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JOINT TASK FORCE SEVEN

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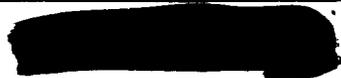
No. 903

RADIOACTIVE FALL-OUT, RADIOACTIVE SAMPLES, RADIATION AND
CONTAMINATION OF PERSONNEL AND PROPERTY

12

DECLASSIFIED BY ACTING CHIEF ISC-1
SIGNATURE John R. Bally Jr.

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JOINT TASK FORCE SEVEN

903

RADIOACTIVE FALL-OUT, RADIOACTIVE SAMPLES, RADIATION,
AND CONTAMINATION OF PERSONNEL AND PROPERTY.

*For Related Mat see
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(Files 700 + 729.3)*

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1958

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HEADQUARTERS
JOINT TASK FORCE SEVEN
APO 437
SAN FRANCISCO, CALIFORNIA

27 June 1958

MEMORANDUM FOR GENERAL LUEDECKE:

FROM: STAFF SURGEON

SUBJECT: Doseage Increases (as per letter request CTG 7.5)

1. Recommend approval.
2. Consideration of this request and records as submitted on individuals involved indicates that my recent memo on same subject applies in this instance, also.
3. Proposed indorsement attached.



RALPH M. LECHAUSSE
Colonel USAF
Staff Surgeon

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Proposed 1st Ind

T0: Commander Task Group 7.5

Approval is granted for request as in paragraph one of basic communication and for individuals listed in paragraph three of same communication.

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**ENGINEERING SECTION
RADIATION EXPOSURE AS OF 27 JUNE 1958**

RANK	NAME	SERIAL NO.	AFSC	JOB	EXPOSURE IN
MSGT		43171D		Line Chief	1868
MSGT		43171D		Flight Chief	2670
TSGT		43171D		Crew Chief	3783
TSGT		43171D		Manager Chief	3322
TSGT		43171D		Crew Chief	6792
TSGT		43171D		Flight Chief	5354
TSGT		43171D		Engine Build-Up	2307
TSGT		43171D		Crew Chief	4341
SSGT		43171D		Crew Chief	4638
SSGT		43171D		Crew Chief	3502
SSGT		42350		Electrician	2203
SSGT		43151D		Crew Chief	2820
SSGT		43171D		Inspection	7190
SSGT		43171D		Crew Chief	2271
SSGT		43151D		Crew Chief	2419
SSGT		43171D		Crew Chief	3378
SSGT		43171D		Deck Chief	1890
SSGT		43151D		Crew Member	2798
A/1C		43151D		Crew Member	2499
A/1C		43151D		Crew Member	1621
A/1C		43151D		Crew Member	3608
A/1C		53450		Sheet Metal	1921
A/1C		43151D		Crew Member	2278
A/1C		43151D		Crew Member	4238
A/1C		43151D		Crew Member	2765
A/1C		43151D		Dock Member	1940
A/1C		43151D		Crew Member	3541
A/1C		42152		Hydraulic	2386
A/1C		43151D		Crew Member	1489
A/2C		43151D		Crew Member	4509
A/2C		43151D		Crew Member	1921
A/2C		43151D		Crew Member	3721
A/2C		43151D		Crew Member	1968
A/2C		43151D		Crew Member	3808
A/2C		43151D		Dock Member	2207
A/2C		43151D		Crew Member	3084
A/2C		43151D		Dock Member	1880
A/2C		43151D		Crew Member	3736
A/2C		43151D		Crew Member	2843
A/2C		43151D		Dock Member	1718
A/2C		43151D		Dock Member	2894
A/2C		43151D		Dock Member	2890

ENGINEERING SECTION (CONT'D)

RANK	NAME	SERIAL NO.	APPC	JOB	EMPLOYEE NO.
A/20			43250	Engine Build-Up	2115
A/20			43151D	Crew Member	3317
A/20			43151D	Crew Member	1704
A/20			42350	Electrician	2321
A/20			43151D	Inspection	7507
A/20			43151D	Crew Member	2124
A/20			43151D	Crew Member	4160
A/20			43151D	Crew Member	3571
A/20			43151D	Crew Member	2518
A/20			43151D	Crew Member	2998
A/20			43151D	Crew Member	0854
A/20			43250	Engine Build-Up	1950
A/20			43151D	Crew Member	3208

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NUCLEAR APPLICATIONS SECTION
RADIATION EXPOSURE AS OF 27 J

RANK	NAME	SERIAL NO.	AFSC	J	EXPOSURE
TSOT		33171			3870
TSOT		33170			3874
TSOT		33170			4827
TSOT		33170			3753
BSOT		33150			3677
BSOT		33150			3493
BSOT		33170			3031
BSOT		33150			3738
A/1C		33150			2020
A/1C		33150			4832
A/2C		33150			3235
A/2C		33150			4786
A/3C		00010			2319
A/3C		00010			1667
A/3C		00010			4511

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Headquarters
TASK GROUP 7.4, PROVISIONAL
United States Air Force
APO 187, San Francisco, California

1 JUL 1956

SWU

SUBJECT: Radiation Exposures for Certain Task Group 7.4 Men

**TO: Commander
Joint Task Force SEVEN
APO 437, San Francisco, California**

1. Paragraph 6a of Appendix 1 to Annex K to JTF-SEVEN Operation Order No. 1-58 establishes a maximum permissible exposure (MPE) of 5.0r for personnel participating in HARTACK. We find that adherence to this limitation throughout the lengthened HARTACK series, among two small groups of our Task Group 7.4 men, would jeopardize the successful performance of our nuclear cloud sampling mission. These two groups of men are the fifteen (15) NCO's and airmen of the Nuclear Applications Section of our Cloud Sampling Element, and the fifty-five (55) B-57B ground crewmen in the same element (ground crewmen of the B-57D's are being rotated by SAC). Inclosure #1 is a listing of the members of the former group together with the exposure of each of the individuals as of 27 June 1956. Inclosure #2 is a similar listing of the second group.

2. It is requested that MPE's of 10.0r and 8.0r be established for the men listed in Inclosure 1 and 2 respectively.

3. We in Task Group 7.4 are conscious of our responsibility to limit the radiation exposure of our men to an absolute minimum consistent with the need to get our job done.

2 Incls

1. Roster/NCO's&Airmen
(Nuclear Applications)
2. Roster/B-57B Grnd Crew.

**WM B. KIEFFER
Colonel, USAF
Commander**

BEST AVAILABLE COPY

CGO/1903

1st Ind

SUBJECT: Radiation Exposures for Certain Task Group 7.4 Men

HEADQUARTERS JOINT TASK FORCE SEVEN, APO 437, San Francisco, Calif. 9 JUL 1958

TO: Commander, Task Group 7.4, Provisional, APO 157, San Francisco, California

Approval is granted as requested in paragraph 2 of basic communication for the individuals listed in Inclosures 1 and 2.

2 Incls
n/c

A. R. LUEDECKE
Major General, USAF
Commander

General Luedcke	<i>L</i>
General Griffith	
General Dick	
Admiral Tyree	
Doctor Ogle	
DC/S	
Protocol	
J-1	
J-2	
J-3	<i>MAJ RICHIE</i> <i>[Signature]</i>
J-4	
J-5	
Compt	
AG	
AGM/R	<i>[Signature]</i>

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COMD/903
(12 Jul 58)

2d Ind

Headquarters Joint Task Force SEVEN, APO 437, San Francisco, Calif.

TO: Headquarters, Task Group 7.1, APO 437, Box No. 1, San Francisco, Calif.

Approval is granted for additional storage to a total limit of seven (7) roentgens.

A. R. LUKIECKE
Major General, USAF
Commander

BECAUSE OF THE COPY

M/R: Hq TG 7.1 originated ltr stating accumulated over five roentgens radiation exposure and requested approval to retain up to a limit of seven roentgens. 1st Ind from Hq TG 7.1 recommended approval.

Has

[Handwritten signature and initials]

General Luedcke
General Griffith
General Dick
Admiral Tyree
Doctor Ogle
DC/S
Protocol
J-1 5 JUL 1958
J-2
J-3
J-4
J-5
Compt
AG <i>[Signature]</i>
AGN/P <i>[Signature]</i>

Major General A. F. Lambeth

- 2 -

JUN 23 1958

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FOR THE COMMANDER

J. B. ...
Deputy Commander

Copies furnished:
WASDC, WDC, Wash., D. C.
C. E. ...
...
Central

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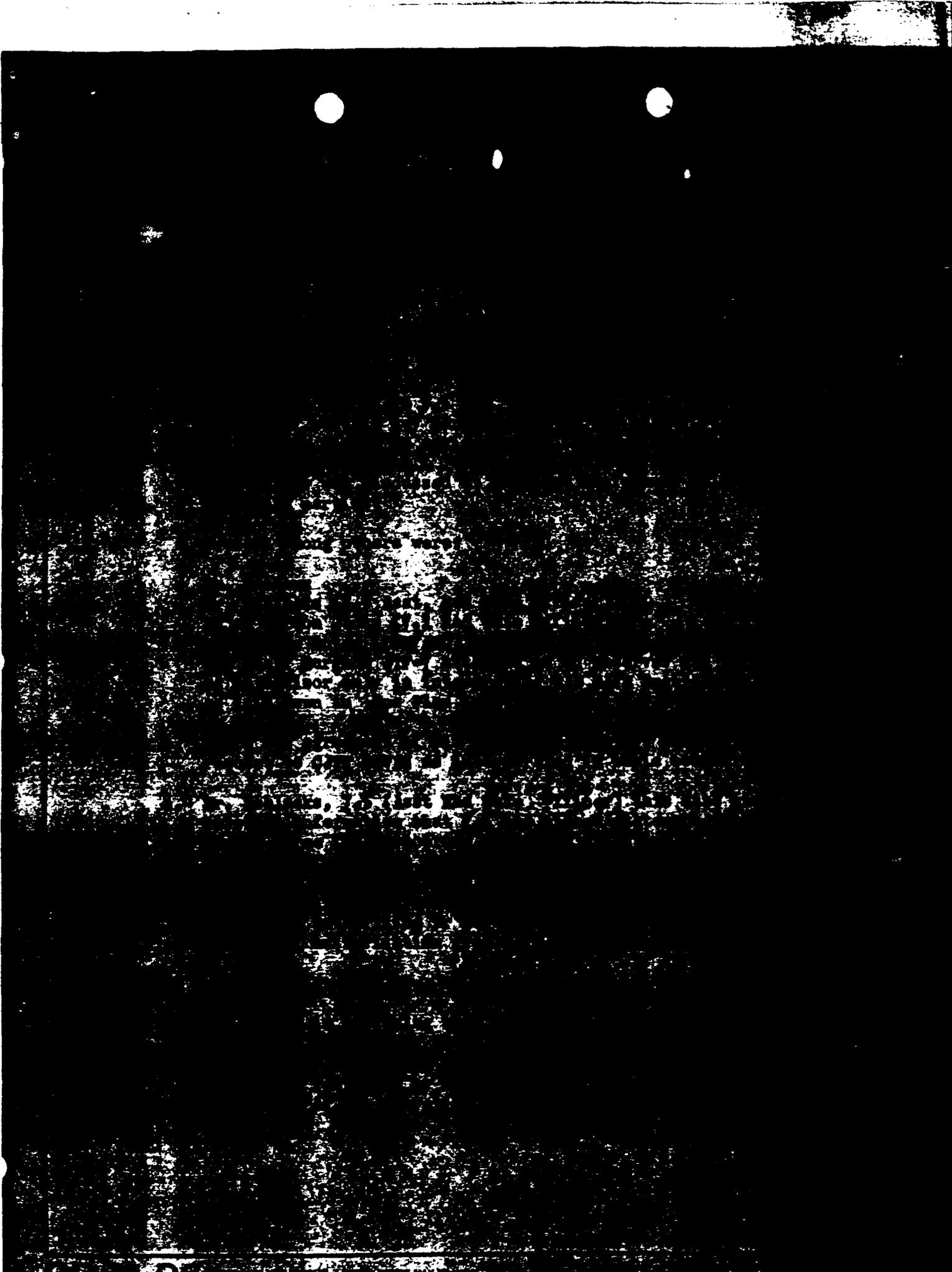
General Lusdecke
General Griffith
General Dick
Admiral Daspit
Doctor Ogle
DC/S
SJS
J-1
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J-3
J-4
J-5
Richie
JACKS
MR. KLEMENT
DAV

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✓

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MEMORANDUM TO COMMANDER:

Staff Surgeon

24 June 1958

- c. No violation of existing NCRP or AEC recommendations or directives will occur.
- d. Paragraph 3 of basic communication is pertinent.
3. Finally, it is pointed out that Mr. Sanders and all concerned are fully aware that compliance with the documents mentioned in 3 c above is ultimately and solely the responsibility of the employer.


