## ANALYSIS OF RADIATION EXPOSURE FOR NAVAL UNITS OF OPERATION CROSSROADS Volume III-(Appendix B) Support Ships

Science Applications, Inc. P.O. Box 1303
McLean, VA 22101-1303

3 March 1982

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**Technical Report** 

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External radiation doses are reconstructed for crews of support and target ships of Joint Task Force One at Operation CROSSROADS, 1946. Volume I describes the reconstruction methodology, which consists of modeling the radiation environment, to include the radioactivity of lagoon water, target ships, and support ship contamination; retracing ship paths through this environment; and calculating the doses to shipboard personnel. The USS RECLAIMER, a support ship, is selected as a representative ship to demonstrate

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this methodology. Doses for all other ships are summarized. Volume II (Appendix A) details the results for target ship personnel. Volume III (Appendix B) details the results for support ship personnel. Calculated doses for more than 36,000 personnel aboard support ships while at Bikini rangemgeromomzezerotoo 11.77 reem. Of those, approximately 34,000 are less than 0.5 rem. From the models provided, doses due to target ship reboarding and doses accrued after departure from Bikini can be calculated, based on the individual circumstances of exposure.

### ANALYSISOF RADIATION EXPOSURES FOR NAVAL UNITS OF OPERATION CROSSROADS

#### VOLUMEIII

#### APPENDLXB: SUPPORTSHIPS

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#### A- 1 INTRODUCTION

This appendix contains the reconstructed doses of 121 non-target support ships attached to Commander, Joint Task Force One, Operation CROSSROADS. There were also 33 small naval units identified by hull number that participated but which were so small that either no permanent crew was assigned or the unit was not large enough to maintain an official deck log. Since no history was available for these units, no dose reconstruction was possible. The support ships analyzed in this report are presented alphabetically. For each ship an information summary, a history of the ship's movements and a radiation report containing the calculated film badge dose are provided.

#### B-1.1 RADIATION CONTOURS

The chart sections of Bikini lagoon (reproduced in Figures B-l, 2, 3, and 4) show representative radiation contours of the lagoon water. The "red" line, indicating an intensity level of 1 R/24 hours, and the "blue" line, 0.1 R/24 hours, are shown for various times for Shots ABLE and BAKER. The reconstruction of these contours for Shot ABLE is explained in Section 2-1 of VOLUME I. Reconstruction of Shot BAKER contours is contained in Section 2-3 of the same volume.

#### B-1.2 **INFORMATION** SUMMARY

For each support ship participating at Operation CROSSROADS, an Information Summary summarizes the ship's mission while at Bikini, the arrival and departure dates at Bikini and the total calculated film badge dose up to the date the ship departed the lagoon. In addition, a ship contamination factor when departing Bikini has been included in each ship's summary. This factor should be used in conjunction with the nomograph in Figure B-5 to calculate crew exposures subsequent to their departure from Bikini. (see Section B-1.5)

#### B-1.3 PATH REPORT

The path report follows each support ship information summary. The report is a listing of time and location within Rikini lagoon of the identified movements that may be of radiological significance for each non-target support ship. While the primary source of ship movement information is from the deck logs retained by the U.S. Navy, additional information from the official reports of Operation CROSSROADS is also available. The chronological operation summary and the salvage reports are especially useful. In some cases ship positions were reconstructed from photographs taken in the target array after the tests. The date time group, grid square location, and remarks explaining the maneuver are provided. The time is given in day-hour-minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, 1 September a 63, etc.) for ease of computer calculation. The place column contains the grid coordinates within Bikini lagoon as shown on Hydrographic Office Miscellaneous chart number 11854, portions of which are reproduced in Figures R-1, 2, 3 and 4. The path report tracks each support ship until its departure from Bikini Atoll. From the path report and chart number 11854, a graphical representation of each ship's movement history is possible.

The remarks column of the path report contains information describing the ships activities. Expressions that may need explanation are:

Alongside: the physical proximity of the two ships to one another. This phrase is used when a support ship was next to a radioactive target ship.

Passing: This device allows a hand calculated dose to be entered into the computer data files. It is used when a ship "passed" some radioactive target ship, or steamed through a radioactive oil slick.

Passing Summary: Support ship doses from neutron activated target ships after Shot ABLE were calculated individually for the alongside periods specified in the path report. The value following "Passing Summary" is the total free field dose in mrem encountered for the period 1 through 4 July. This dose is multiplied by a factor of 0.7 to convert it to a film badge dose which is reflected in the radiation report (see Section B-1.4).

Passing Summary 5 Plus: The value following this remark is the total free field dose in mrem encountered for the period 5 July through 24 July.

The decontamination of the target ships at Bikini caused sharp changes in the radiation intensity curves. Since the "amidships" intensity curve is used to calculate a dose when a support ship is alongside a target ship, two values of initial intensity are derived, representing before and after decontamination. These initial values are named for the target ship and are identified as "Ship 1" and "Ship 2". If the effect of decontamination was not apparent, no number is attached to the target ship.

#### B-1.4 RADIATION REPORT

This report is a day-by-day compilation of the calculated film badge dose for each ship from the various radiation sources. Each source discussed in Section 2 (Volume I) is tabulated for relevant days. A daily total and cumulative total are also included. All lagoon water activity as a result of Shot ABLE had essentially dissipated by 4 July; this provided a cutoff for reporting purposes. Any dose after 4 July is accumulated under the 5-24 July entry. The reports are variable in length because the units of CJTF- 1 departed Bikini at different times. Calculated doses include the film badge conversion and activity apportionment factors,

#### B-1.5 POST BIKINI DOSE NOMOGRAPY

The post-Bikini contamination dose nomograph shown in Figure B-5 allows the calculation of film badge dose, due to ship contamination, accrued aboard ship after leaving Bikini Atoll. The following assumptions are used:

- 1. The contamination intensity decayed as  $t^{-1.3}$ .
- 2. Initial steaming in clean water reduced the ship contamination intensity by a factor of 1/2. Further reduction in intensity was due to radioactive decay only.

3. The average sailor spent 2/3 time below deck; while above deck (1/3 time), he was shielded from the contamination (which was at and below the water line).

#### Instructions for using nomograph:

- 1. Enter horizontal axis at t<sub>o</sub>, the number of days after RAKER detonation that the ship departed Bikini Lagoon.
- 2. Enter vertical axis at t, the number of days after BAKER detonation that an individual departed the ship.
- 3. From the intersection, determine the value of the plotted function. Interpolation may be necessary.
- 4. Multiply this value by the ship contamination factor when departing Rikini (from the SUPPORT SHIP INFORMATION SUMMARY) to determine the film badge dose in mrem.

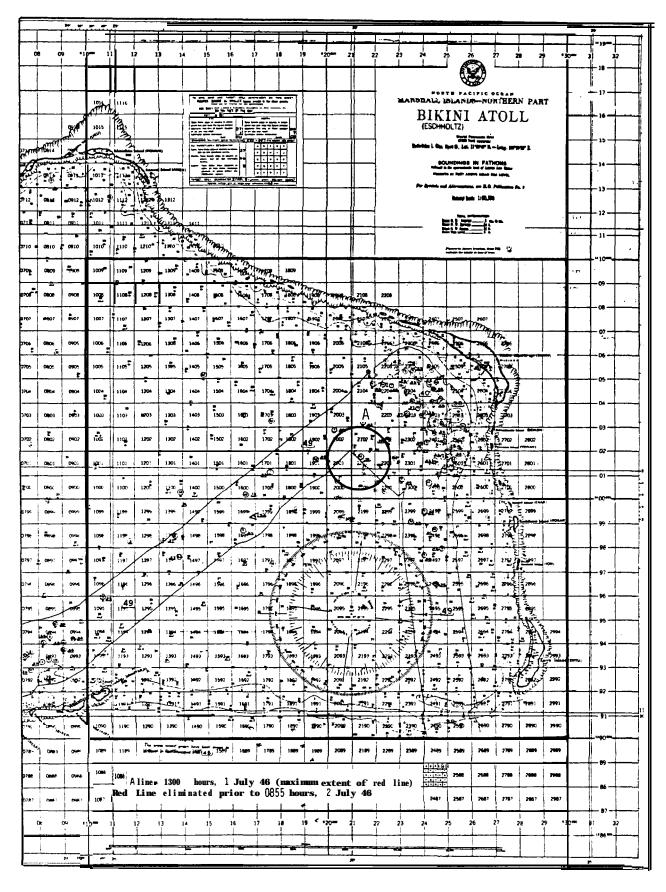


Figure B-1. Shot ABLE Red Lines (I=1.0 R/Day)

