide field medical support and evacuation of CAMP DESERT ROCK personnel, observers, and project personnel.

3. EXECUTION.—a. Three ambulances two to be equipped with radio, will be included in the march units during the movement to the trench area. After the observers are unloaded, ambulances will move with march units to the designated parking area and remain in that location on call. One ambulance will be parked near CP.

b. Aid station will be established in the center of trench No. 3, near road.

c. One (1) medical officer and one (1) aidman will be present in the command trench. At least two (2) aidmen will be stationed in the vehicle parking area (coordinates 850000).

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 each march unit.

4. ADMINISTRATION AND LOGISTICS.

a. Uniform.—Field uniform with helmet, gas mask or dust respirator, 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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CAMP DESERT ROCK VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Annex E (Provost Marshal) to Operation Order 9

Maps: NEVADA, 1:50,000, TIPPIPAH SPRING, CANE 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 trench and display areas and return.

3. EXECUTION.

a. 293d MP Company provides eight (8) TCPs and one parking detail for movement of staff and observer group to the trench area, for movement of vehicles from the trench area to the parking area, for movement vehicles from the observer area to the HOOD display area and for movement from the display area to Camp Desert Rock. Staff and observer vehicles will be accorded secondary priority in movement on all roads within NTS.

b. Individual tasks for TCPs—PRE SHOT.

(1) TCP will direct vehicles to the left onto left fork of MERCURY HIGHWAY at the Y intersection to TCP 2.

(2) TCP 2 will direct vehicles to the left onto unnamed road from MERCURY HIGHWAY to TCP 3.

(3) TCP 3 will direct vehicles to the right onto the trench access road from unnamed road to TCP 4.

(4) TCP 4 will halt vehicles at turn-around area, assist in unloading staff and observer groups, and assist TC in turn-around operations for return of vehicles to parking area.

(5) TCP 3 will direct vehicles to the left onto unnamed road from access road to TCP 2.

(6) TCP 2 will direct vehicles to the right onto MERCURY HIGHWAY from unnamed road to TCP 1.

(7) TCP 1 will direct vehicles to the right onto MERCURY HIGHWAY at the Y intersection to TCP 8.

(8) TCP 8 will direct vehicles to the left into the parking area from MERCURY HIGHWAY.

(9) Parking area detail will assist serial commander in parking vehicles of the serial.

c. Individual tasks for TCPs—POST SHOT.

(1) Upon notification, TCP 8 will direct vehicles to the right onto MERCURY HIGHWAY from parking area for return to trench area.

(2) TCP 1 will direct vehicles to the left onto the left fork of MERCURY HIGHWAY to TCP 2.

(3) TCP 2 will direct vehicles to the left from MERCURY HIGHWAY onto unnamed road to TCP 3.

(4) TCP 3 will direct vehicles to the right onto trench access road

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CAMP DESERT ROCK VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Annex E (Provost Marshal) to Operation Order 9

Map: NEVADA, 1:50,000, TIPPICAH SPRING, CANE 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 trench and display areas and return.

3. EXECUTION.

a. 293d MP Company provides eight (8) TCPs and one parking detail for movement of staff and observer group to the trench area, for movement of vehicles from the trench area to the parking area, for movement vehicles from the observer area to the HQCD display area and for movement from the display area to Camp Desert Rock. Staff and observer vehicles will be accorded secondary priority in movement on all roads within NTS.

b. Individual tasks for TCPs—PRE SHOT.

(1) TCP will direct vehicles to the left onto left fork of MERCURY HIGHWAY at the Y intersection to TCP 2.

(2) TCP 2 will direct vehicles to the left onto unnamed road from MERCURY HIGHWAY to TCP 3.

(3) TCP 3 will direct vehicles to the right onto the trench access road from unnamed road to TCP 4.

(4) TCP 4 will halt vehicles at turn-around area, assist in unloading staff and observer groups, and assist TC in turn-around operations for return of vehicles to parking area.

(5) TCP 3 will direct vehicles to the left onto unnamed road from access road to TCP 2.

(6) TCP 2 will direct vehicles to the right onto MERCURY HIGHWAY from unnamed road to TCP 1.

(7) TCP 1 will direct vehicles to the right onto MERCURY HIGHWAY at the Y intersection to TCP 8.

(8) TCP 8 will direct vehicles to the left into the parking area from MERCURY HIGHWAY.

(9) Parking area detail will assist serial commander in parking vehicles of the serial.

c. Individual tasks for TCPs—POST SHOT.

(1) Upon notification, TCP 8 will direct vehicles to the right onto MERCURY HIGHWAY from parking area for return to trench area.

(2) TCP 1 will direct vehicles to the left onto the left fork of MERCURY HIGHWAY to TCP 2.

(3) TCP 2 will direct vehicles to the left from MERCURY HIGHWAY onto unnamed road to TCP 3.

(4) TCP 3 will direct vehicles to the right onto trench access road
DO NOT REPEAT THIS MESSAGE TO TCP 4.

ONLY LTO AMICDR-33

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IDENTIFICATION

3 354.15
15 JULY 57 Annex E (Provost Marshal) to Operation Order 9, Cont'd.

(5) TCP 4 will halt vehicles and assist in loading staff and observer group for movement to display area through TCP 5.

(6) TCP 5 will direct vehicles to the left from the north eastern terminal of the trench access road onto MERCURY HIGHWAY to TCP 6.

(7) TCP 6 will direct vehicles to the right from MERCURY HIGHWAY onto unnamed road which leads to display area turn-around and TCP 7.

(8) TCP 7 will assist vehicles in turn-around operations and direct vehicles onto unnamed road to TCP 6 for return to CAMP DESERT ROCK.

(9) TCP 6 will direct vehicles to left from unnamed road onto MERCURY HIGHWAY to TCP 1.

(10) TCP 1 will direct vehicles to the right onto MERCURY HIGHWAY at the Y intersection for return to CAMP DESERT ROCK.

d. Evacuation Plan (Upon Order Only).

(1) TCP 8 will direct vehicles to the right from parking area onto MERCURY HIGHWAY to TCP 1.

(2) TCP 1 will direct vehicles to the left onto the left fork of MERCURY HIGHWAY to TCP 5.

(3) TCP 5 will direct vehicles to the left from MERCURY HIGHWAY onto northeastern terminal of trench access road to TCP 4.

(4) TCP 4 will halt vehicles, assist in loading passengers and direct vehicles to TCP 3.

(5) TCP 3 will direct vehicles to the left from trench access road onto unnamed road to TCP 2.

(6) TCP 2 will direct vehicles to the right from unnamed road onto MERCURY HIGHWAY to TCP 1.

(7) TCP 1 will direct vehicles to the right onto MERCURY HIGHWAY at the Y intersection for return to CAMP DESERT ROCK.

