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

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

SUBJECT: RADIATION EXPOSURES - OPERATION HARDTACK

SYMBOL: BMREW:AWK

TO: Hardtack file
EPC Exposure Records
DATE: October 29, 1958

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:

326 U.S. ATOMIC ENERGY COMMISSION

RG DOE HISTORIAN

Collection 1132

Box 3369

MILITARY RESEARCH + APPLICATION Folder HARDTACK 1958

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:
 Jordan we should
 cannot as this to
 a report being
 +3RS
 30/10/58
 down
 -7

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

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<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

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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

PRIVACY ACT MATERIAL REMOVED

03517
 03788

TG7.3 TU-3 ORG-61

03231

PRIVACY ACT MATERIAL REMOVED

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TG714 TU-1 ORG-01
ID NUMBER

NAME

TOTAL DOSE

TG7.4 TU-1 ORG-02

TG7.4 TU-2 ORG-02

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

09781 ✓

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

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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

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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

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<u>TG7.4</u> <u>TU-3</u> <u>ORG-26</u> (Cont.)	<u>ID NUMBER</u>	<u>NAME</u>	<u>TOTAL DOSE</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

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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

PRIVACY ACT MATERIAL REMOVED

03074
03149
03581
03914
03203

DOE ARCHIVES

PRIVACY ACT MATERIAL REMOVED

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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

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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

DOB ARCHIVES

PRIVACY ACT MATERIAL REMOVED

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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