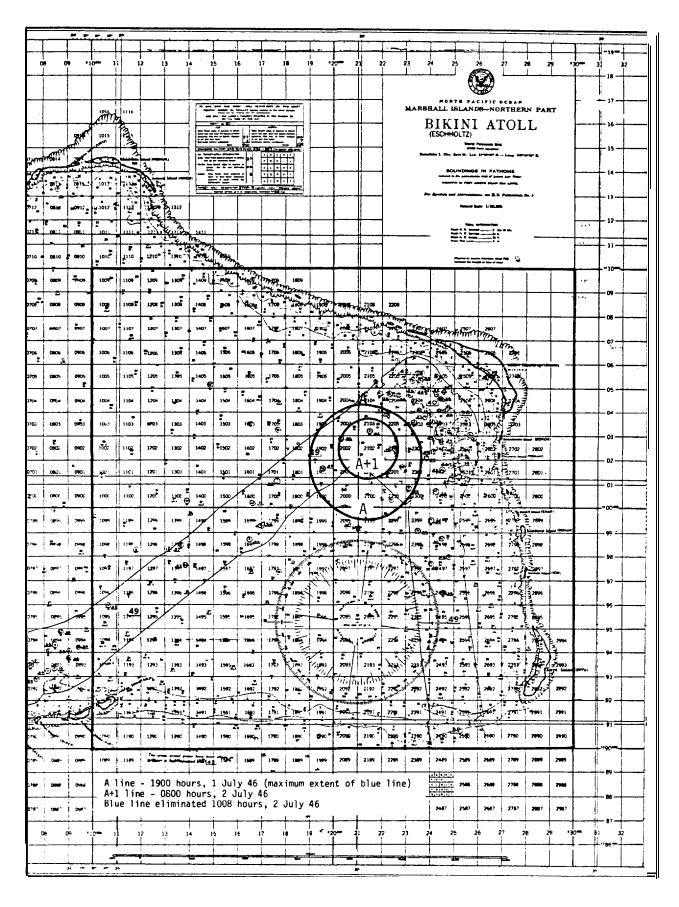


Figure B-2. Shot ABLE Blue Lines (I=0.1 R/day)

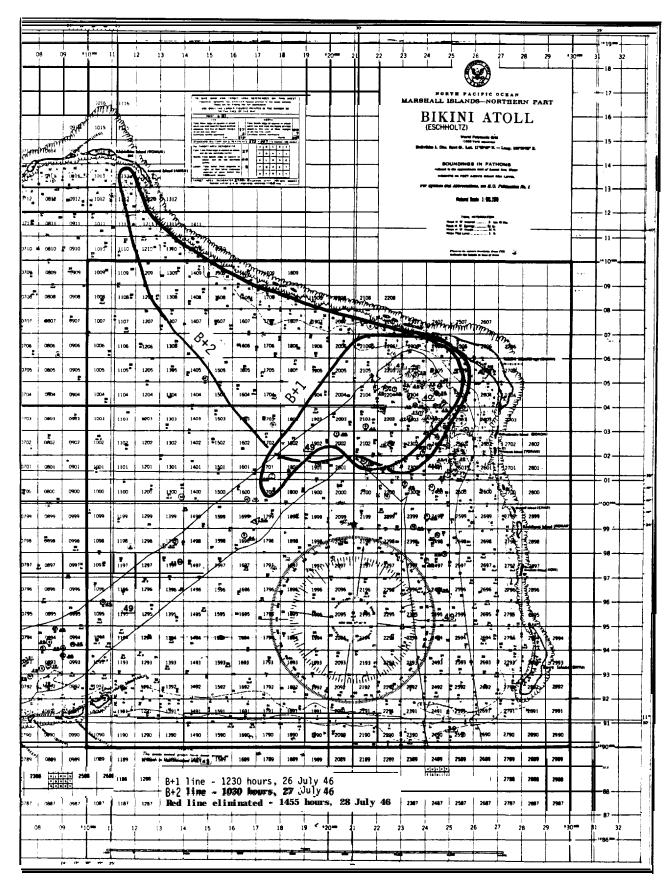


Figure B-3. Shot BAKER Red Lines (I=1.0 R/day)

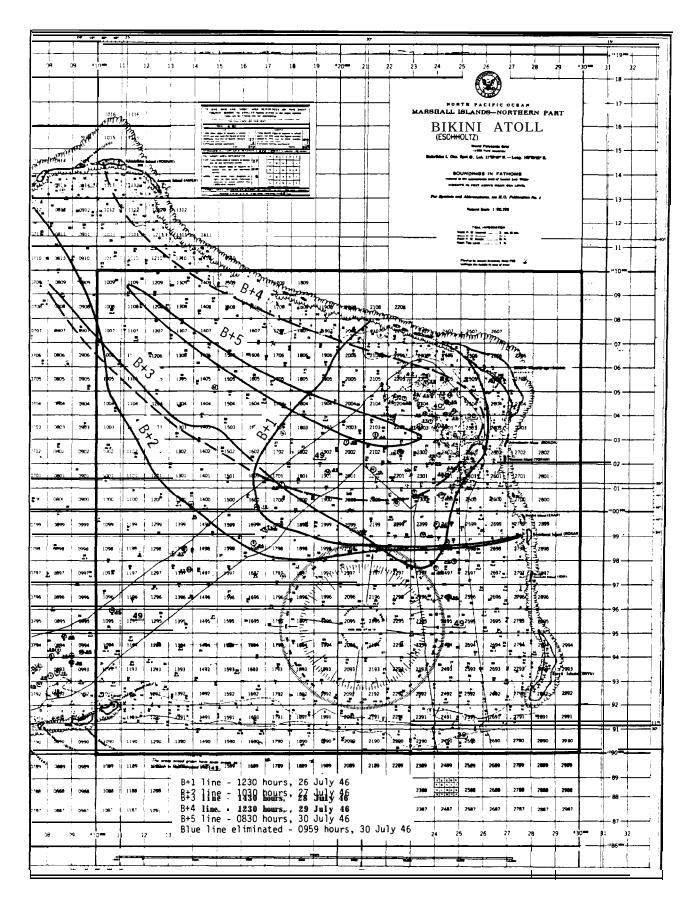


Figure B-4. Shot BAKER Blue Lines (I=0.1 R/day)

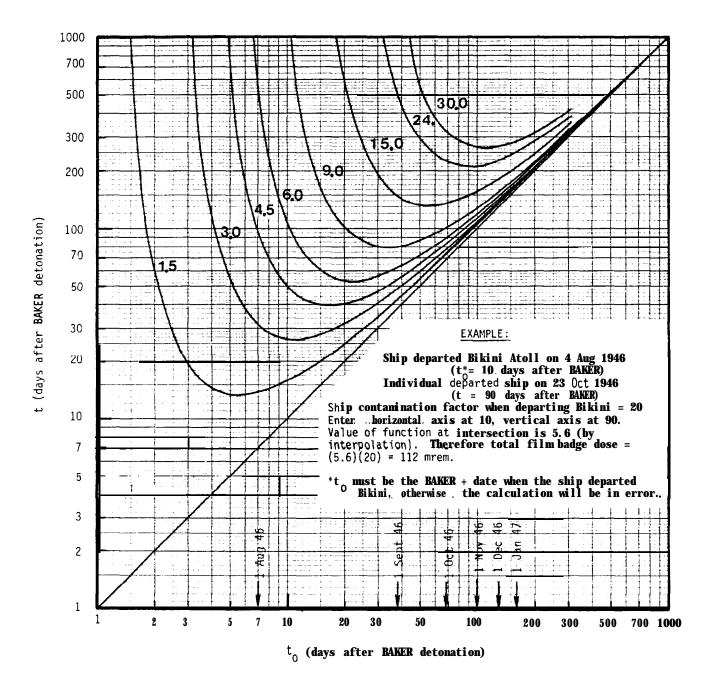


Figure B-5. Post-Bikini Dose Nonograph

 $\textbf{Table} \ \ \textbf{B-l.} \ \ \textbf{Calendar} \ \ \textbf{Date} \ \ \ \textbf{Conversion} \ \ \text{for Operation CROSSROADS}$ 

Calendar <u>Date</u>	July Date	BAKER+ Date	Calendar <u>Date</u>	July Date	BAKER+ Date	Calendar <u>Date</u>	BAKER+ Date
Jul 1, 1946			Aug 1	32	7	Sept I	38
2	02		2	33	8	5	42
3	03		3	34	9	10	47
4	04		4	35	10	15	52
5	05		5	36	11	20 25	57 62
6 7	06 07		6 7	37 38	12 13	30	62 67
8	07		8	30 39	13	30	07
9	09		9	40	15	Oct 1	68
10	10		10	41	16	5	72
II	11		11	42	17	10	77
12	12		12	43	18	15	82
13	13		13	44	19	20	87
14	14		14	45	20	25	92
15	15		15	46	21	31	98
16	16		16	47	22		
17	17		17	48	23	Nov 1	99
18	18		18	49	23	5	103
19	19		19	50	25	10	108
20	20		20	51	26	15	113
21	21		21	52	27	20	118
22 23	22		22 23	53	28	25 30	123
23 24	23 29		23 24	54 55	29 30	30	128
25	25 25	0	25	56	30 31	Dec 1	129
26	26	I	26	57	32	5	133
27	27	2	27	58	33	10	138
28	28	3	28	59	34	15	143
29	29	4	29	60	35	20	148
30	30	5	30	61	36	25	153
31	31	6	31	62	37	31	159
Jan 1, 1947		160	Feb 1, 194	17	191	Mar 1, 1947	219
5 5		164	5	•	195	5	223
10		169	10		200	10	228
15		174	15		205	15	233
20		179	20		220	20	23%
25		184	25		215	25	243
31		190	28		218	31	249

#### SECTION B-Z

#### SUPPORT SHIP

#### INFORMATION SUMMARIES

#### -----

SUPPORTSHIPINFORMATIONSUMMARY

SHIP: USS ACHOMAWI (ATF-148)

CREW SIZE: 80

GROUP: SALVAGE

MISSION: ACHOMAWI arrived at Bikini on May 26, 1946. As a member of the Salvage Unit, ACHOMAWI's duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires.