(8) South-bound traffic will be afforded primary priority.

e. CBR Instructions.

(1) MPs will not proceed past orange cone markers without permission of Red-Safe personnel.

(2) Under no circumstances will any Military Policeman proceed past red cone markers.

f. Coordinating Instructions.

(1) TCPS 1-4 and 8 will remain on post until the last vehicle has cleared on return to parking area, at which time the TCPs will close behind the convoy.

(2) Upon all-clear notification, TCPs 8, 1, 2, 3, and 4 will proceed to designated areas to assist in return of vehicles to trench area.

(3) Upon notification, TCPs 5, 6, and 7 will proceed to designated areas to direct vehicles to and from display area.

(4) After the last vehicles of the convoy has returned from the display area TCPs 7, 6, and 5 will close behind the convoy and return to CAMP DESERT ROCK.

DO NOT RE-ENTER TRENCH AREA

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Annex E (Provost Marshal) to Operation Order 9, Cont'd.

(5) TCP 4 will halt vehicles and assist in loading staff and observer group for movement to display area through TCP 5.

(6) TCP 5 will direct vehicles to the left from the north eastern terminal of the trench access road onto MERCURY HIGHWAY to TCP 6.

(7) TCP 6 will direct vehicles to the right from MERCURY HIGHWAY onto unnamed road which leads to display area turn-around and TCP 7.

(8) TCP 7 will assist vehicles in turn-around operations and direct vehicles onto unnamed road to TCP 6 for return to CAMP DESERT ROCK.

(9) TCP 6 will direct vehicles to left from unnamed road onto MERCURY HIGHWAY to TCP 1.

(10) TCP 1 will direct vehicles to the right onto MERCURY HIGHWAY at the Y intersection for return to CAMP DESERT ROCK.

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(2) TCP 1 will direct vehicles to the left onto the left fork of MERCURY HIGHWAY to TCP 5.

(3) TCP 5 will direct vehicles to the left from MERCURY HIGHWAY onto northeastern terminal of trench access road to TCP 4.

(4) TCP 4 will halt vehicles, assist in loading passengers and direct vehicles to TCP 3.

(5) TCP 3 will direct vehicles to the left from trench access road onto unnamed road to TCP 2.

(6) TCP 2 will direct vehicles to the right from unnamed road onto MERCURY HIGHWAY to TCP 1.

(7) TCP 1 will direct vehicles to the right onto MERCURY HIGHWAY at the Y intersection for return to CAMP DESERT ROCK.

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(2) Upon all-clear notification, TCPS 8, 1, 2, 3, and 4 will proceed to designated areas to assist in return of vehicles to trench area.

(3) Upon notification, TCPS 5, 6, and 7 will proceed to designated areas to direct vehicles to and from display area.

(4) After the last vehicles of the convoy has returned from the display area TCPS 7, 6, and 5 will close behind the convoy and return to CAMP DESERT ROCK.

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Annex 8 (Provost Marshal) to Operation Order 9, Cont'd.

(5) Upon notification, TCPs 1, 2, 3, and 4 will withdraw to parking area to await any further instructions.

(6) All TCPs will be posted fifteen (15) minutes prior to convoy's arrival.

4. ADMINISTRATION AND LOGISTICS.

a. Uniform.--Steel helmet, fatigues, and field jacket.

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

5. COMMAND AND SIGNAL.

a. Guard net AAG-700 will be used to control movement to trench area, display area, and return.

b. Radio-equipped five (5) passenger sedan or 1/4-ton trucks will be stationed at each TCP and will remain in communications until ordered to leave net, or until fifteen (15) minutes before shot time.

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

d. Control call sign for movement will be RATTLESNAKE.

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

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Annex E (Provost Marshal) to Operation Order 9, Cont'd.

(5) Upon notification, TCPs 1, 2, 3, and 4 will withdraw to parking area to await any further instructions.

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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Annex F (Signal) to Operation Order 9

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

1. PURPOSE.—To provide continuous communications before, during, and after the detonation of shot Diablo 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. The 2d Signal Platoon (Photographic) Team will document pictorially pre-shot, during shot, and post-shot activities.

3. EXECUTION.

a. Radio communications.

(1) Radio silence from H-15 minutes to H+5 minutes.

(2) Radio call signs and frequencies.

(a) Avalanche Net.—Diablo Trench Area—Avalanche, AN/GRC-9; Control Point 1—Avalanche Alfa, AN/GRC-26; CAMP DESERT ROCK—Avalanche Bravo, AN/GRC-26; Project 50.8—Avalanche Charlie, AN/GRC-19; Vehicle Parking Area—Avalanche Delta, AN/GRC-26; Project 50.3—Avalanche Echo, AN/GRC-9; Frequency is 4870 KC AM. NCS is station at Diablo Trench Area. Appendix 1, Avalanche Net.

(b) Hilltop Net.—CP-1—Hilltop 61, Motorola-Type Handy-Talkie; Project 50.3—Hilltop 81, Motorola-Type Handy-Talkie; Diablo Trench Area—Hilltop 30, AN/VRC-19. NCS is station at CP-1. Appendix 2, Hilltop Net.

b. Wire communications.

(1) Forward.—Appendix 3, Wire Circuits Forward.

(a) Line 1.—One wire circuit from Room 223, CP-1, to Diablo Trench area (coordinates 805109) 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 public-address system, Diablo Trench area, to monitor "COUNT DOWN" and R-hour announcements.

(c) Line 3.—One wire circuit from radio site to CP-1 to radio site at Diablo Trench 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 Rear. Diablo Trench Area, Project 50.3, Project 50.8, Decontamination Station, and the Vehicle Parking area will be connected by wire direct to Desert Rock advance switchboard.

c. Public-address systems.—Public address systems will be installed at all locations where observers are assembled: Diablo Trench area and the

Vehicle Parking Area.

15 JUL 57

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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Annex F (Signal) to Operation Order 9

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

1. PURPOSE.--To provide continuous communications before, during, and after the detonation of shot Diablo 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 DCD Signal personnel at CAMP MERCURY, NEVADA. Photo dosimetry services will be provided by the Photo Dosimetry Team from Lexington Signal Depot, LEXINGTON, KENTUCKY. The 2d Signal Platoon (Photographic) Team will document pictorially pre-shot, during shot, and post-shot activities.

3. EXECUTION.

a. Radio communications.

(1) Radio silence from H-15 minutes to H+5 minutes.

(2) Radio call signs and frequencies.