RALPH M. LECHAUSSE
Colonel USAF
Staff Surgeon

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COMM/ 903

1st Ind

28 June 1958

SUBJECT: Dosage Increase (27 June 1958)

Headquarters, Joint Task Force SEVEN, APO 437 San Francisco, California

To: Commander, Task Group 7.5, APO 435, San Francisco, California

Approval is granted for request as in paragraph one of basic communication and for individuals listed in paragraph three of same communication.

A. R. LUEDECKE
Major General, USAF
Commander

Copies furnished:
USAEAC, DBM, Wash., D. C.
C. Weaver, ALO
Chrono
Central

General Luedecke
General Griffith
General Dick
Admiral Lyree
Doctor Ogle
DC/S
SJS
J-1
J-2
J-3
J-4
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Major General A. H. Yastinski

- 2 -

JUN 27 1958

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FOR THE COMMANDER

**JAMES H. [REDACTED]
Deputy Commander**

**Copies Furnished:
USAC, Hqs, Wash., D. C.
G. Weaver, ALO
Chromo
Control**

RE SY [REDACTED]

903
1-3

**Headquarters
TASK GROUP 7.4, PROVISIONAL
United States Air Force
APO 187, San Francisco, California**

19 JUN 1958

INFO

SUBJECT: Letter of Transmittal

TO: Comdr, VP-28 Squadron

**GJTF-SEVEN
ATTN: Rad-Safe Office**

Forwarded for your information.

FOR THE COMMANDER:

**1 Incl
Memo for Record,
Subj: Contaminated PZV,
dated 9 June 1958**

Joseph K. Kyrle
**JOSEPH K. KYRLE
Lt Colonel, USAF
Deputy Director of Operations**

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**Headquarters
TASK GROUP 7.4, PROVINCIAL
United States Air Force
APO 187, San Francisco, California**

13 JUN 1958

BTUO

SUBJECT: Letter of Transmittal

TO: Comdr, WP-28 Squadron

GJTF-SEVEN

ATTN: Rad-Safe Officer

Forwarded for your information.

FOR THE COMMANDER:

**1 Incl
Memo for Record,
Subj: Contaminated P2V,
dated 9 June 1958**

**JOSEPH K. MYRNE
Lt Colonel, USAF
Deputy Director of Operations**

BEST AVAILABLE COPY

Headquarters
TASK GROUP 7.4, PROVINCIAL
United States Air Force
APO 287, San Francisco, California

8/80

JUN 9 - 1958

MEMORANDUM FOR RECORD:

SUBJECT: Contaminated PVV

1. The following information concerns Navy PVV aircraft no. 1166 whose mission was Rad-Safe Reconnaissance and Barrier Patrol at Eniwetok on 27 May 1958. This aircraft was being vectored by JTV-7 Rad-Safe in order to obtain the exact path of a radio active cloud. The aircraft commander's instructions included a requirement to turn out of any radiation field exceeding 3 roentgens per hour. Prior to flying the mission the air vents on the aircraft had been closed. Instructions were being passed by the EACC by radio from JTV-7 Rad-Safe to the PVV, and radiation intensities were being relayed in the same way from the aircraft to JTV-7 Rad-Safe. **BEST AVAILABLE COPY**

2. Because a portion of the cloud, believed to be 15 miles distant, was actually 7 miles distant the PVV began observing an early rise on its radium equipment. The pilot turned out but in doing so penetrated a very small cloud. On emerging it was noted that the aircraft had become contaminated in that the radiation level held constant. A reading of 8,000 mr/hr was noted in the nose of the aircraft. The aircraft commander requested permission to return to "FRID" Island and permission was granted.

3. On landing, the aircraft was monitored and found to be contaminated as follows:

<u>Exterior</u>	27/0900H
a. Nose area	5,000 mr/hr (Gamma)
b. Dumbay area	600 mr/hr (Gamma)
c. Left Recip Engine	8,000 mr/hr (Gamma)
d. Right Recip Engine	5,000 mr/hr (Gamma)
e. Left wheel well	120 mr/hr (Gamma)
f. Right wheel well	300 mr/hr (Gamma)
g. Left jet engine	800 mr/hr (Gamma)
h. Right jet engine	700 mr/hr (Gamma)
i. Tail area	120 mr/hr (Gamma)

BEST AVAILABLE COPY

8700, Sq 20 7.1, Subj: Contaminated F27

The aircraft was isolated and allowed to decay. Because of the high exterior intensities, interior monitoring was postponed. The crew was processed through the personnel decontamination center and monitoring revealed that their clothing and exposed skin were contaminated to levels of 7 mr/hr or less. Normal personnel decontamination reduced all contamination to background level and the crew was released. Film-badges were taken immediately to Test Unit 6 of 20 7.1 for processing to determine exposure. A second monitoring of the aircraft six and a half hours later revealed the following.

<u>Exterior</u>	27/1530H
a. Nose	800 mr/hr (Gamma)
b. Bombay	240 mr/hr (Gamma)
c. Left Recip Engine	1,800 mr/hr (Gamma)
d. Right Recip Engine	1,400 mr/hr (Gamma)
e. Left wheel well	60 mr/hr (Gamma)
f. Right wheel well	60 mr/hr (Gamma)
g. Left jet engine	180 mr/hr (Gamma)
h. Right jet engine	125 mr/hr (Gamma)
i. Tail	16 mr/hr (Gamma)
j. Radar dome forward	2,600 mr/hr (Gamma)

<u>Interior</u>	
a. Radar wall	230 mr/hr (Gamma)
b. Forward cockpit	200 mr/hr (Gamma)
c. Flight deck	60 mr/hr (Gamma)
d. Radio compartment	20 mr/hr (Gamma)
e. After station	12 mr/hr (Gamma)
f. Row observers station	500 mr/hr (Gamma)
g. Bombay	60 mr/hr (Gamma)

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FWO, HQ 33 7th, Subj: Contaminated F27

At 1800 hours the aircraft was moved to the decontamination area and cleaned with 5,000 gallons of high pressure water at 115°F. A final monitoring of the aircraft indicated the following:

	<u>Exterior</u>	RA/0800H
a. Nose		9 nr/hr (Gamma)
b. Fuselage		21 nr/hr (Gamma)
c. Left Radial engine		150 nr/hr (Gamma)
d. Right Radial engine		150 nr/hr (Gamma)
e. Left wheel well		12 nr/hr (Gamma)
f. Right wheel well		14 nr/hr (Gamma)
g. Left jet engine		22 nr/hr (Gamma)
h. Right jet engine		23 nr/hr (Gamma)
i. Tail		20 nr/hr (Gamma)
j. Radar dome forward		100 nr/hr (Gamma)
	<u>Interior</u>	
a. Fuselage		14 nr/hr (Gamma)
b. Radar well		20 nr/hr (Gamma)
c. Forward cockpit		30 nr/hr (Gamma)
d. Flight deck		12 nr/hr (Gamma)
e. Radio compartment		4 nr/hr (Gamma)
f. After station		6 nr/hr (Gamma)
g. Two observers station		60 nr/hr (Gamma)

The aircraft was released to Commander Hart with the advice that although the radiation levels were greatly reduced they still exceeded in some cases the recommended levels established by Appendix 1 to Annex K to JTF-7 Operation Plan Number 1-58, dated 8 February 1958 (i.e. 7nr/hr /Beta and Gamma/ on the interior and 7 nr/hr /Gamma/ on the exterior, measured at 6 inches from the surface). Radioactive decay would, in a matter of 12 to 72 hours appreciably reduce the interior contamination. Use of the aircraft would depend entirely on operational requirements.

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2000, HQ 20 7.4, Subj: Contaminated F2V

Film badge analysis indicated the following exposures:

Film Badge No. 28784	873	MF
Film Badge No. 28793	873	MF
Film Badge No. 28905	980	MF
Film Badge No. 28763	216	MF
Film Badge No. 28871	399	MF
Film Badge No. 28769	221	MF
Film Badge No. 28969	127	MF
Film Badge No. 28906	95	MF
Film Badge No. 28870	639	MF
Film Badge No. 28872	183	MF

L. Dewey E. Allen Jr.
LEDEWEY E. ALLEN JR.
Captain, USAF
Nuclear Research Officer

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000/903
SUBJECT: **Design Increases (Jan 23, 58)**

1st Ind

24 June 1958

COMBANDER, JOINT TASK FORCE SEVEN, APO 437, San Francisco, California.

TO: Commander, Task Group 7.5, APO 435, San Francisco, California

Approval is granted for request as stated in paragraph 1 of ~~the~~ ^{General} ~~consideration~~ and for the individuals listed in paragraph 3 of ~~the~~ ^{Lindbeck}

[Handwritten signature]

A. E. LINDBECK
Major General, USAF
Commander

Copies furnished:
USAC, USAF, Wash., D.C.
C. H. Weaver, Maj, USAF, APO

Lindbeck
General Griffith
General Dick
Admiral Tyree
Doctor Ogle
DC/S
Protocol
J-1
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AG <i>[Signature]</i>

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Headquarters
Task Unit 7.1.3, Task Group 7.1
APO 437, P. O. Box 3
San Francisco, California

TU 3 58 0253

APR 12 1958

SUBJECT: Radiation Dose Limits for Operation HARDTACK (U)

THRU: Commander
Task Group 7.1
APO 437
San Francisco, California

TO: Commander
Joint Task Force SEVEN
APO 437
San Francisco, California

1. It is requested that personnel of Projects 1.9 and 3.6 be authorized the increase in radiation exposure limit to 5.0 r per 13 - week period. These two projects will participate on the CACTUS and KOA events, and the increase in radiation exposure limits is considered necessary in this case to permit effective recovery of project data.

2. Inclosure (1) includes the approval by the U.S.A.F., Air Research and Development Command of such an increase in radiation dosage for Projects 1.9 and 3.6 personnel to 5.0 r per 13 - week period.