SHOT DATA:	<b>TEST</b>	DATE (TIME)	YIELD	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)	<b>23</b> KT <b>23</b> KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 1.245 REM

Date unit departed Bikini: August 29, 1946 (BAKER + 35)

Ship contamination factor when departing Bikini: 4 (this value is for use with the nomograph in Figure B-5)

# FATH REPORT FOR THE USS ACHOMAWI

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121200 9999A TOWING ASTERN USS SARATOGA FOR 2 HRS
151200 9999A ALONGSIDE Y06-83 FOR APPROXIMATELY 2 HRS
              TOWED ALONGSIDE YOG-83 FOR 1 HOUR
151201 9999A
              TOVED ALONGSIDE TARGET SHIF USS SARATOGA FOR APPROXIMA
161200 9999A
              TELY 2 HR 30 MIN
             ALONGSIDE YW 92 FOR APPROXIMATELY 8.5 HOURS
171200 9999A
              TOWED YW-92 FOR APPROXIMATELY 5 HOURS
171201 9999A
231200 9999A
             SPENT THREE HOURS CLEARING FOULED LINES DURING PROCESS
              OF MANEUVERING TO ANCHOR USS BRISCOE
250835 2591M
              OBSERVED SHOT BAKER FROM APPROXIMATELY 12 MILES
251006 2591M
             ENTERED BIKINI LAGOON
251119 2793R ANCHORED IN BERTH "G"
251300 2793R UNDERWAY TO VICINITY OF USS BLADEN
251320 2299X ARRIVED IN VICINITY OF USS BLADEN
251327 2299X
             UNDERWAY
251356 2793R
             ANCHORED IN BERTH "6"
260001 2793R ANCHORED AS BEFORE
281542 2793R
              UNDERWAY
281640 1893S ANCHORED 1375 YARDS SOUTH OF BERTH #377
290749 18935
            UNDERWAY
290831 2100G
              ALONGSIDE SKATE1
290935 21006 LEAVING
                        SKATE1
            OFF BOKON ISLAND WITH USS SKATE IN TOW
291144 2502C
291307 2797K ANCHORED OFF ION ISLAND WITH SKATE ASTERN
291504 2797K
             UNDERWAY
             ANCHORED SKATE OFF ION ISLAND
291819 2797M
291850 18938
             ANCHORED 1375 YARDS SOUTH OF BERTH X377
300745 1893S UNDERWAY TO USS SKATE AND USS TUNA
300824 2797M
              ALONGSIDE SKATE1
301315 2797M LEAVING
                        SKATE1
301327 2797M ALONGSIDE TUNA1
301635 2797M LEAVING
                        TUNAI
301705 2793R
             ANCHORED IN BERTH "6"
310741 2793R
              UNDERWAY TO USS SKATE
              ALONGSIDE SKATE1
310805 2797M
311232 2797M LEAVING
                        SKATE1
311250 2797M ALONGSIDE TUNA1
311610 2797M LEAVING
                        TUNA1
311654 2793R
             ANCHORED IN BERTH "G"
320753 2793R UNDERWAY TO USS SKATE
320821 2797M ALONGSIDE SKATE1
321225 2797M
             LEAVING
                        SKATE1
321300 2002D
             ALONGSIDE
                       STACK2
321439 2002D LEAVING
                        STACK2
321537 2002D
              ALONGST DE STACK2
321652 2002D LEAVING
                        STACK2
321705 2302K
              ANCHORED IN BERTH #145
330936 2302K
              UNDERWAY
330952 2002D
              ARRIVE IN VICINITY OF USS STACK
331100 2002D GLONGSIDE STACK2
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331355 2002D LEAVING
                       STACK2
331515 2002D UNDERWAY
331634 18938
            ANCHORED 1375 YARDS SOUTH OF BERTH X377
340731 1893S UNDERWAY
340825 2002D ALONGSIDE STACK2
341109 2002D LEAVING
                        STACK2
341207 1893S
             ANCHORED 1375 YARDS SOUTH OF BERTH #377
352400 1893S ANCHORED AS BEFORE
370921 2201Y ALONGSI DE NEW YORK2
371137 2201Y LEAVING
                       NEW YORK2
381014 2200U ALONGSIDE PENNSYLVANIA
                       PENNSYLVANIA
381409 2200U LEAVING
391303 2102H ALONGSIDE TRIPPE2
391633 2102H LEAVING
                       TRIPPE2
471040 2200U ALONGSIDE PENNSYLVANIA
471615 2200U LEAVING
                       PENNSYLVANIA
481044 2200U ALONGSIDE
                       PENNSYLVANIA
481118 2200U LEAVING
                       PENNSYLVANIA
481417 2200U ALONGSIDE PENNSYLVANIA
481526 2200U LEAVING
                       PENNSYLVANIA
500930 2001J ALONGSIDE DAWSON
                       DAWSON
501014 2001J LEAVING
501240 2591M EXITED BIKINI LAGOON WITH USS DAWSON IN TOW - ENROUTE
              KWAJALEIN
             RE-ENTERED BIKINI LAGOON
530551 2591M
531532 2591M EXITED BIKINI LAGOON WITH USS NEW YORK IN TOW - ENROUT
              E KWAJALEIN
             RE-ENTERED BIKINI LAGOON
560710 2591M
571111 2591M EXITED BIKINI LAGOON WITH USS BARROW IN TOW - ENROUTE
              KWAJALEIN
590852 2591M
             RE-ENTERED BIKINI LAGOON
601232 2591M EXITED BIKINI LAGOON WITH USS LST-133 IN TOW ON 29 AUG
              UST 1946 -- ENROUTE PEARL HARBOR VIA KWAJALEIN
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USS ACHOMAWI CALCULATED FILM BADGE DOSE (IN MREM)

	TIME	LAGOON WATER	TARGET SHIPS	CONTAMINATION		CUM TOTAL
 JUL 1		0	0		0	0
JUL 2	A+1	1	48		49	49
JUL 3	A+2	0	3		3	52
JUL 4	A+3	0	Ō		0	52
JUL 5 TI	<b>IRU 24</b>	0	0			52
JUL 25	Bt0	5	0	7	12	64
JUL 26	B+1	0	0	2	2	66
JUL 27	B+2	0	0	1	1	67
JUL 28	B+3	0	0	1	1	68
JUL 29	B + 4	5	48	18	71	139
<b>JUL</b> 30	∄+5	0	177	21	198	777
JUL 31	B+6	0	130	18	148	485
AUG 1	B+7	8	148	19	175	660
AUG 2	B+8	11	52	18	81	741
AUG 3	B+9	2	43	16	61	802
AUG 4	B t 10	0	!j	14	14	816
AUG 5	B+11	3	0	12	15	831
AUG 6	B+12	2	6	11	19	8
AUG 7	B+13	6	73	10	89	939
AUG 8	B+14	10	54	9	73	1012
AUG 9	B+15	9	0	8	17	1029
AUG 10	B+16	7	0	В	15	1044
AUG 11	B+17	7	0	7	14	1058
AUG 12	B+18	6	ij	7	13	1071
AUG 13	B+19	6	0	6	12	1083
AUG 14	B+20	5	0	6	11	1094
AUG 15	B+21	5	0	5	10	1104
AUG 16	B+22	4	53	5	62	1166
AUG 17	B+23	4	15	5	24	1190
AUG 18	B+24	3	0	4	7	1197
AUG 19	B+25	1	8	4	13	1210
AUG 20	B+26	0	0	4	4	1214
AUG 21	B+27	0	Û	4	4	1218
AUG 22	B+28	ij	0	4	4	1222
AUG 23	B+29	0	0	4	4	1226
AUG 24	B+30	0	0	3	3	1229
AUG 25	B+31	1	0	3	4	1233
AUG 26	B+32	0	0	3	3	1236
AUG 27	B+33	0	0	3	3	1239
AUG 28	B+34	0	0	3	3	1242
AUG 29	B+35	0	0	3	3	1245

#### SUPPORT SHIP INFORMATION SUMMARY

SHIP: USS AJAX (AR-6)

CREW SIZE: 753

**GROUP: SERVICE** 

MISSION: AJAX arrived at Bikini Atoll on May 1, 1946 and began to prpare for the operation. As part of the Repair and Service Unit, AJAX performed such duties as salvage, towing and emergency repair work.