(a) Avalanche Net.--Diablo Trench Area--Avalanche, AN/GRC-9; Control Point 1--Avalanche Alfa, AN/GRC-25; CAMP DESERT ROCK--Avalanche Bravo, AN/GRC-26; Project 50.8--Avalanche Charlie, AN/GRC-19; Vehicle Parking Area--Avalanche Delta, AN/GRC-26; Project 50.3--Avalanche Echo, AN/GRC-9; Frequency is 4870 KC AM. NCS is station at Diablo Trench Area. Appendix 1, Avalanche Net.

(b) Hilltop Net.--CP-1--Hilltop 61, Motorola-Type Handy-Talkie; Project 50.3--Hilltop 81, Motorola-Type Handy-Talkie; Diablo Trench Area--Hilltop 30, AN/VRC-19. NCS is station at CP-1. Appendix 2, Hilltop Net.

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(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.

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c. Public-address systems. --Public address systems will be installed at all locations where observers are assembled: Diablo Trench area and the

Vehicle Parking Area.

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Annex Y (Signal) to Operation Order 9, Cont'd.

d. Pictorial coverage.—Members of the 2d Signal Platoon (Photographic) Team will take motion pictures and still black and white and color photographs of the detonation of the device from NEWS NOB on D-day.

JENSEN
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Appendixes: 1—Avalanche Net
2—Hilltop Net
3—Wire Circuits Forward
4—Wire Circuits Rear

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Annex F (Signal) to Operation Order 9, Cont'd.

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d. Pictorial coverage.—Members of the 2d Signal Platoon (Photographic) Team will take motion pictures and still black and white and color photographs of the detonation of the device from NEWS NOB on D-day.

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Appendixes: 1--Avalanche Net
2--Hilltop Net
3--Wire Circuits Forward
4--Wire Circuits Rear

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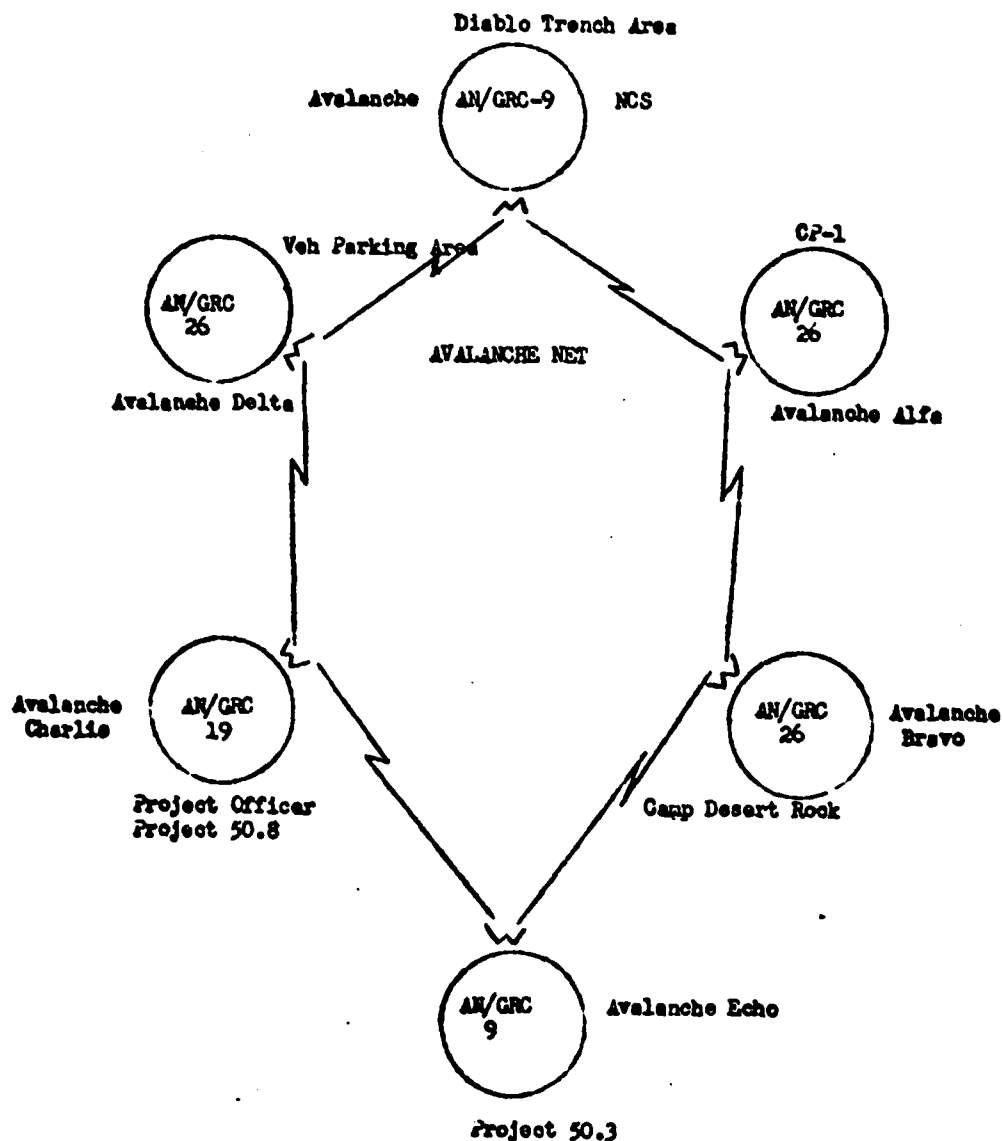
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CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Appendix 1 (Avalanche Net) to Annex F (Signal) to Opn 0 9

