

12

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TO : C. L. Dunham, M. D., Director
 Division of Biology and Medicine

DATE: October 29, 1958

FROM : Gordon M. Dunning, Chief, Radiation Effects of Weapons Branch
 Division of Biology and Medicine

SUBJECT: RADIATION EXPOSURES - OPERATION HARDTACK

SYMBOL: BMREW:AWK

The film badge records of individual radiation exposures during the Pacific phase of Operation HARDTACK have been received by the Division. The staff of the Radiation Effects of Weapons Branch has compiled the attached list of exposures. A recapitulation of these exposures is as follows:

320 U.S. ATOMIC ENERGY COMMISSION
 RG DOE HISTORIAN
 Collection 1132
 Box 3369
 Folder HARDTACK 1958
 MILITARY RESEARCH + APPLICATION

Dose Range	Number
0 - 12.413r (highest recorded) (about)	19669
3r and over	403
4r and over	126
5r and over	88
6r and over	54
7r and over	39
8r and over	26
9r and over	15
10r and over	7
11r and over	2
12r and over	1

Doses over 5r are those authorized because of the urgent necessity to collect timely data. Doses were authorized up to 20r for some individuals involved in cloud sampling operations.

Enclosure:

Operation HARDTACK Personnel Dosage Report of Personnel who participated in Operation HARDTACK and the Dosage of Whole Body Ionizing Gamma Radiation Received by Individuals (Over 03000).

cc: Dr. Shilling
 Dr. Western

Handwritten notes:
 had been Jordan we should carry on this to
 D M A a report being + 3 RS
 down C-15 30/10/58

PRIVACY ACT MATERIAL REMOVED

OPERATION HARDTACK

PERSONNEL DOSAGE REPORT OF PERSONNEL WHO PARTICIPATED
IN OPERATION HARDTACK AND THE DOSAGE OF WHOLE BODY
IONIZING GAMMA RADIATION RECEIVED BY INDIVIDUALS
(OVER 03000)

<u>TG7.1 TU-1 ORG-01</u>	<u>ID NUMBER</u>	<u>NAME</u>	<u>TOTAL DOSE</u>
			03894
			04570
			03885
			05267
			03243
			03836
			03303
<u>TG7.1 TU-2 ORG-01</u>			03768
<u>TG7.1 TU-3 ORG-05</u>			03433
<u>TG7.1 TU-3 ORG-10</u>			05958
			03556
<u>TG7.1 TU-3 ORG-11</u>			04041
			06631
			03215
			04350
			03013
			03213
			03707
<u>TG7.1 TU-3 ORG-18</u>			03328
	0337		
<u>TG7.1 TU-3 ORG-19</u>			05336
			03332
			03086
			03703
			03669
			04321
<u>TG7.1 TU-3 ORG-20</u>			03072
			03755

PRIVACY ACT MATERIAL REMOVED

DOE ARCHIVES

PRIVACY ACT MATERIAL REMOVED

- 2 -

<u>TG7.1 TU-3 ORG-29</u> <u>ID NUMBER</u>	<u>NAME</u>	<u>TOTAL DOSE</u>
		03509
<u>TG7.1 TU-3 ORG-33</u>		03589
		03101
<u>TG7.1 TU-3 ORG-37</u>		03325
		03480
		03755
		04130
		03103
		03748
		03519
		03666
		04554
<u>TG7.1 TU-3 ORG-42</u>		04051
<u>TG7.1 TU-4 ORG-01</u>		03486
<u>TG7.1 TU-5 ORG-02</u>		05133
		03241
		03460
		03566
<u>TG7.1 TU-6 ORG-01</u>		03662
		03463
		03355
		03633
		03345
<u>TG7.1 TU-6 ORG-02</u>		04347
		03389
		03461
		04270
		03766
		04123
		04110
		03038
		03148
		03726
		04137
		04560

PRIVACY ACT MATERIAL REMOVED

DOE ARCHIVES

PRIVACY ACT MATERIAL REMOVED

- 3 -

TG7.1 TU-6 ORG-02 (Cont.)
ID NUMBER NAME

TOTAL DOSE

03988
03283
05338
03720
03759
03124
03482
03813
04033
03545
03094
03286

TG7.2 TU-0 ORG-01

03445
03578
03520

TG7.2 TU-0 ORG-02

03030
03157
03572
03076
03540
03162
03032
03185
03706
03807

TG7.3 TU-0 ORG-03

03792

TG7.3 TU-0 ORG-05

03249
04366
03072

TG7.3 TU-0 ORG-13

03517
03788

TG7.3 TU-3 ORG-61

03231

PRIVACY ACT MATERIAL REMOVED

DOE ARCHIVES

PRIVACY ACT MATERIAL REMOVED

- 4 -

TG714 TU-1 ORG-01
ID NUMBER

NAME

TOTAL DOSE

03422
04153
03122
03172
03963
05897 ✓
07584 ✓
04488
06021 ✓
06989 ✓
04581
05281 ✓

TG7.4 TU-1 ORG-02

09781 ✓

TG7.4 TU-2 ORG-02

05653 ✓
05476 ✓
06576 ✓
08293 ✓
04529
03776
06431 ✓
05001 ✓
05039 ✓
05410 ✓
05233 ✓
05329 ✓
03734
03500
03449
06983 ✓
06810 ✓
04038
05529 ✓
03030
03598
06355 ✓
03398
06696 ✓
08471 ✓
03493
03946
03906
05004 ✓
07310 ✓
05098 ✓
04649

PRIVACY ACT MATERIAL REMOVED

DOE ARCHIVES

PRIVACY ACT MATERIAL REMOVED

- 5 -

TG7.4 TU-2 ORG-02 (Cont.)