Doesn't make a thing of this

1 Incl:
Ltr SWRS HQ, AFSWC, dtd 23 Jan 58, same subj. with 1st Ind

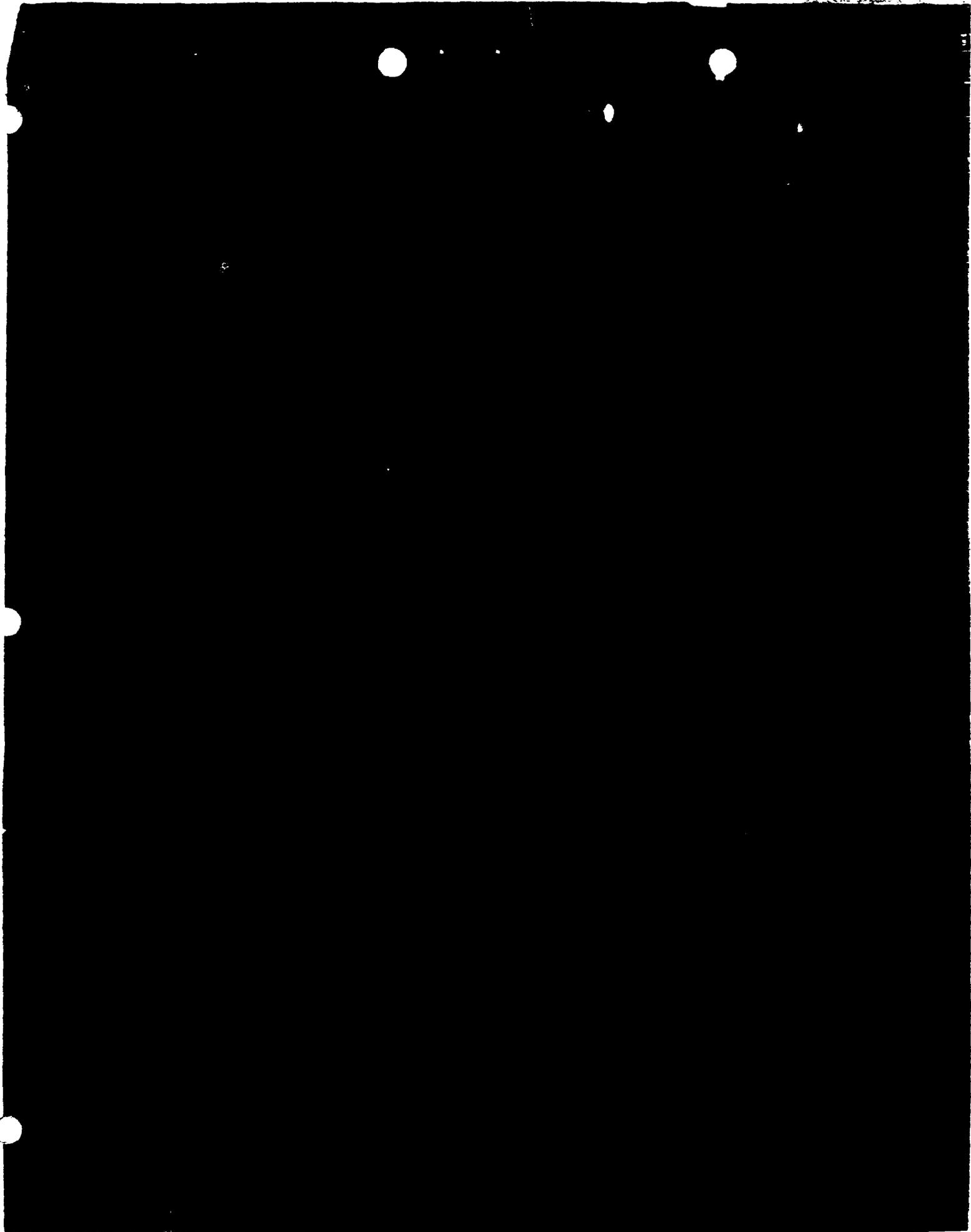


K. D. COLEMAN
Colonel, USAF
Commander

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[REDACTED]





103
2-3

28 April 1958

MEMORANDUM FOR Commander Task Group 7.4

SUBJECT: Radar Tracking of Sampling Aircraft for Pinon

1. This will confirm conversations held between Colonel Wignall, Dr. R. Batsel and myself on the tracking plan. The purpose of providing for a tracking system is fundamentally to add plausibility that the sampling mission was conducted in a straight-forward manner. It will not be the intent, however, to try to indicate to the U.N. Observers or to the press, that the tracking system is a Proof that the sampling mission was in fact carried out as shown.

2. To appropriately accomplish the radar tracking scheme, it is requested that TG 7.4 provide a briefing on the radar system to the observers on D-1 or D-2 to familiarize them with the system and equipment. As part of the briefing it would be desirable to have one of the B-57 B sampling aircraft make a take-off, fly a short pattern, and land so the observers can see how the system operates.

3. On shot day, if the U.N. observers desire it, they will be permitted to track the sampling aircraft as they carry out their mission. Selected members of the press should be allowed to be in the AOC in the gallery during this period. The radars should be set for a range, probably 150 miles, such that the planes in flight will not pass off the scope. All radars should be set up the same way. It also would be desirable to plot on the large plotting board a continuous track of the courses followed by the aircraft from take-off to landing.

4. We would appreciate your comments on the above proposal.

BEST AVAILABLE COPY.

G. W. JOHNSON
Technical Director,
Pinon

cc: CJTF 7 ✓
CTG 7.1
CTU-2
R. Batsel
P. Bankhart
R. Southwick
G. Johnson

0.3



1217-JFE
(12 Apr 58)

1st Ind

SUBJECT: Radiation Dose Limits for Operation HARDTACK (U)

HEADQUARTERS, TASK GROUP 7.1, JTF SEVEN, APO 437, San Francisco, California
3 May 1958.

TO: Commander, Joint Task Force SEVEN, APO 437, San Francisco, California

1. Recommend approval.

2. This matter has been thoroughly discussed with the program directors and the project personnel. Considering the location of the recovery stations and the limited time available for recovery prior to the next shots in the same areas, plus the probable contamination that will result from detonation of the two devices, it is felt that the increase in the 13 week exposure limit is justified in order to guarantee recovery of the scientific data by the personnel involved. There is a strong possibility that the value of the programs will be seriously impaired if the dosage limitation is not raised.

3. Every effort will be made to keep the exposures well under the limit requested. Radiological safety personnel of this organization will maintain a close contact with personnel concerned and follow cumulative dosage totals in detail to assure the safety of the individuals participating.

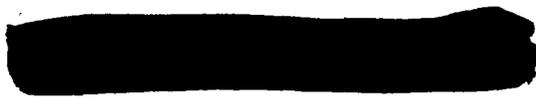
FOR THE COMMANDER:


GORDON L JACKS
Major CMLC
Commander, TU-6

DISTRIBUTION:

- 1 & 2 - Addressee ←
- 3 - CTG 7.1
- 4 - CTU-6
- 5 & 6 - M&R

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HEADQUARTERS
TASK GROUP 7.1
Joint Task Force SEVEN
P. O. Box 1663
Los Alamos, New Mexico

11 March 1958

SUBJECT: Task Group 7.1 Radiological Safety Regulations for Operation HARDTACK

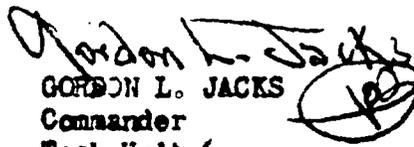
TO: Distribution

1. Transmitted herewith is a copy of the radiological safety regulations that will apply to all Task Group 7.1 personnel during Operation HARDTACK.

2. Your attention is invited to that portion of the regulations concerning film badges. Each individual in the Task Group will be issued a film badge that is to be worn at all times. Dog-tag chains will be provided for a convenient means of wearing the badges. If preferred, individuals may attach the film badge to the security badge rather than using the dog-tag chain. Film badges will be exchanged periodically by all personnel. In addition, upon return from any mission in a contaminated area, badges should be exchanged at the Rad-Safe Center.

3. It is realized that these regulations will not cover all cases that may arise, personnel assigned to Task Unit 6 will be available to advise and assist in handling the problem.

FOR THE COMMANDER:


GORDON L. JACKS
Commander
Task Unit 6

1 Incl
Rad-Safe Regulations

GLJ/py
DISTRIBUTION:
Total

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RAD-SAFE REGULATIONS

I. RESPONSIBILITIES.

A. The Commander, Joint Task Force SEVEN, is responsible for all radiological safety during Operation HARDPACK. The responsibility for general on-site (Eniwetok and Bikini Atolls) radiological safety operations has been delegated to the Commander, Task Group 7.1.

B. The Commander, Task Unit 6, Task Group 7.1, will exercise overall supervision and control for CTG 7.1 on all radiological safety matters.

C. Task Unit Commanders are responsible for the radiological safety of members of their task units. In addition, during operations in contaminated areas, project and party leaders are responsible for radiological safety of the parties and for compliance with these regulations.

II. RADIOLOGICAL SAFETY OPERATIONS.

A. TU-6 rad-safe support services will include:

1. Continuing surveys of the radiological situation at EPO, to include plotting and briefing facilities capable of portraying past and current radiological situations. Reports and maps will be prepared for distribution.
2. Monitoring assistance, training, and advice as requested.
3. Maintenance and issue of monitoring instruments and protective clothing as required.
4. Personnel dosimetry and records service (to include all of JTF SEVEN).
5. Decontamination facilities for personnel, vehicles, and equipment.

B. Exposure Guides and Dosage Control.

1. The total permissible exposures to participating personnel are as follows:

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- a. Gamma: 3.75 roentgens per consecutive 13-week period, with a maximum of 5.0 roentgens for the Operation. Personnel whose previous radiation dose history indicates that their total accumulated dose to 1 January 1958 is in excess of or equal to $5(N-18)$ roentgens, where N is the age on 1 January 1958, will under no circumstances be allowed to exceed the 5.0 R maximum for the Operation.
 - b. Alpha: 10,000 exposure units for any consecutive 13-week period computed by multiplying the average air concentration in the area of exposure in d/m³ by the hours of exposure. This is to be used in all cases where personnel are not using respiratory protection in an alpha-contaminated area. Natural alpha background is not included in the 10,000 units.
2. The tolerance level for vehicle contamination will be as follows:
 - a. 7 mr/hr gamma plus beta inside and 7 mr/hr gamma only outside.

- b. 500 c/m/55cm² fixed alpha. By "fixed" alpha is meant that no change in the alpha contamination level can be observed by swiping a 100cm² area. (55cm² is the area of the normal "Pee Wee" probe.)
 - c. 200 c/m/55cm² removable alpha.
3. The tolerance level for personnel contamination will be as follows:
 - a. 7 mr/hr gamma plus beta for outer clothing and shoes, 1 mr/hr gamma on skin or personal clothing. Personnel decontamination will be performed when these levels are exceeded.
 4. The tolerance level for equipment removed from contaminated areas will be as follows:
 - a. 7 mr/hr gamma only.
 - b. 500 c/m/55cm² fixed alpha. Decontamination will be performed in the field with portable decontamination equipment prior to return to the main decontamination station if the level exceeds 5,000 c/m/55cm².
 5. In the event that reasonable decontamination procedures cannot reduce contamination levels below those levels listed above, TU-6 will issue appropriate instructions.
 6. All personnel will be issued film badges and charge-a-plates on arrival at EPG. The film badge will be worn at all times. In addition, badges will be exchanged after each entry into a contaminated area (exceptions to this will be made in the case of continuing access permits. See below). Lost badges should be reported immediately to TU-6. On return to home station badges will be turned in as part of the EPG check out procedures.
 7. TU-6 will process film badges and submit dosage records to Task Unit Commanders on a daily basis. In addition, special reports will be issued on all personnel reaching or exceeding the 20 roentgen cumulative dose total. Dosage information may be obtained informally at any time by calling the photo-dosimetry section at the TU-6 Rad-Safe Center.