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



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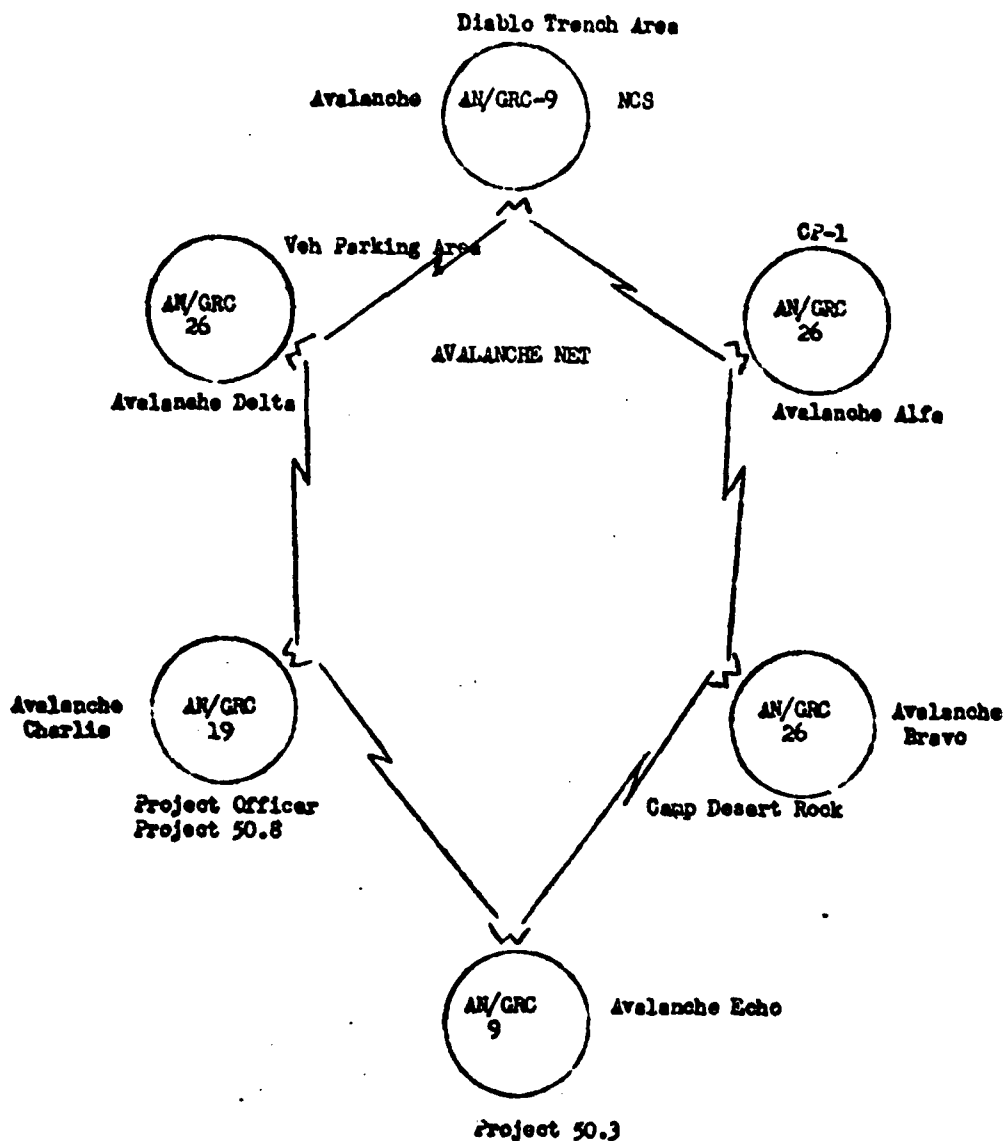
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Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Appendix 1 (Avalanche Net) to Annex F (Signal) to Opn 0 9

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



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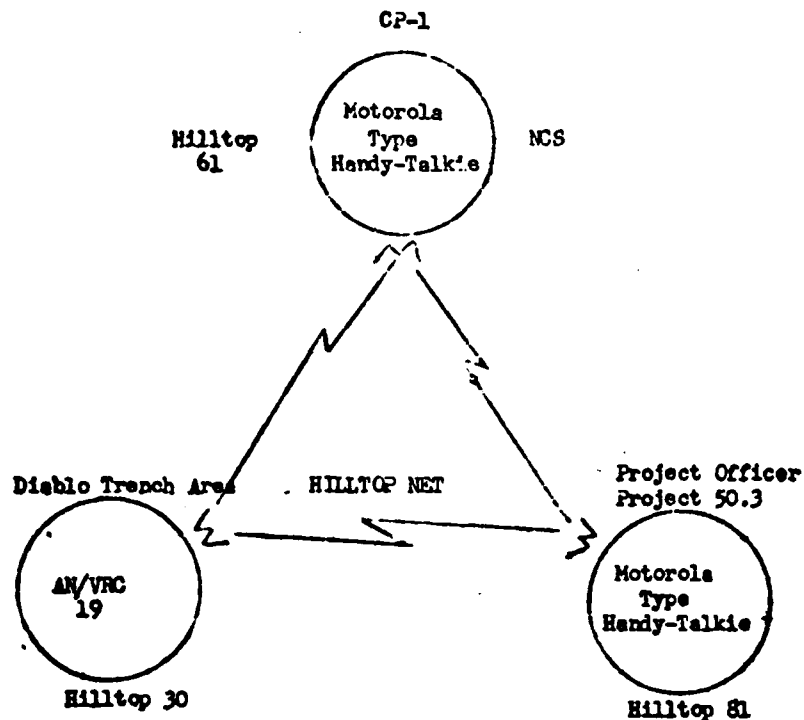
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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Appendix 2 (Hilltop Net) to Annex F (Signal) to Opn O 9

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



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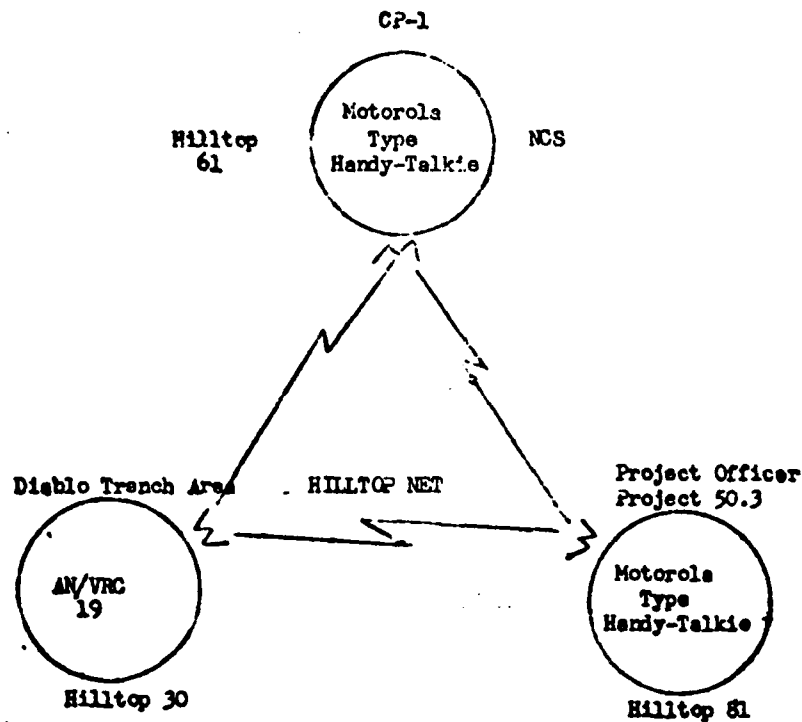
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CAMP DESERT ROCK (874536), NEVADA
081000 July 1957