SHOT DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIELD	TYPE DETONATION
	ABLE BAKEF	l July 46 <b>(0900)</b> R 25 July 46 <b>(0835)</b>	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.191 REM

Date unit departed Bikini: August 23, 1946 (BAKER + 29)

Ship contamination factor when departing Bikini: 2 (this value is for use with the nomograph in Figure B-5)

#### PATH REPORT FOR THE USS AJAX

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE - BEARING 199 DEGREES; DISTANCE 16
011815	2591M	ENTERED BIKINI LAGOON
011912	269BR	ANCHORED IN BERTH #270
021434	2698R	UNDERWAY TO SHIFT BERTHS
021455	2599D	ANCHORED IN BERTH #207
042400	25 <b>99</b> D	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER - BEARING 250 DEGREES; DISTANCE 15.5 MILES
310621	2591M	ENTERED BIKINI LAGOON
310707	2599D	ANCHORED BERTH #207
331439	2599D	UNDERWAY TO SHIFT BERTHS
331517	2394K	ANCHORED IN BERTH #385
352400	2394K	ANCHORED AS <b>BEFORE</b>
541150	239 <b>4</b> K	U ERWAY TO AJALEIN
541235	2591M	DEPARTED BIKINI <b>LAGOON</b> ON 23 AUGUST 1946

USS AJAX CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM <b>TOTAL</b>
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		Û	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 TH	IRU 2 4	0	0			0
JUL 25	B+0	0	o Ó	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	0	0	0	0	0
JUL 29	B+4	0	0	0	0	0
JUL 30	B+5	Ô	0	0	0	0
JUL 31	B+6	7	0	6	13	13
AUG 1	B+7	11	0	8	19	32
AUG 2	B+8	8	0	7	15	47
AUG 3	B+9	0	0	b	6	53
AUG 4	B+10	0	0	5	5	58
GUG 5	B+11	0	0	5	5	<b>6</b> 3
AUG 6	B+12	0	0	4	4	67
AUG 7	B+13	7	0	4	11	78
AUG 8	B+14	10	0	3	13	91
AUG 9	B+15	9	0	3	12	103
AUG 10	B+16	8	0	3	11	114
AUG 11	B+17	7	0	3	10	124
AUG 12	B+18	6	0	3	9	133
AUG 13	B+19	6	0	2	8	141
AUG 14	B+20	5	0	2	7	148
AUG 15	B+21	5	0	2	7	155
AUG 16	B+22	4	0	2	6	161
AUG 17	B+23	4	0	2	b	167
AUG 18	B+24	3	0	2	5	172
AUG 19	B+25	3	0	2	5	177
AUG 20	B+26	3	0	2	5	182
AUG 21	B+27	3	0	1	4	186
AUG 22	B+28	2	0	1	3	189
AUG 23	B+29	1	0	1	2	191

#### SUPPORTSHIPINFORMATIONSUMMARY

SHIP: USS ALBEMARLE (AV-5)

CREW SIZE: 569

GROUP: TECHNICAL

MISSION: ALBEMARLE arrived at the Marshall Islands on May 4, 1946 to prepare for CROSSROADS. As part of the laboratory unit, the ship's primary function during the operation was to provide laboratory and base facilities for the technical staff.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
		ABLE BAKER	1 July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office Misc. Chart number 11854, portions of which are reproduced in Figures El, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various **sources** which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.000 REM

Date unit departed Bikini: July 25, 1946 (BAKER DAY)

Ship contamination factor when departing Bikini: 0 (this value is for use with the nomograph in Figure B-5)

#### PATH REPORT FOR THE USS ALBEMARLE

TIME	PLACE	REMARKS
		MOORED AT KWAJALEIN FOR ABLE SHOT SHIP ENTERED BIKINI LAGOON ANCHORED IN BERTH #40
		ANCHORED <b>AS BEFORE</b> OBSERVED SHOT <b>BAKER FROM G</b> DISTANCE <b>IN EXCESS OF</b> 8 MIL
251447	2595M	111121121122
	2592M	UNDERW FROM BERTH #3  DEPARTED BIKINI LGGOON ON 25 JULY 1946  E OUTE KWAJALEIN

USS ALBEMARLE CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM <b>TOTAL</b>
JUL 1 JUL 2	A+0 A+!	0 0	0 0		0	0
JUL 3 JUL 4 JUL 5 T	A+2 A+3 HRU <b>24</b>	0 0 11	!j 0 0		0 0	0 0 0
JUL 25	B+0	0	0	0	0	0

#### SUPPORT SHIP INFORMATION SUMMARY

SHIP: USS ALLEN M. SUMNER (DD-692)

CREW SIZE: 278

GROUP: SURFACE PATROL

MISSION: ALLEN M. SUMNER arrived at Bikini Atoll on June 5, 1946, and served as part of the oceanographic and radiological task unit at CROSSROADS.

SHOT DATA: <u>TEST</u> <u>D A T E</u> ( T I <u>MYHELD</u> <u>TYPE DETONATION</u>

ABLE 1 July 46 (0900) 23 KT Air Burst (+520 feet)
BAKER 25 July 46 (0835) 23 KT Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from **the** various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.467 REM

Date unit departed Bikini: August 10, 1946 (BAKER + 16)

Ship contamination factor **when** departing Bikini: 13 (this **value** is for use with the nomograph in Figure B-5)

#### PATH REPORT FOR THE USS A M SUMNER

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TINE
      PLACE REMARKS
010900 2591M OBSERVED SHOT ABLE AT 278 DEGREES AND 19 MILES DISTANC
011535 2591M ENTERED BIKINI LAGOON
011639 2403E ANCHORED BETWEEN BERTHS 93 & 114
020940 2403E LEAVE ANCHORAGE - FOLLOW CHANNEL TO ENTRANCE
021044 2692M ANCHORED IN BERTH #386
031819 2692M UNDERWAY TO SEARCH FOR LCM ADRIFT OFF ERIC ISLAND
031835 2591M EXITED BIKINI LAGOON
040714 2591M RE-ENTERED BIKINI LAGOON
040733 2692M ANCHORED IN BERTH #386
042400 2692M ANCHORED AS BEFORE
251833 2591M ENTERED BIKINI LAGOON
251900 2197F ANCHORED
252250 2197P UNDERWAY
252309 2297E ANCHORED
260001 2297E ANCHORED AS BEFORE
260127 2297E UNDERWAY
260137 2396F PASSED CHANNEL BUOY #5 ABEAM TO STARBOARD - DISTANCE 2
              00 YARDS
260146 2396V ANCHORED
260927 2396V UNDERWAY TO NEW BERTH
260948 1996tl ANCHORED IN BERTH #313
261618 1996M UNDERWAY FROM ANCHORAGE
261635 2195K LYING TO WHILE CONDUCTING OCEANOGRAPHIC TESTS
261730 2395K LYING TO WHILE CONDUCTING DECANDGRAPHIC TESTS
261815 2395K COMPLETED TESTS - LEAVING THE AREA
261829 2595M ANCHORED - LAT. 11 DEG 32 MIN
                                                     LONG. 165 DEG
                                            NORTH
                            "B" 56 DEG "C" 16 DEG
              32 MIN EAST
261912 2595M UNDERWAY FROM ANCHORAGE
261915 29958 SIGHTED DISCOLORED WATER - SHIP CURRENTLY AT LAT. 11 D
              EG 32 MIN NORTH
                                LONG 165 DEG 32.6 MIN EAST
261938 2693M
              ANCHORED - LAT. 11 DEG 32 MIN NORTH
                                                    LONG 165 DEG 31
                         R. TAN ROKAR IS. 35 DEG R. TAN ION IS. 54
              MIN EAST
              DEG R.TAN ENYU IS 145 DEG
262013 2693M UNDERWAY
262032 2394E ANCHORED STATION #5 - R.TAN. ION IS. 35 DEG R.TAN. EN
              YU IS. 125 DEG
262120 2394E UNDERWAY
262135 2595T ANCHORED IN BERTH #369
271429 25951 UNDERWAY FROM BERTH #369
271440 2594U CHANNEL BUOY #4 ABEAM TO FORT
271446 2591M EXITED BIKINI LAGOON
271612 2591M ENTERING RADIOACTIVE OIL SLICK
271635 2591M LEAVING OIL SLICK
271749 2591M ENTERED BIKINI LAGOON
271755 2594U BUOY X4 ABEAM TO STARBOARD - 250 YARDS
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271807 2295C
             ANCHORED IN BERTH #360
281550 22950
             UNDERWGY TO NEW BERTH
281612 2296K
              ANCHORED GT BERTH #314N
282348 2296K
             UNDERWAY TO NEW BERTH BECAUSE OF HIGH RADIOACTIVITY
290011 2094A
             ANCHORED IN BERTH #353E - R. TAN ROKAR IS. 66 DEG R. TA
                                R.TAN ENYU IS. 107 DEG
              N ION IS. 75 DEG
290550 2094A
             UNDERWAY FROM GNCHORGGE
290605 2493K CHGNNEL BUOY #3 ABEAM TO PORT - 350 YARDS
290610 2591M EXITED BIKINI LAGOON
291430 2591M RE-ENTERED B IKINI LGGOON
291451 2194U ANCHOR BERTH 381
291523 2194U LEGVE FOR BERTH DOG
291541 2293M ANCHORED IN BERTH DOG
300649 2293M HEGDING OUT OF HGREOR
300700 2591M DEPART FOR KWAJALEIN
310740 2591M RE-ENTERED BIKINI LAGOON
310749 2594U BUOY #4 200 YARDS TO STGREOGRD
310755 2497U BUOY #6 150 YDS PORT
310811 2598B MOORED BERTH 250
310938 2598B LEGVE FOR BERTH 147
310956 2502U ANCHORED BETVEEN BERTHS 147 GND 145
330723 2502U LEAVE GNCHORGGE
330754 2500M MOORED AT BERTH 191 STARBOARD SIDE USS DIXIE
331445 2500M UNDERWAY FOR BERTH GEORGE
331502 2497U BUOY #6 400YDS ST6
331507 2393M BUOY #3 600YDS PORT
331515 2392A ANCHORED BERTH GEORGE
340728 2392A LEGVE TO GO TO BERTH 363
340749 2394A MOORED TO USS DIXIE IN BERTH 363
352400 2394A MOORED AS BEFORE
380747 2394A
              UNDERWAY OUT OF HARBOR
380815 2591M
             EXITED BIKINI LAGOON
381418 2591M RE-ENTERED BIKINI LGGOON
381445 2502M ANCHOR BERTH 147E
400716 2502M LEAVE FOR BERTH 324
400745 2696N MOORED BERTH 324 BY ENOREE
400849 2696N LEAVE FOR BERTH 147E
400917 2502M
             ANCHORED BERTH 147E
              UNDERWAY IN CHANNEL
410750 2502M
410824 2591M DEPARTED BIKINI LGGOON ON 10 AUGUST 1946 - ENROUTE PEA
              RL HGREOR
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USS A M SUMMER CGLCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM <b>TOTAL</b>
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		ō	Ô
JUL 3	A + ?	0	Ō		o O	Ō
JUL 4	A+3	0	0		0	0
JUL 5 T	HRU 24	0	0		•	0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	2	2	2
JUL 27	B+2	32	0	53	85	87
JUL 28	B+3	3	0	66	69	156
JUL 29	B+4	0	0	46	46	202
JUL 30	B+5	0	0	35	35	237
JUL 31	B+6	9	0	28	37	274
AUG 1	B+7	15	0	24	39	313
AUG 2	B+8	8	0	21	29	342
AUG 3	B+9	0	0	18	18	360
AUG 4	B+10	0	0	16	16	376
AUG 5	B+11	0	0	14	14	390
AUG 6	B+12	0	0	13	13	403
AUG 7	B+13	4	0	11	15	418
AUG 8	B+14	10	0	10	20	438
AUG 9	B+15	8	0	10	18	456
AUG 10	B+16	2	0	9	11	467