C. Entry into Contaminated Areas.

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1. Radex (radiological exclusion) areas are defined as follows:
 - a. Full Radex Area: Contamination level of 100 mr/hr or higher.
 - b. Limited Radex Area: Contamination level of 10 mr/hr but less than 100 mr/hr.
 - c. Non Radex Area: Contamination level less than 10 mr/hr.
2. Entry into a full radex area will require full protective clothing. In addition, a qualified monitor must accompany any party entering a full radex area. Entry into a limited radex area will require such protective clothing and monitoring support as is deemed necessary by the plotting and briefing section, TU-6.

3. Entry of personnel into contaminated areas (full and limited radex) will require access permits. The access permit will signify that all rad-safe procedures have been complied with. These access permits will be issued to party monitors or party leaders by the plotting and briefing section TU-6 at Rad-Safe Center.
4. Recovery and construction parties will be allowed to enter contaminated areas as desired dependent upon the current radiological situation. Actual control of early entry on D-Day will be exercised by the J-1 Section, Task Group 701.
5. Check points for control of entry into contaminated areas will be established by TU-6 as required. Normally, check points will be maintained at the Air Dispatcher's Office and the marine landing. Personnel departing for contaminated areas should have access permits prior to passing the check points. Upon return from a contaminated area, personnel and equipment will be monitored at the check points. Personnel or equipment found to be contaminated above the tolerance levels will be directed to the appropriate decontamination station. All personnel should proceed to the Rad-Safe Center to exchange film badges upon return from a contaminated area.
6. Task Unit Commanders may arrange for continuing access permits into contaminated areas for personnel in their Task Units. These continuing access permits are designed to allow frequent entry to and exit from a contaminated area without following all radiological safety regulations on each and every entry and exit. All requests for continuing access permits will be approved by CTU-6. These permits may be withdrawn at any time, depending on the radiological situation. In general, continuing access permits will be good only until another device is fired or certain individual cumulative dosage totals are reached.
7. Projects will provide their own monitors for entry into contaminated areas. In the event monitors cannot be provided by the project, arrangements will be made with TU-6 for supply of the required monitors. Monitors assigned to individuals or groups working in contaminated areas or with contaminated equipment during recovery operations will act in an advisory capacity to keep the recovery party leader informed of radiation intensities at all times. Since the party leader is responsible for the radiological safety of all members of his party he is expected to accept the monitor's advice and act accordingly. It is the responsibility of both the leader and the members of the recovery party to adhere to the limits established in these regulations.
8. Party monitors, and any others deemed necessary, shall be briefed by the TU-6 plotting and briefing section prior to receipt of an access permit.
9. TU-6 will train monitors for the various projects as required.
10. When eating or smoking in any contaminated area, sensible sanitary precautions should be taken.

III. MISCELLANEOUS.

BEST AVAILABLE COPY

A. All radioactive material brought into the Eniwetok Proving Ground, with the exception of Source and Special Nuclear Material, will be registered by project leaders with CTU-6. Information concerning the nature of any radioactive material,

source strength, and location (by building) is required. This information is desired primarily for the protection of the fire department in the event of fire.

B. No contaminated material will be removed from the EFG without the prior approval of CTO 7.1. All such materials or equipment which are to be removed will be monitored, packaged, labeled and loaded so as to satisfy pertinent regulations concerning shipment of radioactive materials. Such material that will travel by commercial means or unescorted shipment on NARS must be packaged in accordance with Interstate Commerce Commission regulations. T-5 personnel will assist project and J-4 personnel in determining the packaging requirements.

C. Task Unit Commanders are responsible for providing CTO-5 with lists of qualified monitors within their Task Units. CTO-6 will assist the Task Unit Commanders in qualifying personnel if so desired.

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HEADQUARTERS
TASK GROUP 7.1
Joint Task Force SEVEN
P. O. Box 1663
Los Alamos, New Mexico

11 March 1958

SUBJECT: Task Group 7.1 Radiological Safety Regulations for Operation HARDTACK

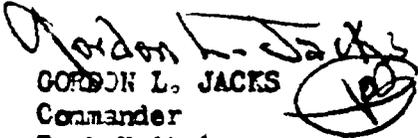
TO: Distribution

1. Transmitted herewith is a copy of the radiological safety regulations that will apply to all Task Group 7.1 personnel during Operation HARDTACK.

2. Your attention is invited to that portion of the regulations concerning film badges. Each individual in the Task Group will be issued a film badge that is to be worn at all times. Dog-tag chains will be provided for a convenient means of wearing the badges. If preferred, individuals may attach the film badge to the security badge rather than using the dog-tag chain. Film badges will be exchanged periodically by all personnel. In addition, upon return from any mission in a contaminated area, badges should be exchanged at the Rad-Safe Center.

3. It is realized that these regulations will not cover all cases that may arise, personnel assigned to Task Unit 6 will be available to advise and assist in handling the problem.

FOR THE COMMANDER:


GORDON L. JACKS
Commander
Task Unit 6

1 Incl
Rad-Safe Regulations

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RAD-SAFE REGULATIONS

I. RESPONSIBILITIES.

A. The Commander, Joint Task Force SEVEN, is responsible for all radiological safety during Operation HARDTACK. The responsibility for general on-site (Eniwetok and Bikini Atolls) radiological safety operations has been delegated to the Commander, Task Group 7.1.

B. The Commander, Task Unit 6, Task Group 7.1, will exercise overall supervision and control for CTG 7.1 on all radiological safety matters.

C. Task Unit Commanders are responsible for the radiological safety of members of their task units. In addition, during operations in contaminated areas, project and party leaders are responsible for radiological safety of the parties and for compliance with these regulations.

II. RADIOLOGICAL SAFETY OPERATIONS.

A. TU-6 rad-safe support services will include:

1. Continuing surveys of the radiological situation at EPO, to include plotting and briefing facilities capable of portraying past and current radiological situations. Reports and maps will be prepared for distribution.
2. Monitoring assistance, training, and advice as requested.
3. Maintenance and issue of monitoring instruments and protective clothing as required.
4. Personnel dosimetry and records service (to include all of JTF SEVEN).
5. Decontamination facilities for personnel, vehicles, and equipment.

B. Exposure Guides and Dosage Control.

1. The total permissible exposures to participating personnel are as follows:

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- a. Gamma: 3.75 roentgens per consecutive 13-week period, with a maximum of 5.0 roentgens for the Operation. Personnel whose previous radiation dose history indicates that their total accumulated dose to 1 January 1958 is in excess of or equal to $5(N-18)$ roentgens, where N is the age on 1 January 1958, will under no circumstances be allowed to exceed the 5.0 R maximum for the Operation.
 - b. Alpha: 10,000 exposure units for any consecutive 13-week period computed by multiplying the average air concentration in the area of exposure in d/m³ by the hours of exposure. This is to be used in all cases where personnel are not using respiratory protection in an alpha-contaminated area. Natural alpha background is not included in the 10,000 units.
2. The tolerance level for vehicle contamination will be as follows:
 - a. 7 mr/hr gamma plus beta inside and 7 mr/hr gamma only outside.

- b. 500 c/m/55cm² fixed alpha. By "fixed" alpha is meant that no change in the alpha contamination level can be observed by wiping a 100cm² area. (55cm² is the area of the normal "Pee Wee" probe.)
 - c. 200 c/m/55cm² removable alpha.
3. The tolerance level for personnel contamination will be as follows:
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 4. The tolerance level for equipment removed from contaminated areas will be as follows:
 - a. 7 mr/hr gamma only.
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 5. In the event that reasonable decontamination procedures cannot reduce contamination levels below those levels listed above, CTU-6 will issue appropriate instructions.
 6. All personnel will be issued film badges and charge-a-plates on arrival at EPG. The film badge will be worn at all times. In addition, badges will be exchanged after each entry into a contaminated area (exceptions to this will be made in the case of continuing access permits. See below). Lost badges should be reported immediately to TU-6. On return to home station badges will be turned in as part of the EPG check out procedures.
 7. TU-6 will process film badges and submit dosage records to Task Unit Commanders on a daily basis. In addition, special reports will be issued on all personnel reaching or exceeding the 2.0 roentgen cumulative dose total. Dosage information may be obtained informally at any time by calling the photo-dosimetry section at the TU-6 Rad-Safe Center.
- C. Entry into Contaminated Areas.
1. Radex (radiological exclusion) areas are defined as follows:
 - a. Full Radex Area: Contamination level of 100 mr/hr or higher.
 - b. Limited Radex Area: Contamination level of 10 mr/hr but less than 100 mr/hr.
 - c. Non Radex Area: Contamination level less than 10 mr/hr.
 2. Entry into a full radex area will require full protective clothing. In addition, a qualified monitor must accompany any party entering a full radex area. Entry into a limited radex area will require such protective clothing and monitoring support as is deemed necessary by the plotting and briefing section, TU-6.

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3. Entry of personnel into contaminated areas (full and limited radex) will require access permits. The access permit will signify that all rad-safe procedures have been complied with. These access permits will be issued to party monitors or party leaders by the plotting and briefing section TU-6 at Rad-Safe Center.
4. Recovery and construction parties will be allowed to enter contaminated areas as desired dependant upon the current radiological situation. Actual control of early entry on D-Day will be exercised by the J-3 Section, Task Group 7.1.
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BEST AVAILABLE COPY

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source strength, and location (by building) is required. This information is desired primarily for the protection of the fire department in the event of fire.

B. No contaminated material will be removed from the EFG without the prior approval of CTC 7.2. All such materials or equipment which are to be removed will be monitored, packaged, labeled and loaded so as to satisfy pertinent regulations concerning shipment of radioactive materials. Such material that will travel by commercial means or unescorted shipment on MARS must be packaged in accordance with Interstate Commerce Commission regulations. TU-6 personnel will assist project and J-4 personnel in determining the packaging requirements.

C. Task Unit Commanders are responsible for providing CTU-6 with lists of qualified monitors within their Task Units. CTU-6 will assist the Task Unit Commanders in qualifying personnel if so desired.

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HEADQUARTERS
TASK GROUP 7.1
Joint Task Force SEVEN
P. O. Box 1663
Los Alamos, New Mexico

11 March 1958

SUBJECT: Task Group 7.1 Radiological Safety Regulations for Operation HARDTACK

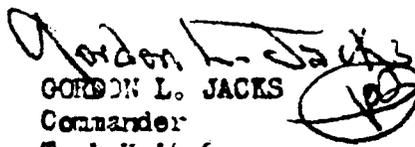
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2. Your attention is invited to this portion of the regulations concerning film badges. Each individual in the Task Group will be issued a film badge that is to be worn at all times. Dog-tag chains will be provided for a convenient means of wearing the badges. If preferred, individuals may attach the film badge to the security badge rather than using the dog-tag chain. Film badges will be exchanged periodically by all personnel. In addition, upon return from any mission in a contaminated area, badges should be exchanged at the Rad-Safe Center.

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Commander
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2. The tolerance level for vehicle contamination will be as follows:
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 5. In the event that reasonable decontamination procedures cannot reduce contamination levels below those levels listed above, TU-6 will issue appropriate instructions.
 6. All personnel will be issued film badges and charge-a-plates on arrival at EPC. The film badge will be worn at all times. In addition, badges will be exchanged after each entry into a contaminated area (exceptions to this will be made in the case of continuing access permits. See below). Lost badges should be reported immediately to TU-6. On return to home station badges will be turned in as part of the EPC check out procedures.
 7. TU-6 will process film badges and submit dosage records to Task Unit Commanders on a daily basis. In addition, special reports will be issued on all personnel reaching or exceeding the 2.0 roentgen cumulative dose total. Dosage information may be obtained informally at any time by calling the photo-dosimetry section at the TU-6 Rad-Safe Center.