Appendix 2 (Hilltop Net) to Annex F (Signal) to Opn 09

Map: NEVADA, 1:50,000, TIPPIPAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE
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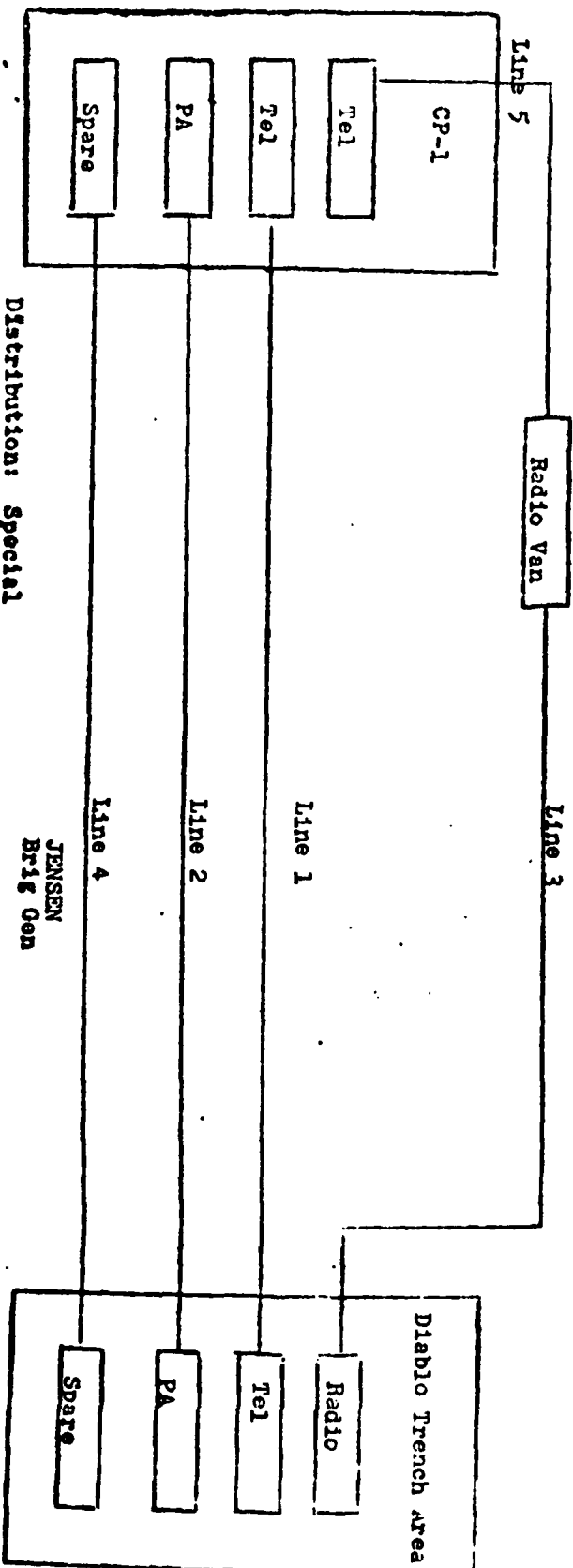
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Appendix 3 (Wire Circuit Forward) to Annex F (Signal) to Opn 0 9

Map: NEVADA, 1:50,000, TIPPICAH SPRING, CAVE SPRINGS, SPECTOR RANGE, PARPOSE LAKE, FRENCHMAN LAKE, and
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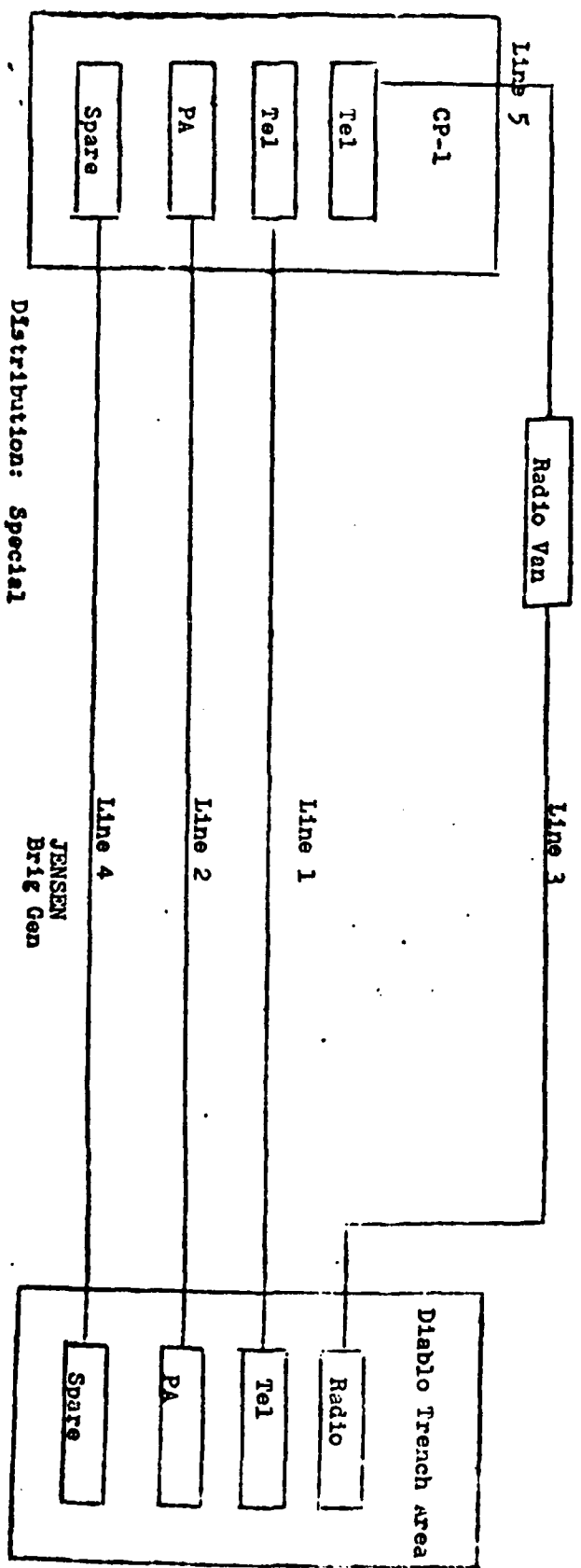
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CAMP DESERT ROCK (872536), NEVADA
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Appendix 3 (Wire Circuit Forward) to Annex F (Signal) to Opn 0 9

