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Special Re-L_view	
FINAL DETERMINATION 100	
UNCLASSIFIED, DATE: 8/21/80	VERIFIED UNCLASSIFIED
MEDICAL HA	ZARDS OF TR #2
	ATW 8/21/90

I. Introduction:

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II, Organization of Medical Group (TR 7):

It is the purpose of the Medical Department to anticipate possible dangers 230.6 to the health of scientific personnel, residents of nearby towns and of casuals; T- Hazan to provide means of detection of these dangers; and to notify proper authorities when such dangers exist.

It is also necessary to obtain records which may have medico-legal bearing for future reference.

The medical group will act in an advisory capacity and avoid direct orders to personnel except in cases of emergency. It is the responsibility of the Project Director (K. T. B.) to confirm or deny activities to scientific personnel which may be hazardous to them. It has been advised that no person should (of his own will) receive more than five (5) r. at one expessive.

Evacuation of towns or inhabited places will be carried out by C=2 personnel if necessary on advice from the Medical Department, Contaminated areas will be adequately marked and guarded until decontaminating procedures can be carried out.

A. Chief of Medical Group: Consultants: Honpelmann Warren Friedell Deputy at TR: Surgeon: Nolan Large Humphries Instruments: Lorner RG 3?6 US ATOMIC ENERGY Site Conitorings CONFIRMED TO BE UNCLASSIFIED EY AD THORITY OF DOE OG Outside Monitoring: EEVITWED CLASSIFICATION CANCELLED PER DOC REVIEW JAN. 1973 B. The Luties of Hedical Group Personnol: 1) Heupelmann: Usherally in charge of operations. To have no regularly assigned duties, but to be ready at Base Camp for consultation: PRIVACY ACT MATERIAL REMOVED

2) Nolan:

To plan for medical personnel and equipment. To acquaint all personnel as to activities of Nedical Group. To instruct medical personnel to their duties and responsibilities. To inform Project Directior (K. T. B.) as to Medical Hagards.

3) Watts:

To construct and install all monitoring devices. To instruct monitors as to their equipment and duties.

4) Ecnitors:

To carry out readings and recordings as instructed.

5) Medical Officers:

To be available in case of fatastrophe and to act as temporary monitors.

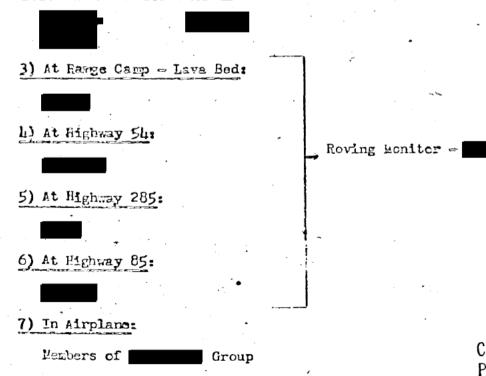
6) Consultants:

To be evailable at Base Camp for receipt of monitoring reports and to advise as to necessity of evacuation of contaminated areas.

- C. Stations of Medical Group Personnel:
 - 1) At Base Camp:

Hempelrann	Warren
Nolan	Large
Watts	Asbersold

2) At 10,000 Yard Shelters:



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8) At Albuquerque:

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III. Equipment of Medical Group:

- A. Transportation:
 - Ambulances:
 a. Panel type
 b. Field type
 - Four-Wheel Drive:
 a. Command car
 b. Carry-all
 - 3) Sedan

 4) On loan - 2 contaminated four-wheel drive vehicles for taking scientific
 personnel into contaminated area. All available four-wheel drive vehicles for evacuating base campo

B. Protective Clothing:

C. Gas Hasks:

Positive pressure type - Tank Group. .12
 Smoke resistant type - in-going group. .30
 Regular gas masks - Shelter group. . .30
 Respirators - all personnel at base. .400

D. Instruments:

1)	Portable gamma meters		G			. 15	· ~* * 1
2)	Portable alphameters				•	. 20	
	Filter Queens.						•
	Recording gamma meters						(Esterline-Angus
	Hand and Swipe Counter						, -
6)	Regular pencils		•	•	0	200ء	
7)	Chargers	•	v		•	• •3	
	Resistant pencils						
	Film badges - catastrophe.						
	Film badges - for towns						

IV. Plans for Monitoring - Before Shot:

A. Transportation of Material:

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- 1) Courier to wear pencil and catastrophe badge
- 2) Container to be blecked with small portable gamma and alpha meters.

B. Assembly:

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1) Dry box maneurers to be checked with portable gamma meter

2) Protective clothing and respirator worn before tamper is in place.

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3) Check hand and nose counts of Pit Nan

C. Raising of Material and H. E .:

1) Area to be cleared of unessential personnel before, during, and after this procedure.