#### SUPPORT SHIP INFORMATION SUMMARY

SHIP: USS APL-27

CREW SIZE: 23

GROUP: UNKNOWN

MISSION: APL-27 was towed to Bikini by the USS SIOUX on 9 August 1946, where it remained moored alongside the USS GENEVA until 24 August. It was then towed to Kwajalein, where it became the change ship and personnel decontamination station.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		ABLE BAKER	1 July 46 (0900) 25 July 46 <b>(0835)</b>	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (- 90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., I Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.131 REM

Date unit departed Bikini: 24 August 1946 (Baker+30)

Ship contamination factor when departing Bikini: 5 (this value is for use with the nomograph in Figure B-5)

#### PATH REPORT FOR THE USS APL-27

TIME	PLACE	REMARKS
		****
010900	2591M	SHOT ABLE
042400	2591M	APL-27 DID NOT PARTICIPATE IN SHOT ABLE AND THEREFORE
		DID NO? ENTER BIKINI LAGOON DURING THE PERIOD 1 JULY T
		cl 4 JULY 1945
250835	2591M	SHOT BAKER
411200	2591M	ENTERED BIKINI LAGOON UNDER TOW OF USS SIOUX
411532	2305 <b>G</b>	MOORED ALONGSIDE FORTSIDE TO USS GENEVA IN BERTH 21
451330	2305G	UNDERWAY TO BERTH 113
451400	2403M	MODRED ALONG PORTSIDE GENEVABETWEEN BERTHS 113
		AND 114
550920	2403M	UNDERWAY IN TOW OF USS ATR-87
551047	2591M	DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN UNDER TOW OF
		USS ATR-87 ON 24 AUGUST 1945

USS APL-27 CALCULATED FILM BADGE DOSE (IN MREM)

DGTE	TIME	LAGOON Water	TGHGET SHIPS	SHIP CONTAMINATION	DAILY TOTGL	CUM TOTGL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	ij
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 TH	HRU 24	0	0			0
JUL 25	Bt O	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	0	0	0	0	0
JUL 29	B+4	0	0	0	0	0
1NF 30	B+5	0	0	0	0	0
JUL 31	B+6	0	0	0	0	0
GUG 1	B+7	0	0	0	0	ij
GUG 2	B+8	0	0	0	0	0
GUG 3	B+9	0	0	0	0	0
GUG 4	B+10	0	0	0	0	0
GUG 5	B+11	0	0	0	0	0
GUG 6	B+12	0	0	0	0	0
GUG 7	B+13	0	0	0	0	0
AUG 8	B+14	0	0	0	0	0
GUG 9	B+15	0	0	0	0	0
AUG 10	B+16	3	0	7	10	10
GUG 11	B+17	7	0	7	14	24
AUG 12	B+18	6	0	7	13	37
GUG 13	B+19	6	0	6	12	49
GUG 14	B+20	5	0	6	11	60
GUG 15	B+21	5	0	5	10	70
AUG 16	B+22	4	0	5	9	7 <b>9</b>
GUG 17	B+23	4	0	5	9	88
GUG 18	B+24	3	0	4	7	95
GUG 19	B+25	3	0	4	7	102
AUG 20	B+26	3	0	4	7	!09
GUG 21	B+27	3	0	4	7	116
AUG 22	B+28	2	0	4	6	122
AUG 23	B+29	2	0	4	6	128
AUG 24	B+30	0	0	3	3	131

SHIP: USS APPALACHIAN (AGC-1)

CREW SIZE: 614

GROUP: TRANSPORT

MISSION: APPALACHIAN's primary mission at CROSSROADS was to provide messing, berthing, communications support, and transportation for newspaper and other media reporters covering that event.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		I July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.001 REM

Date unit departed Bikini: July 29, 1946 (BAKER + 4)

Ship contamination factor when departing Bikini: 0 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS APPALACHIAN

TIME PLACE	REMARKS
010900 <b>2591M</b>	OBSERVED SHOT ABLE FROM POSITION APPROXIMATELY 18 MILE
	S NORTHEAST <b>OF</b> BIKINI <b>ATOLL</b>
011459 2591M	ENTERED BIKINI <b>LAGOON</b>
011609 259BE	ANCHORED BERTH #251
020950 2598E	UNDERWAY
021034 2205B	ANCHORED BERTH #9
030000 22 <b>05</b> B	ANCHORED AS BEFORE
041707 2205B	UNDERWAY TO KWAJALEIN
041800 2591M	DEPARTED BIKINI LAGDON
250835 2591M	OBSERVED SHOT BAKER AT A DISTANCE OF 9.5 MILES BEARING
	295.5 DEGREES
251723 2591M	ENTERED BIKINI LAGOON
251748 2394A	ANCHORED BERTH #363
260001 239 <b>4</b> A	ANCHORED AS BEFORE
261634 2394A	UNDERWAY TO KWAJALEIN
261722 2591M	DEPARTED BIKINI LAGOON
280834 2591M	ENTERED BIKINI LAGOON
280902 2394A	ANCHORED BERTH #363
281544 239 <b>4</b> A	UNDERWAY
281607 2194N	ANCHORED BERTH #382
291610 2194N	UNDERWAY TO KWAJALEIN
291630 2591M	DEPARTED BIKINI LAGOON 24 JULY 1946 - ENROUTE KWAJALEI
	N

USS APPALACHIAN CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TINE	<b>LAGOON</b> WATER	<b>TARGET</b> SHIPS	SHIF CONTAMINATION	DAILY <b>TOTAL</b>	CUM <b>TOTAL</b>
JUL 1	A t ()	0	ij		0	0
JUL 2	A+1	1	ő		1	1
JUL 3	A+2	0	0		0	1
JUL 4	A+3	Ο.,	0		0	1
JUL 5 TH	IRU 24	Q	0			1
JUL 25	B t 0	0	0	0	0	1
JUL 26	B+1	0	0	0	0	1
JUL 27	B+2	0	0	0	0	1
JUL 28	B+3	0	0	0	0	1
JUL 29	B t 4	0	0	0	0	1

SHIP: USS APPLING (APA-58)

CREW SIZE: 226

**GROUP: TRANSPORT** 

MISSION: APPLING, a member of the Tranport Unit, arrived at Bikini on June 3, 1946 to prepare for the operation. **One** of the primary duties of **the** personnel transports at CROSSROADS, such as APPLING, was to house the crews of target ships during and following the two detonations. APPLING had the added responsibility of acting as a base for **LCPLs** (Landing Craft, Personnel, Large) **and** their **crews used** for radiological **reconaissance work**.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains **the** geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes **and** begins **1** July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film **badge dose** for this unit from the various **sources** which it encountered while at Bikini lagoon. A daily total **and** cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.116 REM

Date unit departed Bikini: August 8, 1946 (BAKER + 14)

Ship contamination factor when departing Bikini: 7 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS APPLING

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14 14 14 14	0	5	2591M	C-U		30	9	09	ं 9	092	69 01	693	O^	591	591	14 10 10 10	591	591	302	30	097	2097K	2097K	2591M		<u></u>	PLACE
9 HOUSE BIVINI CHOSON ENVOSE IS LEHEE SHUBO	READTED STATE INCOME SECOND TO SEAST MASSON OF AND	IN BERT	EENTER BIKINI LAB	EXIT BIKINI LAGOON	UNDERWAY	D IN BE	DERWAY FROM BERTH	CHORE	WAY TO SHIFT BE	HORE	ERWAY TO SHI	NCHORED	NCHORED IN BERTH	REENTER BIKINI LAGOON	XIT BIKINI LAGO	LAUNCHIUNG RAD PATROL BOATS		OBSERVED SHOT BAKER	ED	NIG	NDERWAY FROM BERTH 2	1>	NCHO	ENTERED BIKINI LAGBON	LAUNCHING RAD PATREL BOATS of LAGOON ENTRANCE	RVED SHOT ABLE	REMARKS