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



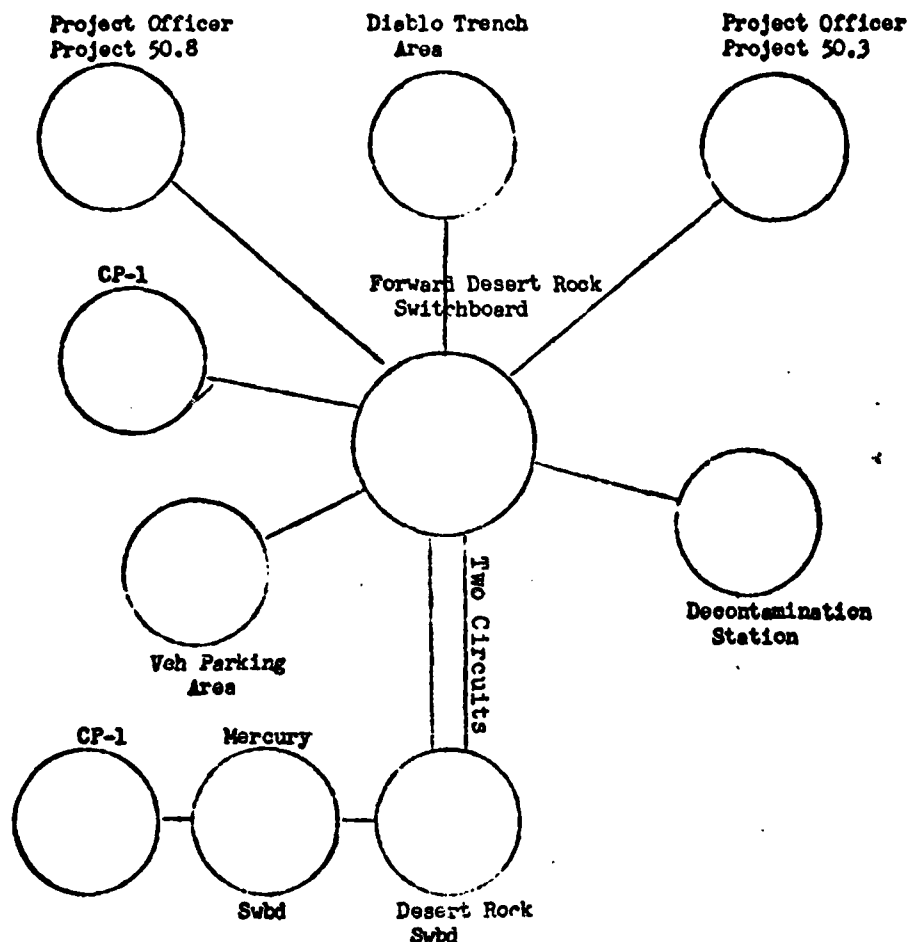
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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Appendix 4 (Wire Circuits Rear) to Annex F (Signal) to Opa 09
Map: NEVADA, 1:50,000, TIPPIPAH SPRING, CAME SPRINGS, SPECTOR RANGE, PAPOOSE
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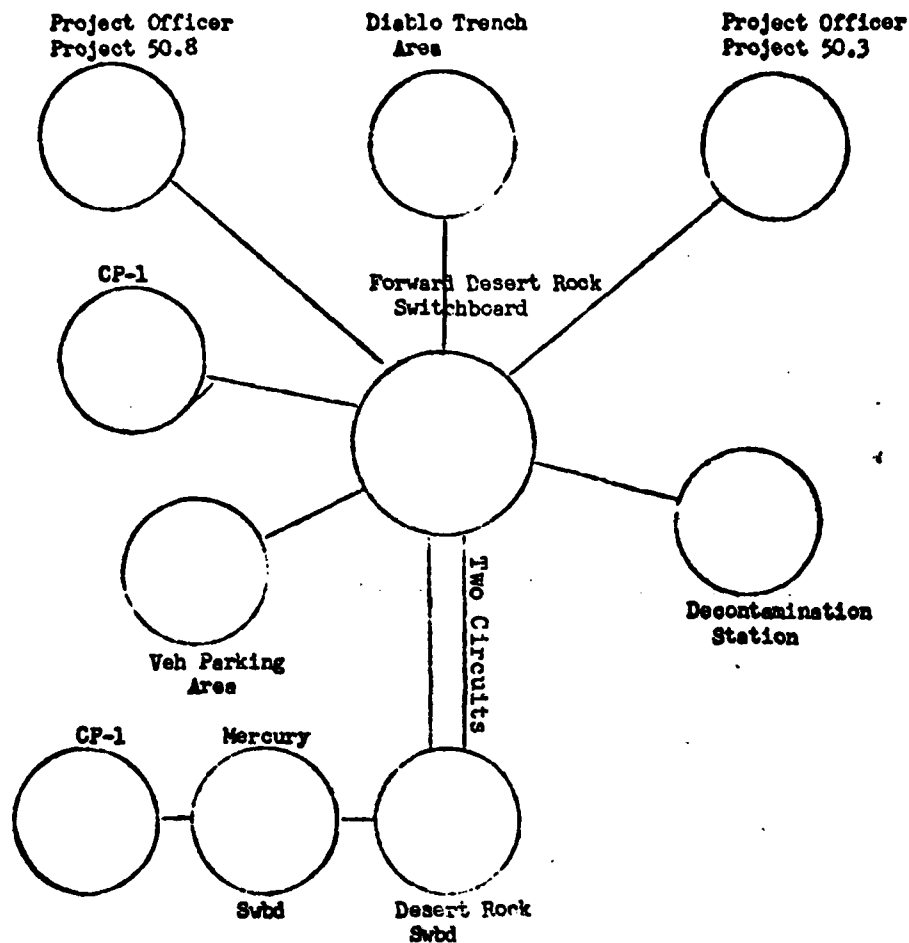
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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Appendix 4 (Wire Circuits Rear) to Annex F (Signal) to Opn 09

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



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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Annex G (Transportation) to Operation Order 9

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

1. ORGANIZATION.—Motor vehicle convoy will be organized into two (2) march units 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 forward trench area in the NEVADA TEST SITE and return by motor vehicle.

3. EXECUTION.

a. Movement will be in accordance with schedule listed in Appendix 2, March Tables. Movement of vehicles to the entrucking areas for return movement will be as directed by the tactical commanders and the Control Group Commander.

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

c. Coordinating instructions.

(1) March unit commanders 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.

(3) Movement from motor park will be directed by S-3.