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4. Recovery and construction parties will be allowed to enter contaminated areas as desired dependent upon the current radiological situation. Actual control of early entry on D-Day will be exercised by the J-3 Section, Task Group 701.
5. Check points for control of entry into contaminated areas will be established by TU-6 as required. Normally, check points will be maintained at the Air Dispatcher's Office and the marine landing. Personnel departing for contaminated areas should have access permits prior to passing the check points. Upon return from a contaminated area, personnel and equipment will be monitored at the check points. Personnel or equipment found to be contaminated above the tolerance levels will be directed to the appropriate decontamination station. All personnel should proceed to the Rad-Safe Center to exchange film badges upon return from a contaminated area.
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T400-
903-3
File 556-
Pml

J3-H-674

1st Ind

SUBJECT: Request of HARDTACK Project 3.4 for Change in Radiation Dosage Limit (U)

HEADQUARTERS TASK GROUP 7.1 Joint Task Force SEVEN, P. O. Box 1663, Los Alamos, New Mexico, 17 February 1958

TO: Commander
Joint Task Force SEVEN
Arlington Hall Station
Arlington 12, Virginia

Concur in paragraph 4 of basic letter.

FOR THE COMMANDER:

EAL/rjd

DISTRIBUTION:

- 2 - CJTF SEVEN
- 1 - FC/AFSWP (Pickett)
w/o basic
- 1 - CTG 7.1 (Shuster)
w/o basic
- 1 - Project 3.4 Long Beach
Naval Shipyard (Murray)
c/o Code 242 w/o basic
- 1 - COM, Norfolk Naval Shipyard,
Portsmouth, Va., ATTN: UERD
for Code 270 w/o basic
- 2 - M&R, LASL w/o basic
- 1 - J-3 (files)

E. A. LUCKE
J-3
Plans & Operations

Copy our 24 Jan 58 reply to
COM Norfolk Naval Shipyard
forwarded FC 21 Feb 58 -
Schauer

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HEADQUARTERS
TASK GROUP 7.1
Joint Task Force SEVEN
P. O. Box 1663
Los Alamos, New Mexico

11 March 1958

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FOR THE COMMANDER:

Gordon L. Jacks
GORDON L. JACKS
Commander
Task Unit 6

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GLI/py
DISTRIBUTION:
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C. Entry into Contaminated Areas.

1. Radex (radiological exclusion) areas are defined as follows:
 - a. Full Radex Area: Contamination level of 100 mr/hr or higher.
 - b. Limited Radex Area: Contamination level of 10 mr/hr but less than 100 mr/hr.
 - c. Non Radex Area: Contamination level less than 10 mr/hr.
2. Entry into a full radex area will require full protective clothing. In addition, a qualified monitor must accompany any party entering a full radex area. Entry into a limited radex area will require such protective clothing and monitoring support as is deemed necessary by the plotting and briefing section, TU-6.

3. Entry of personnel into contaminated areas (full and limited radex) will require access permits. The access permit will signify that all rad-safe procedures have been complied with. These access permits will be issued to party monitors or party leaders by the plotting and briefing section TU-6 at Rad-Safe Center.
4. Recovery and construction parties will be allowed to enter contaminated areas as desired dependent upon the current radiological situation. Actual control of early entry on D-Day will be exercised by the J-3 Section, Task Group 7.1.
5. Check points for control of entry into contaminated areas will be established by TU-6 as required. Normally, check points will be maintained at the Air Dispatcher's Office and the marine landing. Personnel departing for contaminated areas should have access permits prior to passing the check points. Upon return from a contaminated area, personnel and equipment will be monitored at the check points. Personnel or equipment found to be contaminated above the tolerance levels will be directed to the appropriate decontamination station. All personnel should proceed to the Rad-Safe Center to exchange film badges upon return from a contaminated area.
6. Task Unit Commanders may arrange for continuing access permits into contaminated areas for personnel in their Task Units. These continuing access permits are designed to allow frequent entry to and exit from a contaminated area without following all radiological safety regulations on each and every entry and exit. All requests for continuing access permits will be approved by CTU-6. These permits may be withdrawn at any time, depending on the radiological situation. In general, continuing access permits will be good only until another device is fired or certain individual cumulative dosage totals are reached.
7. Projects will provide their own monitors for entry into contaminated areas. In the event monitors cannot be provided by the project, arrangements will be made with TU-6 for supply of the required monitors. Monitors assigned to individuals or groups working in contaminated areas or with contaminated equipment during recovery operations will act in an advisory capacity to keep the recovery party leader informed of radiation intensities at all times. Since the party leader is responsible for the radiological safety of all members of his party he is expected to accept the monitor's advice and act accordingly. It is the responsibility of both the leader and the members of the recovery party to adhere to the limits established in these regulations.
8. Party monitors, and any others deemed necessary, shall be briefed by the TU-6 plotting and briefing section prior to receipt of an access permit.
9. TU-6 will train monitors for the various projects as required.
10. When eating or smoking in any contaminated area, sensible sanitary precautions should be taken.

III. MISCELLANEOUS.

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A. All radioactive material brought into the Eniwetok Proving Ground, with the exception of Source and Special Nuclear Material, will be registered by project leaders with CTU-6. Information concerning the nature of the radioactive material,

source strength, and location (by building) is required. This information is desired primarily for the protection of the fire department in the event of fire.

B. No contaminated material will be removed from the EFG without the prior approval of CTG 7.2. All such materials or equipment which are to be removed will be monitored, packaged, labeled and loaded so as to satisfy pertinent regulations concerning shipment of radioactive materials. Such material that will travel by commercial means or unescorted shipment on HATS must be packaged in accordance with Interstate Commerce Commission regulations. TU-5 personnel will assist project and J-4 personnel in determining the packaging requirements.

C. Task Unit Commanders are responsible for providing CTU-6 with lists of qualified monitors within their Task Units. CTU-6 will assist the Task Unit Commanders in qualifying personnel if so desired.

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FORM 960-A 44

**SUBJECT: Request of HADTASH Project 3-A For Change in Radiation
Damage Limit**

Copies Furnished (Cont'd):

**Dr. Murray, Project Officer, Project
3-A, Long Beach Naval Shipyard,
A/O Code 842**

**COM, Norfolk Naval Shipyard, Portsmouth,
Va., ATTN: UNKD for Code 870**

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RN 197538
903
8-3

**HEADQUARTERS FIELD COMMAND
ARMED FORCES SPECIAL WEAPONS PROJECT
SANDIA BASE, ALBUQUERQUE, NEW MEXICO**

FORM 960.h AG

11 FEB 1958

**SUBJECT: Request of HARDTACK Project 3.h for Change in Radiation
Dosage Limit (U)**

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

**TO: Commander
Joint Task Force SEVEN
Washington 25, D. C.**

1. Reference is made to Commander, Norfolk Naval Shipyard Confidential letter FC/8570 (272) (HARDTACK) dated 17 January 1958.

2. At the suggestion of the Bureau of Medicine and Surgery, reference (a), which requests that the radiation dosage limit for Project 3.h personnel be raised to 4 r, was forwarded direct to Commander, JTF 7 instead of through established channels via (1) Commander, Field Command, AFSWP and (2) Commander, Task Group 7.1.

3. As a result of subsequent action by Commander, FC, AFSWP, Project 3.h has initiated action to have CNO (Op 36) preliminarily approve the raising of the radiation dosage limit for Project 3.h personnel from 3.0 r to 5.0 r for any 13 week period during Operation HARDTACK. After that approval is obtained, it is anticipated that Commander, FC, AFSWP will subsequently forward an appropriate request, through established channels, pertinent to raising the radiation dosage limits for the specific personnel concerned of Project 3.h.

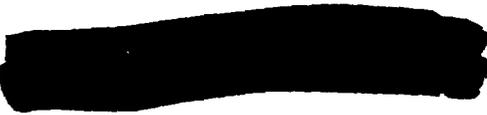
4. In view of the above, it is considered that no action on reference (a) is required.

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FOR THE COMMANDER:

**HARRY D. PICKETT
Captain, USN
Asst Deputy Chief of Staff
Weapons Effects Tests**

**Copies furnished:
COM JTF 7 (Advance cy)**



COPY

DEPARTMENT OF THE NAVY
BUREAU OF MEDICINE AND SURGERY
WASHINGTON 25, D. C.

BUMED-742:GCB:ces
Serial: 01116
13 DEC 1957

CONFIDENTIAL

From: Chief, Bureau of Medicine and Surgery
To: Commander, Norfolk Naval Shipyard
Portsmouth, Virginia

Subj: Operation HARDTACK - radiation dosage limits for personnel;
comment concerning

Ref: (a) Norfolk NavShipYd ltr FS/S11(274A)(HARDTACK) Ser 0635
of 5 Dec 1957

1. The Bureau of Medicine and Surgery has no objection to the increase in radiation dose for personnel in Project 3.4, Operation HARDTACK, from 3r/13-week period to 4r/13-week period. This proposed increase is in accordance with a revision of National Bureau of Standards Handbook 59, entitled "Permissible Dose for External Sources of Ionizing Radiation." However, it must be emphasized that the Bureau of Medicine and Surgery desires that personnel exposure be kept as low as possible, even at the expense of an early entry into the target area.

2. It is requested that the Commander, Norfolk Naval Shipyard, direct this request to the Commander, TF-7, as a policy matter coming under that Commander's cognizance.

/s/ P. F. Dickens, Jr.
By direction

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Enclosure (1)





NORFOLK NAVAL SHIPYARD
PORTSMOUTH, VA. *by*

R N 1922 6
90 3 8 - 3

In reply refer to
FS/8570(271)
(HARDTACK)

[REDACTED]

029

JAN 17 1958

From: Commander
To: Commander, Task Force 7

Subj: Operation HARDTACK; request for change in radiation dosage limit

Ref: (a) NavShipYdNorVa conf ltr FS/S11(274A) HARDTACK of 5 Dec 1957
to Chief, BuMed, info copy to Hdqtrs FC AFSWP
(b) BuMed conf ltr BUMED-742:CCB:ces Ser 01116 of 13 Dec 1957
to NavShipYdNorVa

Encl: (1) Copy of reference (b)

1. It is understood that the radiation dosage limit for personnel while stationed at EPG during Operation HARDTACK will be established as 3r.
2. Underwater Explosions Research Division Project 3.4 plans for personnel to go aboard the target ships as soon as possible after WAHOO in order to effect repairs, recalibrate equipment and make preparations for UMBRELLA.
3. In anticipation of the relatively early re-entry needed by Project 3.4 after WAHOO and the extended work required aboard the target ships between WAHOO and UMBRELLA, it is most desirable that the radiation dosage limit for Project 3.4 personnel be raised to 4r.
4. It should be noted that no personnel involved in Project 3.4 has ever participated in an atomic test before and that the earliest possible participation after WAHOO and UMBRELLA tests will be in 1960. It should further be noted that every effort will be made to keep personnel exposure as low as possible.
5. The Bureau of Medicine and Surgery was approached by reference (a) with respect to this change in the radiation dosage limit and has no objection to this increase (reference (b)).
6. It is therefore requested that the radiation dosage limit for Project 3.4 personnel be raised to 4r.