USS AFFLING CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM <b>TOTAL</b>
JUL 1	A+0	0	0		0	0
JUL 2	A+1	2	0		2	2
JUL 3	A+2	0	0		0	2
JUL 4	A+3	0	0		0	2
JUL 5 TI	<b>HRU 24</b>	0	0			2
JUL 25	B+0	0	0	0	0	2
JUL 26	B+1	0	0	0	0	2
JUL 27	B+2	0	0	0	0	2
JUL 28	B+3	0	Û	0	0	2
JUL 29	B+4	0	0	0	0	2
JUL 30	B+5	3	0	b	9	11
JUL 31	B+6	7	0	13	20	31
AUG 1	B+7	13	0	11	24	55
AUG 2	B+8	12	0	9	21	76
AUG 3	B+9	0	0	8	8	84
AUG 4	B+10	0	0	7	7	91
AUG 5	B+11	0	0	b	b	97
AUG 6	B+12	0	0	6	b	103
AUG 7	B+13	0	0	5	5	108
AUG 8	B+14	3	0	5	8	116

SHIP: USS ARD-29

CREW SIZE: 106

GROUP: SERVICE

MISSION: ARD-29 (a craft **used** as a floating **drydock**) arrived at Bikini on May 26, 1946, as a member of the Repair and Service Unit. The duties of this unit included repairing, towing, **and** salvaging ships **and** supplying provisions. This unit also provided a Fleet Post Office and a motion picture exchange, as well as recreation, welfare and legal facilities.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
			July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total **are** also included up to departure from Bikini. A detailed explanation of each **source** contribution is contained in the basic report, Section 2.

Total calculated **dose** received while at Bikini: 0.265 REM

Date unit departed Bikini: August 25, 1946 (BAKER + 31)

Ship contamination factor when departing Bikini: 2 (this **value** is for use with the nomograph in Figure B-5)

TIME PLACE	REMARKS
010800 2591M	
010700 2591M	14 MINUTES EAST LONG. JUST PRIOR TO SHUT ABLE OBSERVED SHOT ABLE
020715 <b>2591M</b>	ENTERED CH EL TO BIKINI LAG
020930 269BT	MOORED TO BUOY IN BERTH 270A
042400 2698T	ANCHORED AS BEFORE
250835 2591M	AT RONGELAP ATOLL AT TILM E OF SHOT BAKER
310810 2591M	ENTERED BIKINI <b>LAGOON</b>
310945 2504B	NEAR BERTH #43
311043 2504B	ANCHORED N BERTH#43
340830 2504B	UNDERWAY IN TOW FROM BERTH
341108 2698T	ANCHORED N BERTH 270A
352400 26981	ANCHORED A S BEFORE
380855 2698T	UNDERWAY TO SHIFT BERTHS
381135 2504B	ANCHORED IN BERTH #43
560538 2504B	UN AY FOR KWAJAL
560600 2591M	DEPARTED BIKINI LAGOON ON 25 AUGUST 1946 (TIME ESTIMAT ED)

USS ARD-29 CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TIME	LAGOON <b>WATER</b>	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 T		0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	0	0	0	0	0
JUL 29	B+4	0	0	0	0	0
JUL 30	B+5	0	0	0	0	0
JUL 31	B+6	8	0	6	14	14
AUG 1	B+7	14	0	8	22	36
AUG 2	B+8	14	0	7	21	57
AUG 3	B+9	1b	0	6	22	79
AUG 4	B+10	14	0	5	19	98
AUG 5	B+11	13	0	5	18	116
AUG 6	B+12	12	0	4	16	132
AUG 7	B+13	11	0	4	15	147
AUG 8	B+14	10	0	3	13	160
AUG 9	B+15	9	0	2	12	172
<b>AUG</b> 10	B+16	8	0	3	11	183
<b>AUG</b> 11	B+17	7	0	3	10	193
AUG 12	B+18	6	0	3	9	
AUG 13	B+19	6	0	2	8	210
AUG 14	B+20	5	0	2	7	217
<b>AUG</b> 15	B+21	5	0	2	7	224
AUG 16	B+22	4	0	2	6	230
AUG 17	B+23	4	0	2	6	236
AUG 18	B+24	3	0	2	5	241
AUG 19	B+25	3	0	2	5	246
AUG 20	B+26	3	0	2	5	251
AUG 21	B+27	3	0	1	4	255
AUG 22	B+28	2	0	1	3	258
AUG 23	B+29	2	0	1	3	261
AUG 24	B+30	2	0	1	3	264
AUG 25	B+31	0	0	1	1	265

SHIP: USS ARTEMIS (AKA-21)

CREW SIZE: 160

**GROUP: TRANSPORT** 

MISSION: ARTEMIS arrived at Bikini on May 27, 1946, to prepare for the operation. Although originally designated as a target ship, ARTEMIS instead functioned as a base for radiological LCPLs and their crews during CROSSROADS.

SHOT	DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIHLD)	TYPE DETONATION
		ABLE BAKER	1 July 46 <b>(0900)</b> 25 July 46 <b>(0835)</b>	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes **and** begins I July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each **source** contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.216 REM

Date unit departed Bikini: August 18, 1946 (BAKER + 24)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

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DEPLOY RAD PATROL BOATS AND
REENTERING BIKINI LAGSON
FASSED ENTRANCE BUOY ABEAM
ANCHORED IN BERTH 296
UNDERWAY FROM BERTH 17
ANCHORED AS BEFORE
OBSERVED SHOT BAKER FROM A D
MILES
AT LAGOON ENTRANCE
DROPPED OFF RAD PATROL BOATS
REENTER BANCHORED UNDERWAY ANCHORED UNDERWAY EXITING LANCHORED 
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TO SHIFT BERTH
TO SHIFT BERTH
TO SHIFT BERTH
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FROM USS CORTL
FROM USS CORTL
FROM USS CORTL
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IN BERTH #2
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IN BERTH #34
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USS ARTEMIS CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TINE	LAGOON Water	TARGET SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM <b>TOTAL</b>
JUL 1	A+0	0	0		0	0
JUL 2	A+1	2	0		2	2
JUL 3	A+2	0	0		0	2
JUL 4	A+3	0	0		0	2
JUL 5 TH	IRU 2 4	0	0		-	2 2
JUL 25	B+0	0	0	0	0	2
JUL 26	B+1	0	0	0	0	2
JUL 27	B+2	0	0	0	0	2 2
JUL 28	B+3	0	0	0	0	
JUL 29	B+4	0	0	0	0	2
JUL 30	B+5	3	0	6	9	11
JUL 31	B+6	1 1	0	13	24	35
AUG 1	B+7	1 4	0	11	25	60
AUG 2	B+8	8	0	9	17	77
AUG 3	B+9	0	0	8	8	85
AUG 4	B+10	0	0	7	7	92
AUG 5	B+11	0	0	6	6	98
AUG 6	B+12	0	0	6	6	104
AUG 7	B+13	6	0	5	11	115
AUG 8	B+14	10	0	5	15	130
AUG 9	B+15	7	0	4	11	141
AUG 10	B+16	8	0	4	12	153
AUG 11	B+17	7	0	4	11	164
AUG 12	B+18	6	0	3	9	173
AUG 13	B+19	6	0	3 3	9	182
AUG 14	B+20	5	0	3	8	190
AUG 15	B+21	5	0	3	8	198
AUG 16	B+22	4	0	3	7	5
AUG 17	B+23	4	0	2	6	211
AUG 18	B+24	3	0	2	5	216

SHIP: USS ATA-124

CREW SIZE: 44

GROUP: SERVICE

MISSION: ATA-124 arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As part of the Repair and Service Unit, ATA-124 performed such duties as salvage, towing, and emergency repairs work.