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Appendices: 1—Convoy Organization
2—March Tables

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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Annex G (Transportation) to Operation Order 9

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

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Brig Gen

Appendices: 1—Convoy Organization
2—March Tables

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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Appendix 1 (Convoy Organisation) to Annex G (Transportation) to Opn O 9

VEHICLE ROSTER (DIABLO)

Convoy Commander - Capt Ingram

1st March Unit

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

2d March Unit

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

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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Appendix 1 (Convoy Organisation) to Annex G (Transportation) to Opn 09

VEHICLE ROSTER (DIABLO)

Convoy Commander - Capt Ingram

1st March Unit

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

2d March Unit

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

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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Appendix 2 (March Tables) to Annex G (Transportation) to Opn O 9

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

MARCH TABLE (DIABLO)

1st March Unit

Rate	Type	TL	Critical Points	ETA	Latest Clearance
20MPH	C	3	IP	0015	0018
20MPH	C	3	Mer Ck Pt 2	0028	0031
35MPH	O	3	Frenchman Flat RJ	0046	0049
35MPH	O	3	CP #4	0108	0111
35MPH	O	3	I in Mer Hwy	0121	0124
10MPH	C	3	Arr Trench	0136	0139
10MPH	C	3	Depart Trench	0149	0152
35MPH	O	3	I in Mer Hwy	0207	0210
35MPH	O	3	Parking Area	0212	0215

2d March Unit

Rate	Type	TL	Critical Points	ETA	Latest Clearance
20MPH	C	3	IP	0028	0031
20MPH	C	3	Mer Ck Pt 2	0041	0044
35MPH	O	3	Frenchman Flat RJ	0059	0102
35MPH	O	3	CP #4	0121	0124
35MPH	O	3	I in Mer Hwy	0134	0137
10MPH	C	3	Arr Trench	0149	0152
10MPH	C	3	Depart Trench	0202	0205
35MPH	O	3	I in Mer Hwy	0220	0223
35MPH	O	3	Parking Area	0225	0228

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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Appendix 2 (March Tables) to Annex G (Transportation) to Opn O 9

Maps: NEVADA, 1:50,000, TIPPIPAH SPRING, CAVE SPRINGS, SPECTOR RANGE, PAPOOGE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

MARCH TABLE (DIABLO)

1st March Unit

Rate	Type	TL	Critical Points	ETA	Latest Clearance
20MPH	C	3	IP	0015	0018
20MPH	C	3	Mer Ck Pt 2	0028	0031
35MPH	O	3	Frenchman Flat RJ	0046	0049
35MPH	O	3	CP #4	0108	0111
35MPH	O	3	Y in Mer Hwy	0121	0124
10MPH	C	3	Arr Trench	0136	0139
10MPH	C	3	Depart Trench	0149	0152
35MPH	O	3	Y in Mer Hwy	0207	0210
35MPH	O	3	Parking Area	0212	0215

2d March Unit

Rate	Type	TL	Critical Points	ETA	Latest Clearance
20MPH	C	3	IP	0028	0031
20MPH	C	3	Mer Ck Pt 2	0041	0044
35MPH	O	3	Frenchman Flat RJ	0059	0102
35MPH	O	3	CP #4	0121	0124
35MPH	O	3	Y in Mer Hwy	0134	0137
10MPH	C	3	Arr Trench	0149	0152
10MPH	C	3	Depart Trench	0202	0205
35MPH	O	3	Y in Mer Hwy	0220	0223
35MPH	O	3	Parking Area	0225	0228

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Annex H (Project 50.8 Locations) to Opn O 6

Maps: NEVADA, 1:50,000, TIPPICAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY SHEETS;
NEVADA, 1:250,000, GOLDFIELD, CALIENTE, BEATY and LAS VEGAS SHEETS.

Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
C81000 JULY 1957

Site	Coordinates	Area (Sq Yds)	No. of Pers	Net Call Word	Communications Freq(MC)	Type	Mod	Equip	Hrs. Opn
C-1	ML733073	160,000	20 (H-hr) 32 (H ₁ to H ₄ 98)	YARDARM 1	37.2	FM	NONE	NONE	H/3 to H/46
C-2	ML845065			SAME AS C-1 SEE NOTE					
C-3	ML701998	10,000	14	WOLLOW 1	30.2	FM		1-AN/GMD-1A Radio Direction Finder	H-1 - H/6
C-4	ML777978	125	9	EXPRESS 11	35.8	FM		1-AN/MPQ-10 Radar	H-1 - H/2
C-4A	ML795938			SAME AS C-4					
C-5	ML794970	125	9	EXPRESS 12	35.8	FM		1-AN/MPQ-10 Radar	H-1 - H/2
C-5A	ML805938			SAME AS C-5					
C-6	ML785940	100	4	ELDORADO 5	30.6	FM		1-AN/TVS-1 Camera 1-BC Scope, M65	H-1 - H/1 H-1 - H/1
C-7	ML828899	100	4	ELDORADO 4	30.6	FM		1-AN/TVS-1 Camera 1-BC Scope, M65	H-1 - H/1 H/1 Min to H/1
C-8	ML868872	100	4	ELDORADO 3 EXPRESS 30	30.6 35.8	FM FM		1-AN/TVS-1 Camera	H-1 - H/1

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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
CB1000 July 1957

Annex H (Project 50.8 Locations) to Opn 0 6

Maps: NEVADA, 1:50,000, TIPPICAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY SHEETS;
NEVADA, 1:250,000, GOLDFIELD, CALIENTE, BEATTY and LAS VEGAS SHEETS.

Site	Coordinates (Sg Yds)	Area	No. of Pers	Net Call Word	Communications Freq(MC)	Type Mod	Equip	Hq's Opn
C-1	NL733073	160,000	20 (H-hr) 32 (H/ to H/98)	YARDARM 1	37.2	FM	NONE	H/3 to H/48
C-2	NL845065			SAME AS C-1 SEE NOTE				
C-3	NL701998	10,000	14	WOLLOW 1	30.2	FM	1-AN/GMD-1A Radio Direction Finder	H-1 - H/6
C-4	NL777978	125	9	EXPRESS 11	35.8	FM	1-AN/MPQ-10 Radar	H-1 - H/2
C-4A	NL795938			SAME AS C-4				
C-5	NL794970	125	9	EXPRESS 12	35.8	FM	1-AN/MPQ-10 Radar	H-1 - H/2
C-5A	NL805938			SAME AS C-5				
C-6	NL785940	100	4	ELDORADO 5	30.6	FM	1-AN/TVS-1 Camera 1-BC Scope, M65	H-1 - H/1 H-1 - H/1
C-7	NL828899	100	4	ELDORADO 4	30.6	FM	1-AN/TVS-1 Camera 1-BC Scope, M65	H-1 - H/1 H/1 Min to H/1
C-8	NL868872	100	4	ELDORADO 3	30.6	FM	1-AN/TVS-1 Camera 1-BC Scope, M65	H-1 - H/1

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Annex H (Project 50.8 Locations) to Opn 0 6, Cont