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Copies to:
HQ, FC, AFSWP (with copy of enclosure)
Dr. W. W. Murray, Project Officer, Project 3.4

T. J. Sullivan, Jr.
T. J. SULLIVAN, Jr.
By direction

[REDACTED]

RN75200 903
8.3

U. S. NAVAL RADIOLOGICAL DEFENSE LABORATORY
SAN FRANCISCO 24, CALIFORNIA

906B
CEM:mle

NOV 24 1958



From: Commanding Officer and Director
To: Distribution List contained in Report USNRDL-TR-260
Subj: U.S. Naval Radiological Defense Laboratory CONFIDENTIAL Report
USNRDL-TR-260; forwarding of
Ref: (a) CINCPACFLT OPNAV RPT 5600-3 (Conf) Ser 34/0906 of 22 May 58
to CNO
Encl: (1) Confidential Report USNRDL-TR-260 entitled "A Proposed
Doctrine for Fleet Radiological Defense" by S. Baum, W.E.
Strope and R.L. Harvey

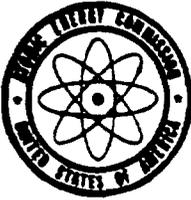
1. Enclosure (1) presents, as a proposed replacement for Chapter 11 of NWIP-50-1, a revised doctrine for fleet atomic warfare defense and provides a documented basis for its major elements. This doctrine reflects the results of technical and operational evaluations of nuclear weapons effects, hazards, and countermeasures with respect to their implications on fleet operations.
2. The present Chapter 11 of NWIP 50-1, entitled "ABC Defense and Damage Control," treats the defense against atomic, biological and chemical warfare as a single system. Enclosure (1) points out that the apparent similarities between atomic warfare defense, on the one hand, and biological and chemical warfare defense, on the other, are not nearly as significant as their fundamental differences.
3. This report was reviewed in draft form by the Commanders in Chief, U.S. Atlantic and Pacific Fleets and was jointly recommended to the Chief of Naval Operations by reference (a). It is currently under review by CNO and thus at present represents a Laboratory recommendation rather than an approved doctrine.

J. H. McQuilkin
J. H. McQUILKIN

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*Final in
Library
7-6-59*





UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON 25, D. C.

SUBJECT: MARSHALL ISLANDS
ADM BUCKLEY, RE: ASST. SEC.
USE IN PROGRAM...
CONDUCTING...
...
...
...

903
Comd

Admiral Arleigh A. Burke, USN
Chief of Naval Operations
Department of the Navy
Washington 25, D. C.

OCT 1958

Dear Admiral Burke:

You will recall that as a result of the March 1 detonation of the CASTLE test series conducted by JF-7 in the Pacific in 1954, the natives of Rongelap and Utrik Atolls in the Marshall Islands were exposed to radioactive fallout. The Atomic Energy Commission, on behalf of the U. S. Government, has accepted responsibility for periodic medical examinations of these Marshallese. Since that time there have been five follow-up medical examinations conducted by the AEC in collaboration with the Naval Medical Research Institute, the Naval Radiological Defense Laboratory and the Brookhaven National Laboratory. These examinations were greatly facilitated by the assistance afforded the medical teams by CINCRCMFLI and the Commanding Officer NAVSTA-5AJ.

The fifth follow-up examinations during February-April, 1958 for the first time employed the whole body counter, an electronic device for the measurement and identification of the total body burden of contaminating radionuclides. It proved an unqualified success in that it provided direct data on the type and degree of internal contamination of a number of the islanders. It was also useful in establishing that there was residual radioactivity present in certain foods and other materials. Since it is likely that the current series of tests has added to the contamination level of these islands, it is more than ever imperative to continue these medical follow-up studies and to extend the survey to a detailed examination of the ecological aspects of these islands; special attention must be given to the locally obtained items of diet.

In order to accomplish this mission it is proposed that a team of medical and ecological specialists be sent to these islands with their required equipment, supplies and technical assistance. The experience of last year's expedition, for which you graciously provided the LST "Flannery County", prompts us to request that an LST again be assigned for transportation and basing beginning some time between the middle of February and the first of March, 1959, and requiring about one month overall for completion of mission. An LST proved to have many advantages over other craft, not the least of which was its ability to accept and secure the 21-ton shielded steelroom of the whole body counter on its tank deck.

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OCT 31 1958

An LRT also has sufficient power supplies of the correct type to operate the shaft body counter and the B-ray equipment.

The detailed steelwork presently to cover at Balwood. It can be un-loaded and removed within three to four days. Thus present operational plans would require that an LRT be on station at Balwood about a week before the planned departure to Hongkong. It would return to Balwood approximately 21 days later and off-load the personnel.

If operational considerations warrant, the construction team could board the LRT on any other designated point in this Island system and similarly could disembark. At least two technicians; however, should assist in the un-loading of the steelwork and its associated delicate structures and accompany this equipment while it is on board.

Assistance from the U. S. Navy in the accomplishment of the above mission would be of immeasurable value. Accordingly, your approval of the use of an LRT together with the following technical team is respectfully requested.

1. Participation in the operation by certain naval personnel, both surface and avilian. Approximately five such naval personnel should accompany the team, but so far those men are undesignated. At least some of the five will come from those listed in Schedule A dependent on duties and circumstances as of that time. Your general approval of such detailed matter is respectfully requested.
2. Transportation via HMA for all other personnel (Schedule A) of the team and cargo from Hawaii to Hongkaiolo or other designated point of embarkation and return. In addition to the five members of the team listed in paragraph 1 above there are contemplated some five scientists and six technicians from the Breakdown National Laboratory, and one scientist each from the Hawaiian Institute of Health, the Walter Reed National Center, and the Armed Forces Special Weapons Project. Five to seven avilian biologists/scientists from the University of Washington complete the team. The total weight of all medical equipment and gear is estimated at four tons and ten volumes of life table book.
3. Transportation and handling of the above medical and scientific instruments on the trip to and from Hongkong and during the period of the construction and unloading.
4. Assignment of a class 2 priority for all HMA transportation required.

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Admiral Arleigh A. Burke

- 3 -

30 1958

5. Air transportation between Eniwetok or other designated embarkation point and Majuro, and return, to transfer three Marshallese (one medical practitioner and two interpreters) and to transfer several members of the medical team to Majuro for the purpose of examining children which serve as controls for the Rongelap children.
6. Authorization to all Naval Commands enroute to provide assistance and support to this team of scientists as needed.
7. Authorization of the Commander of the LST to on-load the steelwork and other stored material at Eniwetok and subsequently return them if that island is not designated as the principal station of the vessel.

Your cooperation in bringing about this biomedical mission will be deeply appreciated. Moreover, in addition to satisfying the Government's responsibility for the health of the Marshallese, you will be assisting in studies which have proven to be of value to the Department of the Navy and to the AEC in advancing our understanding of the nature of radiation injury and the delayed effects of irradiation.

Sincerely yours,

General Manger

Enclosure
Schedule A
Ltr to A.T. Luzzi

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PERSONNEL "A"

Restrictive listing of personnel. Additional personnel are being contacted. Those listed below have received informal approval of their respective Commanding Officers or Directors.

U. S. Navy

Naval Medical Research Institute, Bethesda, Maryland
Lt. Cdr. J. V. King (MRC) USN, Naval Liaison Officer (not to accompany team)
Lt. Earl J. Smith (MRC) USN, Surgeon
Mr. Raymond Kieber, Electrician Scientist

Naval Medical Research Unit, Cairo, Egypt
William G. Gutter, MD, USN. Serv. No. 653-39-71, Technicians

Naval Air Station, Jacksonville, Florida
W. Jefferson Hasky, MD, USN. Serv. No. 605-94-99, Technicians

Naval Radiological Defense Laboratory, San Francisco, California
Mr. Ryan Kechter, Statistician
Mr. William Murray, Photographer

14th Naval District, Preventive Medicine Unit, Pearl Harbor, T.H.
Lt. James P. Nolan (MC) USN, Liaison Officer for COMNAVSTA/1001
(not to accompany team)

U. S. Army

Walter Reed Medical Center
Colonel Austin Lowery, MC, USA, Ophthalmologist

Civilians

Brookhaven National Laboratory, Upton, L.I., New York
Dr. Robert A. Conrad, Medical Department, Team Leader and Internist
Dr. James S. Robertson, Medical Dept., Biophysicist
Dr. William Collins, Medical Department, Internist
Mr. James J. Greenough, Medical Department, Technicians

Others

Dr. Leo Meyer, South Houson Communities Hospital, Rockville Center,
L.I., New York, Entomologist
Dr. J. Edward Hall or Dr. Daruch B. Rumberg, National Institutes of
Health, Bethesda, Md., Internist
Undesignated Officer, Armed Forces Special Weapons Project
Mr. Clyde Blye, Oudenden, Missouri, Chief technician
Mr. Irving Jones, South Houson Communities Hospital, Rockville Center,
L.I., New York, Technician

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SCHEDULE "A" Contd.

Marshall Islands, Majuro
One medical practitioner
Two interpreters

University of Washington, Seattle, Washington
Dr. Edward E. Hald, Laboratory of Radiation Biology
Dr. Allyn H. Seymour, Laboratory of Radiation Biology
Approximately four to six additional scientists and/or technicians
from this laboratory

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4 FEB 1958

1-3/903

3rd Ind

SUBJECT: Decontamination of Army Sectionalized Burges (U)

Headquarters, Joint Task Force SEVEN, Arlington Hall Station, Arlington
12, Virginia

TO: Commander, Task Group 7.3, Washington 25, D. C.

The request in basic letter is considered appropriate and has been
submitted through proper channels with the request for its inclusion in
your operational planning. In event fulfilling this requirement is
beyond your capability, request this headquarters be advised.

FOR THE COMMANDER:

Copy furnished:
FG AFMFP
OTG 7.1
NCL

THOMAS B. CRIPPEN
Brigadier General, USAF
Chief of Staff

M/R: Self-explanatory.

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COL JEFFREY/tallmadge/3-3/2218/29 Jan 58

General Lueders
General Griffith <i>(initials)</i>
General Dick
Admiral <i>(initials)</i>
Doctor Oglo
DC/S
SJS <i>(initials)</i>
J-1
J-2
J-3 <i>(initials)</i>
J-4
J-5
Compt

3A



JTF-7 903
July 22 1958 JEF

HEADQUARTERS
TASK GROUP 7.1
Joint Task Force SEVEN
APO 437 Box #1
San Francisco, California

2937-JFE

15 July 1958

SUBJECT: Request for Support for Program 40 (Radiation Biology)

TO: Commander
Task Group 7.4
APO 187
San Francisco, California

1. Program 40 (Radiation Biology) has as its objective the radiological-ecological study of RONGELAP Atoll, to evaluate the extent of radiation contamination of an off site atoll from the present testing program and to further the available knowledge of the cycling of the "long lived" radioisotopes produced by the 1954 tests.

2. The support needed is transportation and living accommodations for twelve scientists from ENIWETOK to RONGELAP, movement about RONGELAP as requested by the party leader, Doctor Edward Held, and return to ENIWETOK, with the men and material at the end of the operation. Support is needed during the period 12 August to 24 August inclusive. The use of the MV ALOTO has been requested of CTG 7.5 for this purpose.

3. In addition, CTG 7.4 is requested to provide communication support by the Weather Station at RONGELAP, and normal SA-16 support for mail and supplies.

FOR THE COMMANDER:

J. H. Wendell
J. H. WENDELL
J-3
Plans & Operations

JHW/jfm

DISTRIBUTION:

- 2 - CTG 7.4
- 1 - CTG 7.1
- 1 - D/A
- 1 - J-3
- 1 - J-6
- 1 - Program 40 (Donaldson)
- 1 - CJTF 7 (Info)
- 2 - TG 7.5 (Info)
- 2 - I&R



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DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
WASHINGTON 25, D. C.