SHOT DATA: <u>TEST</u> <u>D A T E</u> ( T I <u>MYIHLD</u>) <u>TYPE DETONATION</u>

ABLE 1 July 46 (0900) <u>23 KT</u> Air Burst (+520 feet)
BAKER 25 July 46 (0835) <u>23 KT</u> Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.359 REM

Date unit departed Bikini: August 25, 1946 (BAKER + 31)

Ship contamination factor when departing Bikini: 5 (this value is for use with the nomograph in Figure B-5)

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TIME PLGCE REMARKS
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01 00 2591M OESERVED SHOT GDLE WHILE ENROUTE FROM BIKINI GTOLL TO
             KWAJGLEIN GTOLL
030934 2591M ENTERED BIKINI LGGOON
 0947 2493F FGSSED BUOY #3 150 YGRDS TO PORT
031108 2504H ANCHORED YW92 (WHICH WGS IN TOW) IN EERTH #60
031142 2600K GNCHORED IN BERTH 191-G
031428 2600K UNDERWAY FROM BERTH
031445 24010 ALONGSIDE LCI-329
031637 2401@ LEAVING
                       LCT-329
031715 26955 ALONGSIDE USS WILDCAT
031751 2695S UNDERWAY FROM USS WILDCAT
031815 2600K ANCHORED IN BERTH 191-A
032359 2600K PASSING SUMMARY 0
() 41) () ()
             "S \mbox{\tt M} " IS a FICTITIOUS SHIP USED TO RECORD THE DOSE
             RECEIVED BY THE ATG-124 WHILE ALONGSIDE TGRGET SHIPS
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          Y ALONGSIDE PGRCHE
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041246 2100M
             ALONGSIDE GPOGON
041 21 M
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941825 2599N ANCHORED OFF BOW OF USS FULTON FOR REPAIR IN VICINITY
              OF BERTH 231
042359 2599N
             PASSING
                       SUMMERY 2
042400 2599N
             ANCHORED AS BEFORE
051200 9999A
             PASSING
                      SUMMERY 5 PLUS 2
051201 9999A
             SUMMARY 5 PLUS IS THE SUM TOTGL OF ALL FREE FIELD TGRG
             ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
              ULY THROUGH 24 JULY
120 0 9999A FROM 0750 TO 0830 MOORED TO USS NEW YORK
120845 9999A MOORED TO USS PENSACOLA FROM 0845 TO 0935
120957 9999A MORED TO USS SKATE FROM 0957 TO 1037
141045 9999A MORED TO USS NEVADA FROM 1045 TO 1100
180836 9999A MOORED TO USS SKIPJACK FROH 0836 TO 0934
180945 9999G MOORED TO USS DENTUDA FROM 0945 TO 1059
181107 9999A MOORED TO USS SKATE FROM 1107 TO 1230
270940 9999G MOORED TO USS GRKANSGS FROM 0940 TO 0955
221013 9999A MOORED TO USS NEVADA FROM 1013 TO 1015
221024 9999G MOORED TO NAGATO FROM 1024 TO 1030
221030 9999A MOORED TO ARD-29 FROM 1030 TO 1124
221510 9999G MORED TO PRINZ EUGEN FROM 1510 TO 1555
231557 9999A MORED TO GRD-29 FROM 1557 TO 1840
250835 2591M OBSERVED SHOT BAKER
280725 2591M ENTERED BIKINI LAGOON
280810 2794P GNCHORED IN BERTH "R"
281030 2794P UNDERWAY FROM BERTH
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USS ATA-124 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON Water	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	Α,	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	O		0	0
JUL 4	A+3	0	1		1	1
JUL 5	THRU 24	0	1			2
JUL 25	<b>B</b> t 0	0	0	0	0	2
JUL 26	B+1	0	0	0	0	2 2
JUL 27	B+2	0	0	0	Ō	2
JUL 28	B+3	0	0	1	1	3
JUL 29	B+4	0	0 .		1	4
JUL 30	B+5	2	0	6	8	12
JUL 31	B+6	9	0	25	34	46
AUG 1	Et7	11	0	2 1	32	78
AUG 2	B+8	9	0	18	27	105
AUG 3	B+9	2	0	16	18	123
AUG 4	B+10	0	0	14	14	137
AUG 5	B+11	0	0	12	12	149
AUG 6	B+12	2	0	11	13	162
AUG 7	B+13	5	0	10	15	177
AUG 8	B+14	10	0	9	19	196
AUG 9	Et 15	9	0	8	17	213
AUG 10	B+16	8	0	8	16	229
AUG 11	B+17	7	0	7	14	243
AUG 12	Et18	6	1	7	14	257
AUG 13	B+19	6	0	6	12	269
AUG 14	B+20	5	0	6	11	280
AUG 15	Et21	5	0	5	10	290
AUG 16	B+22	4	0	5	9	299
AUG 17	B+23	2	0	5	7	306
AUG 18	Et24	3	0	4	7	313
AUG 19	B+25	3	0	4	7	3
AUG 20	B+26	3	0	4	7	327
AUG 21	B+27	3	0	4	7	334
AUG 22	Et28	2	9	4	15	349
AUG 23	Et29	0	0	4	4	353
AUG 24	Et30	0	0	3	3	356
AUG 25	B+31	0	0	3	3	359

SHIP: USS ATA-180

CREW SIZE: 45

GROUP: SALVAGE

MISSION: ATA-180 arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As a member of the Salvage Unit, ATA-180's main duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
		1 July 46 (0900) 25 July 46 <b>(0835)</b>	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.547 REM

Date unit departed Bikini: September 1, 1946 (BAKER + 38)

Ship contamination factor when departing Bikini: 4 (this value is for use with the nomograph in Figure B-5)

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TIME PLACE REMARKS
010900 2591M OBSERVED SHOT ABLE FROM AREA MERCURY
011330 2591M ENTER BIKINI LAGOON (ESTIMATED TIME)
011400 2501K EAST OF TGRGET ARRAY
011730 2501K UNDERWAY FOR ANCHORAGE
011750 2594M ANCHORED IN BERTH "QUEEN"
020848 2594M UNDERWAY
020920 24026 STAND BY USS HAVEN
020925 2402G UNDERWAY FROM USS HAVEN
020940 2101Y IN VICINITY OF USS INDEPENDENCE
020945 2201U ALONGSIDE NAGATO
021010 2201U LEAVING
                       NAGATO
021011 2201U TIME OF LEAVING NAGATO IS ESTIMATED
021015 2101Y BY USS INDEPENDENCE
021215 2101Y UNDERWAY WITH USS INDEPENDENCE IN TOW
021645 15960 ANCHORED USS INDEPENDENCE AT BERTH #307
021735 15960 UNDERWAY FOR USS HAVEN
021815 23048 NEAR USS HAVEN
021858 2794P ANCHORED IN BERTH "R"
022359 2794P PASSING SUMMARY 2
022400 2794P SUMMARY IS A FICTITIOUS SHIP USED TO RECORD THE DOSE R
              ECEIVED BY ATA-180 WHILE ALONGSIDE TGRGET SHIPS AFTER
              SHOT ABLE
030920 2794P UNDERWAY FROM BERTH "R"
030945 2100G ALONGSIDE ARDC-13
031420 27950 LEAVING ARDC-13
031505 27950 UNDERWAY TO ANCHORAGE
031512 2594M ANCHORED IN BERTH "QUEEN"
032400 2594M PASSING
                       SUMMARY 45
042400 2594M ANCHORED AS BEFORE
051200 9999A PASSING SUMMARY 5 PLUS 2
051201 9999A SUMMARY 5 PLUS IS THE SUM TOTAL OF GLL FREE FIELD TARG
              ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
             ULY THROUGH 24 JULY
060750 2201P ALDNGS IDE NEVADA
061125 2598R LEAVING NEVADA
071005 9999A FROM 1005 TO 1250 ASSISTED IN TOWING NAGATO
071310 2204U ALONGSIDE LSM-60
071312 2204U LEAVING LSM-60
080700 2204U GLONGSI DE LSM-60
080817 2304E LEAVING
081520 2304E GLONGS I DE LSM-60
081717 2204U LEAVING LSM-60
111245 9999A TOWING ARDC-13 FROM 1245 TO 1410
111440 9999A MOORED TO YO-160 TO ASSIST IN TOWING AND BEACHING OPER
              ATIONS FROM 1440 TO 1540
130910 9999A FROM 0910 TO 1605 ASSISTED IN TOWING AND MOORING ARDC-
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310949 2101B LEAVING
                        BRULE
311000 2001J ALONGSIDE DAWSON
311008 2001J LEAVING
                        DAWSON
311015 2001L ALONGSIDE CRITTENDEN
311035 2001L LEAVING
                      CRITTENDEN
311050 2304N STAND BY USS KENNETH WHITING
311056 2304N UNDERWAY FOR USS HGVEN
311104 2304B STAND BY USS HAVEN
311111 2304B UNDERWAY FOR ANCHORAGE
311223 2793F
              ANCHORED IN BERTH "J"
320758 2793F
             UNDERWAY FROM ANCHORAGE
320824 25990 ANCHORED 268 YARDS OFF STARBOARD BEAM OF USS FULTON
321207 25990 UNDERWAY FROM USS FULTON
321220 25010 ALONGSIDE USS QUARTZ (ESTIMATED TIME)
321430 25010
              DERWAY FROM uss QUARTZ
321506 2793F
              ANCHROED IN BERTH "J"
331400 2793F
              UNDERWAY FROM PERTH "J"
331452 1992E
              ANCHORED 1575 YARDS SOUTH OF BERTH #379
340755 1992E UNDERWAY FROM ANCHORAGE
340830 2200B NEAR USS GASCONADE
340946 2200B UNDERWAY FROM USS GASCONADE
340952 22001 ALONGSIDE BRISCOE2
340958 22001 LEAVING
                        BRISCOE2
341007 2200B RESUME WASHING DOWN USS GASCONADE
341045 2200B SECURE FROM WASH DOWN
341100 2200B
                DER Y FOR ANCHILRAGE
341140 1992E ANCHORED 1575 YARDS SOUTH OF BERTH #379
             ANCHORED AS BEFORE
351700 1992E
             ALONGSIDE WILSON?
501055 2002E
501157 2002E
             LEAVING
                        WILSON2
501328 2591M EXITED BIKINI LAGOON FOR KWAJALEIN WITH USS WILSON IN
              TOW
540600 2591M
              FE-ENTERED BIKINI LAGOON
541240 1903W
             ALONGSIDE WAINWRIGHT2
541350 1903W
             LEAVING
                        WAINWRIGHT2
541500 2591M
              EXITED BIKINI LAGOON FOR KNAJALEIN WITH USS WAINWRIGHT
              IN TOW
570630 2591M
             RE-ENTERED BIKINI LAGOON
571243 2894H
              ALONGSIDE HUGHES
571252 2894H
             LEAVING
                      HUGHES
             EXITED BIKINI LAGOON FOR KWAJALEIN WITH USS HUGHES IN
571320 2591M
600540 2591M
             RE-ENTERED BIKINI LAGOON
             ALONGSIDE LCI-332
631236 23010
431350 2401G
             LEAVING
                        LCI-332
631351 24016
              ALONGSIDE LCI-327
631550 2401G
              LEAVING
                        LCI-327
631630 2591M DEPARTED BIKINI ATOLL FOR KWAJALEIN WITH LCI-327 AND L
              CI-332 IN TOW -- ON 1 SEPTEMBER 1946
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USS ATA-180 CALCULATED FILM BGDGE DOSE (IN MREM)