V. Plans for Monitoring - Time of Shot:

A. At 10,000 yd. Shelters:

- 1) All persons to remain inside shelters
- 2) One member of Kedical Group at each shelter
- 3) Instruments and equipment
 - a. portable gamma meter. . . . 1
 - b. portable alpha meter. 1
 - c. Pencil chambers or film badges for each person
 - d. ordinary gas mask for each person
- 4) All personnel to leave for base camp within 30 minutes using gas masks.
- 5) a. Evacuate before 30 minutes if gamma reading outside shelter reaches 0.1 r/hr.
- b. Put on gas masks and evacuate if alpha reading reaches 5 c/m.
- 6) Adequate transportation to be checked by member of Medical Group.

B. At Base Camp:

- 1) All persons to be outside of buildings.
- 2) Observers of shot to wear protective goggles and avoid direct vision.

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- 3) To stay at Base until contaminated area is ascertained ---- 6 hours.
- 4) Member of Medical Group to be in communication with town monitors by phone and with plane monitors by radio.
- 5) Equipment and instruments:
 - a. portable gamma meter
 - b. portable alpha meter
 - c. respirators
 - d: adequate transportation for all personnel for evacuation
 - e_r tolerances same as in V A 5)

C. At Range Camp (Lava Bed):

1) Observe cloud and trail with radar and direct vision

- 2) Instruments and equipment:
 - a. Portable gamma meter
 - b. Portable alpha meter
 - c. Respirators

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- d. Transportation
- 3) Tolerances same as in V A 5)
- 4) Communications radio to Base Camp
- D. Member of Medical Group at Highway 54:
 - 1) Check recording maters (alpha and gamma) at: Corrizozo, Oscura, Three Rivers, Tularossa
 - 2) Observe cloud visually and record course

3) Observe readings of portable alpha mater beneath cloud

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- 4) Follow cloud towards east and continue with meter readings.
- 5) Communicate with Albuquerque by phone as to course, intensity of readings, etc.

E. Komber of Medical Group at Highway 285:

- 1) Check recording meters (alpha and gamma) at Carlsbad and Roosevelt
- 2) Observe cloud visually and record course.
- 3) Observe readings of portable alpha meter beneath cloud
- 4) Follow cloud towards east and continue meter readings
- 5) Communicate with Albuquerque by phone, as to course, intensity of readings, etc.

F. Member of Medical Group at Highway 85:

- 1) Check recording meters (alpha and gamma) at San Antonio
- 2) Observe cloud visually and record course
- 3) Observe readings of portable alpha meter beneath cloud
- 4) Follow cloud towards east and continue meter readings
- 5) Communicate with Albuquerque by phone, as to course, intensity of readings, etc.

G. Roving Town Monitor:

- 1) Station himself Corrizozo at time of shot.
- 2) Follow cloud visually and with portable meters.
- 3) Direct station and activities of ground monitors.
- 4) Confer with Albuquerque (N. Friedell) in case of need of evacuation at any point.

VI. Plans for Lonitoring - After Shot:

A. At Shelters 10,000 yards:

- e camp. WIC SL Joto 1) Evacuate area as soon as possible returning all personnel to Base Camp.
- 2) Check wearing of gas masks and pencil chambers.
- 3) Report on meter readings.

B. At Base Camp:

- 1) Receive reports from plane and sufface monitors
- (2) Send consultation group to dangerous areas if need be
- 13) Chock equipment, calculate dosage, instructions to personnel entering contaminated area to retrieve equipment. This is to be done by a Board consisting of K. T. B., V. T., and J. F. N. with the aid of information obtained by Tank Team and from gamma sentinels of Moon. Men to wear coveralls, caps, boots, snoke masks, film badges and direct reading electroscopes.
- 4) Record gamma and alpha reddings at Base. Camp and evacuate if necessary. This must continue untill all of Ease Camp can be evacuated after 4 - 7 days
- 5) Check equipment of Tank Team before and after their activities.
- 6) l'ap out area of gamma contamination to tolerance limit (0.1 r/8hrs.)
- 7) Sap out area of alpha contamination to tolerance limit (five c/m on ground)
- 8) Set up wind-socks at various locations for ground wind direction.

C. At Highrays and Lava Bed:

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1) To report at Base after recording devices are secured and after cloud and trail have passed. Be prepared to proceed in direction of cloud if necessary.

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Return to Base when advised to watch for and retrieve film badges dropped through cloud by plane,

D. Plane:

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- 1) This to be performed by members of Alvarez's group and to be instrumented to carry cut the following measurements:
 - a. size of cloud b. shape of cloud
 - c. course of cloud . .

- d. gamma intensity by direct reading at distance
- •. gamma intensity by dropping film through cloud at intervals.

E. Additional Measures:

1) Film to be sent to post offices of surrounding tozns and be picked up by G-2 man and recorded.

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