ID NUMBER NAME

TOTAL DOSE

03374
04291
03948
05232 -
03260
06917 -
03972
06763 -
05611 -
06420 -
07565 -
03013
03229
07737 -
03304
04498
06582 -
05491 -
07225 -
07132 -
05887 -
03588
03906
03078
03206
04177
05371 -
07313 -
03718
03994
03947
03599
03678
05259 -
03888
04959
05458 -

TG7.4 TU-2 ORG-08

03523
03066
03455

TG7.4 TU-2 ORG-28

PRIVACY ACT MATERIAL REMOVED

03990
03460
05390 -

DOE ARCHIVES

PRIVACY ACT MATERIAL REMOVED

- 6 -

TG7.4 TU-2 ORG-28 (Cont.)

ID NUMBER NAME

TOTAL DOSE

03920
04321
04000
04773
05289 ✓
04000
03640
05004 ✓
03280
06060 ✓
03732
03335
03190
03260
03390
03498
03149
03292

TG714 TU-3 ORG-03

03640
03118
03242
03039

TG7.4 TU-3 ORG-04

03479
03031
03730
03007
03684
04291
03315
03159
03595
04090
10188 ✓
05617 ✓

TG7.4 TU-3 ORG-26

03169
03164
04296
03219
03447
03339
03076
03551

PRIVACY ACT MATERIAL REMOVED

DOE ARCHIVES

PRIVACY ACT MATERIAL REMOVED

- 7 -

<u>TG7.4</u>	<u>TU-3</u>	<u>ORG-26</u>	(Cont.)	<u>TOTAL DOSE</u>
<u>ID NUMBER</u>	<u>NAME</u>			
				03217
				03204
				04047
				03841
				03028
<u>TG7.4</u>	<u>TU-4</u>	<u>ORG-13</u>		05405, ✓
<u>TG7.4</u>	<u>TU-4</u>	<u>ORG-18</u>		03222
				03238
				03164
				03130
				03748
				03021
<u>TG7.4</u>	<u>TU-4</u>	<u>ORG-20</u>		03063
				03466
<u>TG7.4</u>	<u>TU-4</u>	<u>ORG-21</u>		03077
<u>TG7.4</u>	<u>TU-4</u>	<u>ORG-22</u>		03538
<u>TG7.4</u>	<u>TU-4</u>	<u>ORG-23</u>		03400
				03405
<u>TG7.4</u>	<u>TU-4</u>	<u>ORG-26</u>		03069
<u>TG7.4</u>	<u>TU-5</u>	<u>ORG-02</u>		08932 ✓
				10671 ✓
				05160 ✓
				09845 ✓
				10365 ✓
				11230 -
				04130 -
				08524 ✓
				07241 ✓
				06640 ✓
				07769 ✓
				09354 ✓
				10713 -

PRIVACY ACT MATERIAL REMOVED

DOE ARCHIVES

PRIVACY ACT MATERIAL REMOVED

- 8 -

TG7.4 TU-5 ORG-02 (Cont.)
ID NUMBER NAME

TOTAL DOSE

08440 -
09223 -
09652 -
07323 -
08718 -
07412 -
05525 -
08311 -
09216 -
03265 -
08617 -
10004 -
06375 -
09852 -

TG7.4 TU-5 ORG-28

08236 -
08964 -
03863 -
09912 -
07280 -
08062 -
07796 -
06348 -
12413 -

TG7.5 TU-1 ORG-10

03848
03376
04268

TG7.5 TU-1 ORG-11

03664
03105
03477
03126
03237
03028
03035
03767

TG7.5 TU-1 ORG-12

03074
03149
03581
03914
03203

PRIVACY ACT MATERIAL REMOVED

DOE ARCHIVES

PRIVACY ACT MATERIAL REMOVED

- 9 -

TG7.5 TU-1 ORG-12 (Cont.)
ID NUMBER NAME

TOTAL DOSE

03043
03007
03316
03525
03629
03566

TG7.5 TU-1 ORG-13

04367
03780
03859
03579
03018
03218
03884
03758
03413
03541
03748
04229
03441
03327
03676

TG7.5 TU-1 ORG-16

03000
03366
03500
03743
03529
04490
03350
04133
03628
03043
03203
03316
03194

TG7.5 TU-1 ORG-17

04332

TG7.5 TU-1 ORG-18

03437
03153
03342

PRIVACY ACT MATERIAL REMOVED

DOE ARCHIVES

PRIVACY ACT MATERIAL REMOVED

- 10 -

TG7.5 TU-1 ORG-27

ID NUMBER

NAME

TOTAL DOSE

03562

03291

TG7.5 TU-1 ORG-28

03504

03114

03704

03963

04475

03291

03084

03267

03036

03809

03027

04048

04309

03194

03477

04492

03432

03173

03581

03467

04720

03643

03782

03239

04170

03791

03470

04150

03655

03217

TG7.5 TU-1 ORG-54

03632

03872

03057

04183

03035

04167

03574

04498

PRIVACY ACT MATERIAL REMOVED

TG7.5 TU-1 ORG-55

03494

DOE ARCHIVES

PRIVACY ACT MATERIAL REMOVED

- 11 -

TG7.5 TU-1 ORG-56
ID NUMBER

NAME

TOTAL DOSE
03960

TG7.5 TU-1 ORG-73

03046
03162
03691
03497
03859
03216
04291
03395
03072
04274
03947
03516
03929
04480

PRIVACY ACT MATERIAL REMOVED

DOE ARCHIVES