R/N 398804

9-3
903

NO DELIVERY TO
OFFICERS
BY AIRMAIL

MAY 24 1956

[REDACTED]
AIR MAIL [REDACTED]

From: Chief of Naval Operations
To: Commander in Chief, U.S. Pacific Fleet
Subj: Japanese Foreign Office request for survey vessel SHIKIDU MARU to receive certain assistance in Central Pacific; forwarding of information concerning
Ref: (a) CNO Comf msg Z32247Z May 1956
Encl: (1) Copy of American Embassy Tokyo msg No. 2732 of 22 May 1956
(2) Copy of American Embassy Tokyo msg No. 2740 of 23 May 1956
(3) Copy of CNO ltr ser 0247721 of 23 May 1956 to ASISICDEF (MA)

1. Enclosures (1), (2) and (3) are forwarded as amplifying information to reference (a).

J.N. McDonald
By direction

Copy to:
COMNAVSTAASAS (with encl (1), (2) and (3))
COMNAVSTA (with encl (1), (2) and (3))
COMNAVSTA/OP (with encl (1), (2) and (3))
CJTF 7 (with encl (1), (2) and (3))

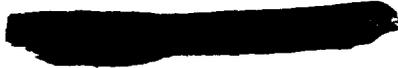
AIRMAIL

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[REDACTED]

URGENT TELEGRAM

DEPARTMENT OF STATE



FROM: TOKYO

TO: Secretary of State

NO: 272, May 22, 5 P.M.

PRIORITY

FOURTY HAS DELIVERED NOTE VERBALE OFFICIALLY INFORMING US RE DISPATCH SHINKOBU MARI TO SURVEY EFFECTS NUCLEAR TESTS. SHIP TO INVESTIGATE FISH, BIOLOGICAL, ATMOSPHERIC, METEOROLOGICAL AND OCEANOGRAPHIC CONDITIONS IN VICINITY TESTING GROUNDS. SHIP DEPARTING TOKYO MAY 26 AND RETURNING JUNE 30; NOTE INCLUDES FULL ITINERARY, DETAILS CREW AND OTHER PERTINENT DATA (TEXT BEING POUNDED).

NOTE REQUESTS FOLLOWING ASSISTANCE TO SURVEY SHIP: 1) NAME APPROPRIATE US SIGNAL STATION, CALL SIGN, FREQUENCY OF CALL AND REPLY SIGNAL AND TIME EXCHANGE SIGNALS IN ORDER SURVEY SHIP COMMUNICATE DAILY WITH POSITION TO US AUTHORITIES AT NUCLEAR TEST AREA; 2) INFORMATION ON PRECAUTIONARY MEASURE I.E. COORDINATION OF TIME AND DATE NOTIFICATION AND POSITION FOR SURVEY SHIP TAKE REFUEL; 3) PERMISSION STOP AT PONAPE AND SAIPAN ONCE EACH FOR SUPPLY 100 TONS FRESH WATER AND PERISHABLE FOOD AT COST NOT MORE (150 AT BOTH PLACES); 4) INFORMATION ON PORTS OF CALL—A. METHODS OF WIRELESS COMMUNICATION; B. AVAILABILITY OF PILOTAGE AND PORT CHARGES; C. AVAILABILITY OF SUPPLIES; AND D. AVAILABILITY OF PIERAGE; 5) SERVICES US MILITARY AIRCRAFT FOR TRANSPORTATION OF INVESTIGATION DATA, INSTRUMENTS ETC. BETWEEN PORTS OF CALL AND TOKYO.

IN VIEW EARLIEST DEPARTURE SHINKOBU MARI REQUEST EARLY REPLY EMBASSY REQUESTING FULLEST COOPERATION POSSIBLE WITH SURVEY SHIP. AT REQUEST WASH FOR INFO ON SHINKOBU MARI, THIS MESSAGE AND COPY DISPATCH BEING SENT HIM DIRECTLY.

ALLEN

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COPY

Enclosure (1)

DEPARTMENT OF STATE

URGENT TELEGRAM



FROM: TOKYO

TO: Secretary of State

NO: 2718, May 23, 1945

PRIORITY

REFERENCE DEPTEL 2963.

1. ITINERARY SHINKOBU MAINLY WEST BANGOR AREA: FROM TOKYO SOUTHWEST TO POINT 20 DEGREES NORTH LONGITUDE, 157 DEGREES EAST LATITUDE; ONE SOUTH TO POINT 9 DEGREES LONGITUDE; ONE EAST TO POINT 161 DEGREES LONGITUDE; TO PONAPE ARRIVING JUNE 19; NORTHWEST TO SAIPAN ARRIVING JUNE 22; AND SOUTH TO TOKYO ARRIVING JUNE 30. OBSERVATIONS TO BE CONDUCTED AT 37 POINTS ON ITINERARY.
2. RE PERISHABLE FOODS, JAPANESE DESIRE PURCHASE MAINLY VEGETABLES AND OTHER FRESH FOODS IN RELATIVELY LIMITED QUANTITIES AT COST ESTIMATED AT NO MORE THAN \$150 AT BOTH SAIPAN AND PONAPE. JAPANESE UNCERTAIN EXACT QUANTITIES DESIRED.
3. RE SERVICES OF MILITARY AIRCRAFT, JAPANESE DESIRE TRANSPORT FROM TOKYO TO SAIPAN AND PONAPE INVESTIGATION INSTRUMENTS, BRIDGE AND OTHER INCIDENTALS FOUND NECESSARY AFTER SHINKOBU MAIN DEPARTS TOKYO IN ADDITION, DESIRE SEND BACK FROM BOTH PLACES TO TOKYO UNDEVELOPED FILMS FOR INVESTIGATION AND RESEARCH, TAPE RECORDINGS, INVESTIGATION REPORTS AND LETTERS FROM RESEARCH STAFF AND CREW. POWOFF BELIEVES SHIPMENTS WILL BE SMALL AND HOPES THEY CAN BE CARRIED BY MILITARY AIRCRAFT MAKING REGULAR RUNS TO SAIPAN AND PONAPE ON NON-SCHEDULED BASIS.

ALLENBY

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Enclosure (2)



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
WASHINGTON 25, D. C.

IN REPLY REFER TO
OPNAVINST
SEC 516/111

23 MAY 1956

[REDACTED]

From: Chief of Naval Operations
To: Assistant Secretary of Defense (International Security Affairs)
Subj: Japanese Foreign Office request for survey vessel SHINKOITSU MARU to receive certain assistance in Central Pacific
Ref: (a) American Embassy Tokyo msg No. 2732 of 22 May 1956

1. Reference (a), which outlines the desire of the Japanese Foreign Office to have the survey ship, SHINKOITSU MARU, depart Tokyo 26 May to investigate fish and oceanographic conditions in the vicinity of the nuclear test area, has been referred to the Chief of Naval Operations for reply.

2. In answer to the specific requests contained in reference (a), the Chief of Naval Operations recommends the following action be taken:

a. Have appropriate U.S. signal station, call sign, frequency of call and reply signal and time exchange signals in order survey ship communicate daily noon position to U.S. authorities at nuclear test area.

Daily position reports may be addressed to Commander, Joint Task Force 7. The call sign for this command, at the proving grounds, is JFH. The message may be transmitted to the Naval Communications Station, Guam, M.I., for relay to CJTF 7. The call sign for Naval Communications Station, Guam, is NH. The frequency to use in the initial call up to Naval Communications Station, Guam, is 900 MC. The frequencies to be employed for exchange of traffic after initial contact are:

SHINKOITSU MARU transmits on 468 MC

SHINKOITSU MARU receives on 470 MC

Daily noon position should be transmitted about one-half hour after local apparent noon.

b. Information on precautionary measures, i.e., communication of time and date of detonation and position for survey ship take refuge.

A danger area has been described in accordance with the recommendations of both Commander Joint Task Force 7 and the Atomic Energy Commission.

[REDACTED]

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Should be relayed to
CJTF 7 & 7.3 REP.

OP-214/mt
Per 024/1021

23 MAY 1956

This area warning has been disseminated through diplomatic channels as well as by Notices to Mariners, Notices to Airmen, and International Notices to Airmen. Grave hazards will at times exist in this area and all mariners and airmen are warned to remain clear. It is not anticipated that there will be any such hazards outside the danger area. In the unlikely event that test activities create a hazard, appropriate warnings will be given via existing systems. The Commander in Chief, U.S. Pacific Fleet, has established with Commander Naval Forces Far East and United States Naval Attache Tokyo additional precautions relative to the positioning of any Japanese vessel. Communication of times and dates of detentions to Japan is not considered to be necessary. The ship should not be authorized to enter the prescribed danger area.

c. Permission to stop at Funape and Saipan once each for supply 100 tons fresh water and perishable foods at cost of not more than \$150.00 at both places.

If the Japanese Government is determined to send a ship on such an expedition it does not appear unreasonable to point out to the Japanese that with the resources available to that government it should be possible to select one with sufficient sea-keeping characteristics to permit a thirty day cruise without logistic support in this area. The Chief of Naval Operations recommends that this be done. If no such ship is available the Chief of Naval Operations will grant entry clearance for the SHINKOJUSU MARU to enter the Naval Defensive Sea Area of Guam for a period of one day, en route to and from the vicinity of the testing area. One hundred fifty dollars worth of perishable foods and 100 tons of fresh water can be furnished the ship during both visits on a reimbursable basis. Necessary arrangements for this support can be made by the ship's master with Commander Naval Forces Marianas. The reason Guam has been selected in lieu of Funape and Saipan is because it is the only port in the area where required logistic support can be made available to the ship and for other reasons outlined below. No authority should be given to enter any port other than Guam.

d. Information on ports of call. (1) Methods of wireless communication. Guam has adequate communication facilities. (2) Availability of pilotage and port charts. Commander Naval Forces Marianas will arrange to pilot the SHINKOJUSU MARU in and out of Apra Harbor. (3) Availability of bunks. Bunks available at Guam. If required, the bunks should be brought from Japan. (4) Availability of pierage. Adequate in Apra Harbor.

e. Services U.S. military aircraft for transportation of investigation data, instruments, etc., between ports of call and Tokyo.

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Op-215/wh
Ser 04901

23 MAY 1956

Scheduled military flights from Guam to Japan. Necessary arrangements for the handling of investigation data and a limited amount of air freight can be made at Guam with Commander Naval Forces Marianas. No other services of this type can be made available.

/s/ G. L. NESELL
Deputy Chief of Naval Operations
(Administration)



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UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU

Pacific Supervisory Office
P. O. Box 3650
Honolulu 11, Hawaii

April 21, 1958

Commander
Joint Task Force SEVEN
APO 437
San Francisco, Calif.
(Attn: Major Frank Ritchie, RADSAFE)

Dear Sir:

In response to a telephone request from a Captain Matt of your organization, may we inform you that the Weather Bureau has no monitoring capabilities for radioactive fallout in the Hawaiian Islands.

We have at three stations in Hawaii; namely, Honolulu, Hilo and Lihue, the "fly paper" type of collection which the Weather Bureau performs for the AEC. The Weather Bureau, in this instance, merely exposes the paper. All analyses and measurements are made by AEC and, therefore, any data which you require from these "fly paper" exposures would have to be obtained from the AEC, not the Weather Bureau.

Very truly yours,



H. Dean Parry
Meteorologist Acting in Charge

HDP:smc

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Keith Beyer, F-15 Group Leader

March 13, 1958

Mr. Ogle, Deputy Commander for Scientific Matters-J77 7

YOUR PROPOSED VISIT TO HPG

J-80

During the forthcoming Hardtack Operation at the Eglin Proving Ground, I would appreciate discussion with a few informed and dependable people in deciding whether the conditions with respect to radioactive fallout are such as to allow the safe firing of nuclear devices.