Site	Coordinates	Area (Sq Yds)	No. of Pers	Communications			Equip	Hrs Opn
				Net Call	Word	Freq(MC)	Type Mod	
C-9	ML903872	100	4	ELDORADO 2		30.6	FM	1-AN/TVS-1 Camera 1-BC Scope, M65 H-1 - H/1 H/1 min to H/1
C-10	ML903872	20,000	50	HANNIBAL 2 BUCKSAW (Air to Grd)		4.96	AM	1-M33 Track Radar #2 H-4 - H/6
						309.6	AM	1-M33 Acq Radar #2 1-Nike Ajax TTR 1-Nike Ajax Acq Radar 1-Nike Ajax MTR 3-IFF Sets
C-11	ML755802	10000	14	WOLLOW 2		30.2	FM	1-AN/GMD-1A Radio Direction Finder H-6 - H/6
C-11A	ML751785	10,000	14	WOLLOW 2		30.2	FM	1-AN/GMD-1A Radio Direction Finder H-6 - H/6
C-12	ML922634	500	15	HANNIBAL 1		4.96	AM	1-M33 Track Radar #1 1-M33 Acq Radar #1 1-AN/TPS-1D Radar #1 H-4 - H/6 H-4 - H/-6
C-13	*185510 (Indian Springs AFB) *PL279202	500	8	HANNIBAL 4		4.96	AM	1-AN/TPS-1D Radar #2 1-IFF Set H-4 - H/4 H-4 - H/6
C-14		25	2	ELDORADO 6		30.6	FM	1-AN/GAS-1 IR Detector 1-AN/ASH-4 IR Retector H-1 - H/1 H-1 - H/1
C-15	*PL025620	10,000	14	WOLLOW 3		30.2	FM	1-AN/GMD-1A Radio Direction Finder H-6 - H/6
C-16	ML860915	500	25	EXPRESS 21		35.8	FM	5-GR-8 Sd Ranging Set 1-AN/ASH 4 Infrared Detector Passive H-2 - H/1 H-1 H/1 N/A

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Annex H (Project 50.8 Locations) to Opn O 6, Conf

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Site	Coordinates	Area (Sq Yds)	No. of Pers	Communications			Equip	Hrs Opn
				Net Call	Word	Freq(MC)	Type Mod	
C-9	ML903872	100	4	ELDORADO 2		30.6	FM	1-AN/TVS-1 Camera 1-BC Scope, M65 H-1 - H/1 H/1 min to H/1
C-10	ML903872	20,000	50	HANNIBAL 2 BUCKSAW (Air to Grd)		4.96	AM	1-M33 Track Radar #2 H-4 - H/6
C-11	ML755802	10000	14	WOLLOW 2		30.2	FM	1-M33 Acq Radar #2 1-Nike Ajax TTR 1-Nike Ajax Acq Radar 1-Nike Ajax MTR 3-IFF Sets H-6 - H/6
C-11A	ML751785	10,000	14	WOLLOW 2		30.2	FM	1-AN/GMD-1A Radio Direction Finder H-6 - H/6
C-12	ML922634	500	15	HANNIBAL 1		4.96	AM	1-M33 Track Radar #1 1-M33 Acq Radar #1 1-AN/TPS-1D Radar #1 H-4 - H/6 H-4 - H/-6
C-13	*185510 (Indian Springs AFB)	500	8	HANNIBAL 4		4.96	AM	1-AN/TPS-1D Radar #2 1-IFF Set H-4 - H/4 H-4 - H/6
C-14	*PL279202	25	2	ELDORADO 6		30.6	FM	1-AN/GAS-1 IR Detector 1-AN/ASH-4 IR Retector H-1 - H/1 H-1 - H/1
C-15	*PL025620	10,000	14	WOLLOW 3		30.2	FM	1-AN/GMD-1A Radio Direction Finder H-6 - H/6
C-16	ML860915	500	25	EMPRESS 21		35.8	FM	5-GR-8 Sd Ranging Set 1-AN/ASH 4 Infrared Detector Passive H-2 - H/1 H-1 H/1 N/A

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Annex H (Project 50.8 Locations) to Opn 0 6, Continued.

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Site	Coordinates	Area (Sq Yds)	No. of Pers	Net Call Word	Communications Freq(MC)	Type Mod	Equip	Hrs Opn
C-19	NL885606	100	2	EMPRESS 3	35.8	FM	NONE	H-2 - H/1
C-20	NL758794	500	30	EMPRESS 13	35.8	FM	1-AN/MPQ-21 Radar C Band	H-1 - H/2
				EMPRESS 14	35.8	FM	1-AN/MPQ-21 Radar S Band	H-1 - H/2
C-21	NL769944	10,000	15	EMPRESS 1	35.8	FM	Field Kitchen Btry CP	H-24 - H/40
C-22	NL850904	500	14	YARDARM 8	35.1	FM	1/H13H Helicopters 1 Gasoline Tank Truck Passive	H-12 - H/48 N/A

*Scale 1:250,000

Note: C-2 is alternate for C-1.

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Annex H (Project 50.8 Locations) to Opn O 6, Cebu.

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Site	Coordinates (Sq Yds)	Area	No. of Pers	Net Call Word	Communications Freq(MC)	Type Mod	Equt	Hrs Opn
C-19	NL885606	100	2	EMPRESS 3	35.8	FM	NONE	E-2 - H/1
C-20	NL758794	500	30	EMPRESS 13	35.8	FM	1-AM/MPQ-21 Radar C Band	H-1 - H/2
				EMPRESS 14	35.8	FM	1-AM/MPQ-21 Radar S Band	H-1 - H/2
C-21	NL769944	10,000	15	EMPRESS 1	35.8	FM	Field Kitchen Btry CP	H-24 - H/40
C-22	NL850904	500	14	YARDARM 8	35.1	FM	1/HL3H Helicopters 1 Gasoline Tank Truck Passive	H-12 - H/48 H/4

*Scale 1:250,000

Note: C-2 is alternate for C-1.

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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Annex I (Emergency Evacuation Plan) to Operation Order 9

Map: NEVADA, 1:50,000, TIPPICAH 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) AEC Gate Nr 4 (coordinates 845902).
- (2) Decontamination Station (coordinates 848888).
- (3) Check Gate Nr 2, Camp Mercury (coordinates 914605).
- (4) 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 area:

(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 to be effected as soon as possible upon reaching the designated place of safety.

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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Annex I (Emergency Evacuation Plan) to Operation Order 9

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Annex I (Emergency Evacuation Plan) to Operation Order 9, Cont'd.

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(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 Red-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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Annex I (Emergency Evacuation Plan) to Operation Order 9, Cont'd.

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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Annex J (Distribution List) to Operation Order 9

<u>UNITS</u>	<u>COPY NO</u>
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
PM, 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 Hosp	34
CO, 232d Sig Co	35
CO, 50th Chemical Plat	36
Post Aviation Off	37
Project Off, Project 50.3	38
Project Off, Project 50.8	39
Project Off, Project 53.4	40
AG File Cooy	41

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Hq, Exercise Desert Rock VII & VIII
CAMP DESERT ROCK (872536), NEVADA
081000 July 1957

Annex J (Distribution List) to Operation Order 9

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S-4, Camp Desert Rock	25
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PM, 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 Hosp	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 53.4	40
AG File Cooy	41

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