Therefore, I would like to invite you to assist me in the above considerations preferably during the period April 21 to May 15. If you find it possible to stay slightly longer this would be most satisfactory. If the suggested period is not satisfactory to you, I would appreciate further advice from you on this subject.

Original Signed by
W.M. OGLE

Mr. Ogle

W01el

CC: Gen. A. R. Luedcke ←
J. N. S. Kellogg

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UNIVERSITY OF CALIFORNIA

LOS ALAMOS SCIENTIFIC LABORATORY
(CONTRACT W-7405-ENG-36)
P. O. Box 1663
LOS ALAMOS, NEW MEXICO

IN REPLY
REFER TO **J-20**

March 13, 1958

Dr. Roger Etsel
University of California Radiation Laboratory
P. O. Box 808
Livermore, California

Dear Roger:

During the forthcoming Hardtack Operation at the Bikini Atoll Proving Ground, I would appreciate discussion with a few informed and dependable people in deciding whether the conditions with respect to radioactive fallout are such as to allow the safe firing of nuclear devices.

I would therefore like to invite you and Ken Street to assist me during Hardtack on the above considerations. It would be most helpful to me if between you you could cover the period of June 7 to July 15 assuming the operation extends that late. I am sending a similar letter to Ken and would like to request that you discuss this with him and let me know what period of time you could come out if you find it possible at all.

I would greatly appreciate any assistance you can give me on this subject.

Sincerely,

Original Signed by
W.M. OGLE

Wm. Ogle
DEPUTY COMMANDER FOR
SCIENTIFIC MATTERS-JTF 7

WDO:al

CC: R. F. York
B. Sewall
A. R. Knudsen ←
H + R (2)
File

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UNIVERSITY OF CALIFORNIA

LOS ALAMOS SCIENTIFIC LABORATORY
(CONTRACT W-7403-ENG-36)
P. O. Box 1663
LOS ALAMOS, NEW MEXICO

IN REPLY
REFER TO **3-50**

March 19, 1958

Dr. E. I. Street
University of California Radiation Laboratory
P. O. Box 808
Livermore, California

Dear Ken:

During the forthcoming Hardtack Operation at the Bikini Proving Ground, I would appreciate discussion with a few informed and dependable people in deciding whether the conditions with respect to radioactive fallout are such as to allow the safe firing of nuclear devices.

I would therefore like to invite you and Roger Heston to assist me during Hardtack on the above considerations. It would be most helpful to me if between you you could cover the period of June 7 to July 15 assuming the operation extends that late. I am sending a similar letter to Roger and would like to request that you discuss this with him and let me know what period of time you could come out if you find it possible at all.

I would greatly appreciate any assistance you can give me on this subject.

Sincerely,

Original Signed by
W.M. OGLE
Wm. Ogle
DEPUTY COMMANDER FOR
SCIENTIFIC MATTERS-JTF 7

W0:al

CC: E. F. York
B. Swell
A. R. Lindbeck ←
H + R (2)
File

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UNIVERSITY OF CALIFORNIA

LOS ALAMOS SCIENTIFIC LABORATORY
(CONTRACT W-7405-ENG-36)
P. O. Box 1663
LOS ALAMOS, NEW MEXICO

IN REPLY
REFER TO: **J-30**

March 13, 1958

Dr. Lester Machta
U. S. Weather Bureau
Department of Commerce
Washington 25, D. C.

Dear Les:

During the forthcoming Hardtack Operation at the Bikini Proving Ground, I would appreciate discussion with a few informed and dependable people in deciding whether the conditions with respect to radioactive fallout are such as to allow the safe firing of nuclear devices.

During our phone conversation the other day you stated you would be interested in assisting in the above considerations but were not sure what period of time would be most convenient. I have arranged a possible schedule for the people I am asking out and would like to ask you to consider the period of May 21 to June 15. If this does not meet your convenience please let me know.

I would greatly appreciate your assistance during Hardtack if you find you can accept this invitation.

Sincerely,

Original Signed by
WM. OGLE

Wm. Ogle
DEPUTY COMMANDER FOR
SCIENTIFIC MATTERS-JT7 7

WOr:l

CC: Gen. A. R. Luadocke ~~OK~~
H + R (2)
File

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UNIVERSITY OF CALIFORNIA

LOS ALAMOS SCIENTIFIC LABORATORY
(CONTRACT W-7405-ENG-36)
P. O. Box 1663
LOS ALAMOS, NEW MEXICO

IN REPLY
REFER TO **S-30**

March 13, 1958

Dr. Gordon Dunning
Division of Biology and Medicine
U. S. Atomic Energy Commission
Washington 25, D. C.

Dear Gordon:

During the forthcoming Hardtack Operation at the Eniwetok Proving Ground, I would appreciate discussion with a few informed and dependable people in deciding whether the conditions with respect to radioactive fallout are such as to allow the safe firing of nuclear devices.

Therefore, I would greatly appreciate your coming to the Eniwetok Proving Ground to assist in the above considerations if you can find it possible. Since I do not want to ask anyone to stay very long, I have arranged a tentative schedule which involves your being overseas from April 15 to May 7. If this time is not convenient for you please advise me of any preferable period of time. If you would care to stay longer than the above mentioned period of time that would be quite satisfactory.

Sincerely,

Original Signed by
JWM. OGLE

Wm. Ogle
DEPUTY COMMANDER FOR
SCIENTIFIC MATTERS-JTF 7

WJal

CC: Dr. G. Dunning
Gen. A. E. Inecheke ←—CK
H + R (2)
File

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G. A. Cowan, Associate J Division Leader

March 13, 1958

Mr. Ogle, Deputy Commander for Scientific Matters - JTF 7

YOUR PROPOSED VISIT TO EPG

J-80

During the forthcoming Hardtack Operation at the Bikini Proving Ground, I would appreciate discussion with a few informed and dependable people in deciding whether the conditions with respect to radioactive fallout are such as to allow the safe firing of nuclear devices.

I would therefore like to invite you to assist in the above considerations preferably during the period May 7 to June 1. If you find this period inconvenient with your own schedule, I would appreciate an alternate suggestion.

Original signed by
WM. OGLE

Mr. Ogle

WO: Gen. A. R. Ludwicks ←
Mr. A. G. Graves
File

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UNITED STATES PACIFIC FLEET
HEADQUARTERS OF THE COMMANDER IN CHIEF

903
2-3 2-3
77-1

21

Sup: W/ 913

4 MAR 1958

From: Commander in Chief U. S. Pacific Fleet
To: Commander Hawaiian Sea Frontier

Subj: Radiation Monitoring Program

Encl: (1) Copy of Hdqtrs JTF 7 ltr J-3/903 of 24 Feb 1958

1. Enclosure (1) is forwarded herewith for your compliance. The subject program is placed under the cognizance of your command.
2. You are authorized to deal directly with Headquarters Joint Task Force SEVEN in connection with this monitoring program. Send information copies of your communications to CINCPACFLT.

GEORGE F. ROSCO,
Fleet Aerologist

Copy to:

→ Hdqtrs JTF 7 (Arlington Hall Station, Arlington 12, Va.)

CO NAS KWAJALEIN (with encl (1))

CO NAS MIDWAY (with encl (1))

CO FLEWACKEN PEARL (with encl (1))

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2. Joint Task Force JMWTF is planning to operate a pollution monitoring program in the Central Pacific during Operation RAINFALL. In connection with this program the JMWTF will continue to place pollution monitoring equipment in the area of the Central Pacific.

3. The JMWTF will continue to place pollution monitoring equipment in the area of the Central Pacific during Operation RAINFALL. In connection with this program the JMWTF will continue to place pollution monitoring equipment in the area of the Central Pacific.

28
28
Chief,
U. S. Weather Bureau
Washington 25, D. C.

Dear Sir:

Joint Task Force SEVEN is planning to operate a radiation monitoring program in the Central Pacific during Operation HARBINGER. In connection with this program, the Task Force desires to place radiation monitoring equipment at the U. S. Weather Bureau operated stations at TIKI, FOMARE, FOMARE and HAWAII.

Assistance from the weather station personnel, as well as to install equipment described below is requested.

The equipment for each station consists of a Radiation Surveyor, a 12-inch automatic recorder, which requires 115-volts, 60 cycle power supply; and a station log book. Should this request be approved, this equipment will be transported from Hawaii directly to the stations about 1 April 1954.

The assistance requested of the station personnel, consisting mainly of recording instrument readings twice daily, will be supplied by personnel who will accompany the equipment. No equipment will be required at the stations. Replacement units will be furnished to the stations immediately, at which time the previously used units will be returned to Hawaii.

Sincerely yours,

Very faithfully,
Perry H. Griffith
Brigadier General, USAF
Chief of Staff, JTF-7
P.O. Box 28
Honolulu, T.H.

PERRY H. GRIFFITH
Brigadier General, USAF
Chief of Staff, JTF-7
P.O. Box 28
Honolulu, T.H.

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141903
14 APR 1954
Weather Monitoring Installations

Commander
Air Weather Service
Andrew Air Force Base
Washington 25, D. C.

1. Joint Task Force SEVEN is planning to operate a radiation monitoring program in the Central Pacific during Operation HARTAK. In connection with this program the task force desires to place radiation monitoring equipment at the Air Weather Service Station on Guam.

2. Assistance from the weather detachment personnel as well as permission to install equipment consisting of a radiation survey meter, an automatic monitor and a station log book is requested.

3. Should this request be approved, this equipment will be transported from Eniwetok direct to the detachment about 1 April 1954. The requested assistance, consisting primarily of recording instructions reading twice daily, will be spelled out in instructions which will accompany the equipment. No maintenance support will be required by detachment personnel. Replacement units will be delivered to the station periodically at which time the previously used instruments will be returned to Eniwetok.

FOR THE COMMANDER:

MAJOR FRANK G. RICHIE/Rev/3-3/19
2011
PERRY B. GRIFFITH
Brigadier General, USAF
Chief of Staff

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SEARCHED	INDEXED
SERIALIZED	FILED
APR 1954	
ANDREW AIR FORCE BASE	
WASHINGTON 25, D. C.	
E OF	
10/10	



3-3/903

21 FEB 1958

SUBJECT: Radiation Doseage Limit

**TO: Commander
Field Command
Armed Forces Special Weapons Project
Sandia Base
Albuquerque, New Mexico**

1. Reference is made to:

a. Letter from Commander, Norfolk Naval Ship Yard, ~~NA/010000~~
HARDTACK, 17 January 1958.

b. Letter from CJTF SEVEN to Commander, Norfolk Naval Shipyard,
3-3/903, subject: Radiation Doseage Limit, 24 January 1958.

c. Letter from COMFLECOM AFMSP, FORM 1 960.A AG, subject:
**of HARDTACK Project 3.A for Change in Radiation Doseage Limit (U), 12
February 1958.**

2. Reference 1b is attached for your information, which is a
to reference 1a.

FOR THE COMMANDER:

JOHN M. LEONARD
Captain AGO
Asst Adj Gen ✓

1 Encl
CJTF-7 ltr dated 24 Jan 58

General Ludwick
General Griffith
General Dick
Asst Asst
Doctor Ogle
SWSA
J-1
J-2
J-3
J-4
J-5
Compt

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COL LEONARD/tallmadge/3-3/2218/28Feb58



Department of Justice

Washington, D.C.

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N/A Since Arvine Gas is CAF 20 00-85-13
authorizing airlift is being requested
to provide such auth