DATE	TINE	LAGOON Water	TARGET SHIPS	SHIP CONTAMINATION	DGILY TOTAL	CUM TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	2	1		3	3
JUL 3	A+2	ō	32		32	3 <b>5</b>
JUL 4	A+3	ŏ	0		0	35
JUL 5 Th		0	1		V	36
JUL 3 IF	1RU Z 4	V	1			36
JUL 25	B+0	5	0	9	14	50
JUL 26	B+1	ō	0	5	5	55
JUL 27	B+2	0	0	2	2	57
JUL 28	B+3	3	6	12	21	78
JUL 29	B+4	ō	ō	16	lb	94
JUL 30	B+5	5	52	21	78	172
JUL 31	B+6	3	42	22	67	239
AUG 1	B+7	3	0	19	22	261
GUG 2	B+8	0	Ö	18	18	279
GUG 2 GUG 3	B+9	1	i	16	18	297
GUG 4	B+10	o	ō	14	14	311
AUG 5	B+11	0	ő	12	12	323
AUG 5	B+12	2	ŏ	11	13	336
GUG 7	B+13	5	0	10	15	351
AUG 8	B+14	10	Ŏ	9	19	370
AUG 9	B+15	9	o o	8	17	387
GUG 10	B+16	8	ő	8	lb	4
GUG 11	B+17	7	ő	7	14	417
AUG 12	B+18	6	ő	7	13	430
GUG 13	B+19	6	Ö	6	12	442
<b>GUG</b> 14	B+20	5	ő	6	11	453
GUG 15	B+21	5	Ö	5	10	463
AUG 16	B+22	4	Ö	5	9	472
AUG 17	B+23	4	Ö	5	9	481
AUG 18	B+24	3	0	4	7	488
GUG 19	B+25	1	6	4	11	499
GUG 20	B+26	Ô	0	4	4	503
AUG 21	B+27	0	Ö	4	4	<b>5</b> 07
AUG 22	B+28	Ö	ŏ	4	4	511
AUG 23	B+29	0	1	4	5	516
GUG 24	B+30	0	ō	3	3	519
AUG 25	B+31	0	Ö	3	3	522
GUG 26	B+32	0	0	3	3	525
GUG 27	B+33	0	ő	3	3	528
AUG 28	B+34	0	0	3	3	531
AUG 29	B+35	1	0	3	4	535
GUG 30	B+36	-	0	3	4	539
AUG 31	B+37	1	0	3 3	4	543
		1	2	2		
SEP 1	8+38	0	4	∠	4	547

SHIP: USS ATA-185

CREW SIZE: 43

GROUP: SALVAGE

MISSION: ATA-185 arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As a member of the Salvage Unit, ATA-185's main duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires.

SHOT	DATA:	<b>TEST</b>	DATE (TIME)	YIELD	TYPE DETONATION
			July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.593 REM

Date unit departed Bikini: September 5, 1946 (BAKER + 42)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

H H H H	FLACE	REMARKS
	00 00 M	MANEUVERING ABOUT OFF BIKINI ATOLL WITH TASK FORCE 1.2 7 "T TIME OF SHOT ABLE
	1000 1000 1000	NT*R*D BIKIN LAGOORY TO *ASI OF TARGENAY TO BERTH '
020700 020700 020730	27.40H 27.40H 94.09H	ANCHUKED IN BAKI' "K" «NDARWBY FROM ANCHORBG» - BY TO IN VICINITY OF HSS HAVEN
. 60 u	) () ()   († +	
22.0	2101D 2101D 2101Y	
i Car	21017	OF GLACIA
व (घ	-4 PO	NDERWPY FROM USS HAVEN
021425 021442	2304N	MOGRED TO USS KANNAT* WHITING Underway
2152 2233	L L	ANCHORED IN BERTH "R" PPGGING SIMMARY 22
2240		S A FICTITIOUS SHIP USED TO RECORD THE
424	2793H	5.4.
٠ د د	21010	ALON*SIDE YO-160
051035 051200	2101U 9999A	
נים	V 6 6 6 6	UMMARY 5 PLUS IS THE SUM FIGHTP ANGES RECEIVED BY
		24 JULY
061415	D- 0	M°°R*® TO NAGATO FROM 1415 TO 1812 CDOM 1010 TO 1155 ACCICTED IN TOWING NAGATO
040170	40000	TOTO TO TISS HOSTSTEP IN COMING CURRENT BEGAN TOWING NAGATO WITH
100740	0000	TO ASSIST AT 0840 CAST OFF TOW 0740 MODRED TO USE 45KANSES TO ASS
· > >	· -	BERTH AT 1445 UNDERWAY AFTER ANCHORING USS A
111600	500	STING IN TOWING USS NEVADA FROM 1600 TO 1
120655	V6666	AT 0655 ARRIVED AT USS SARATOGA AND STOOD BY TO ASSIST IN SHIFTING TO NEW BERTH AT 1040 CAST OFF FROM USS SABSTOGA
200900	<b>86666</b>	
220620	<b>V</b> 6666	0620 AR
250835	2591M	AFDGUN OBSERVED SHOT BAKER IN COMPANY OF TU-1.2.7 OFF BIKINI

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ATOLL
251120 2591M ENTERED BIKINI LAGOON
251155 2793K ANCHORED - "A" 136.5 DEG "B" 12 DEG
260001 2793K ANCHORED AS BEFORE
261430 2793K UNDERWAY TO SHIFT BERIHS
261450 2693Y ANCHORED 300 'YARDS FROM BERTH "K"
281544 2693Y UNDERWAY FROM ANCHORAGE
281616 1992C ANCHORED - "[" 39 DEG "A" 92 DEG
290728 19920 UNDERWAY FROM ANCHORAGE
290740 21940 BY USS KENNETH WHITING
290758 21940 UNDERWAY
290820 2202V ALONGSIDE NAGATO
290907 2202V LEAVING
                       NAGATO
290930 2201Y ALONGSIDE NEW YORK1
290931 2201Y TIME OF ARRIVAL AT USS NEW YORK IS ESTIMATED
291000 2201Y LEAVING
                       NEW YORK1
291022 2201Y PROCEED TO USS PENSACOLA
291040 2101Q BY USS PENSACOLA
291133 20945 ALONGSIDE USS KENNETH WHITING
291159 20945
             DERWAY
291212 1993V ANCHORED " "A" 93 DEG "C" 40 DEG
              DERWAY
300725 1993V
300741 2094S LYING TO BY USS KENNETH WHITING
300750 2293A LYING TO BY USS HAVEN
300820 2293A UNDERWAY TO USS BANNER
300852 1901X ARRIVE AT USS BANNER
300900 1901X RECOVERED
                        INSTRUMENTS
300910 2002L ARRIVE AT PRINZ EUGEN
300915 2002L COMPLETED INSTRUMENT RECOVERY
300940 2200U ARRIVED AT USS PENNSYLVANIA
300950 2200U COMPLETED INSTRUMENT RECOVERY
301000 2200S ARRIVE AT USS CATRON
301020 22008 COMPLETED INSTRUMENT RECOVERY
301023 2200B ARRIVED AT USS GASCONADE
301027 2200B COMPLETED INSTRUMENT RECOVERY
301038 22001 COMPLETED INSTRUMENT RECGVERY AT USS BRISCOE
301100 2301A COMPLETED INSTRUMENT RECOVERY AT USS SALT LAKE CITY
301118 2202K COMPLETED INSTRUMENT RECOVERY AT USS NEVADA
301144 2101B COMPLETED INSTRUMENT RECOVERY AT USS BRULE
301207 21010 AT USS PENSACOLA
301223 2000D COMPLETED INSTRUMENT RECOVERY AT USS INDEPENDENCE
301248 2304N LY TO AT USS KENNETH WHITING
301315 2304N UNDERWAY TO LST-861
301331 2604F LY TO LST-861
301429 2793K ANCHORED IN BERTH "K"
320730 2793K UNDERWAY FROM ANCHORAGE
320815 2304N ARRIVED AT USS KENNETH WHITING
320857 2101B RECOVERED INSTRUMENTS FROM USS BRULE
320912 2000D RECOVERED INSTRUMENTS FROM USS INDEPENDENCE
320935 19017 RECOVERED INSTRUMENTS FROM USS BARROW
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320 <b>958</b> 2200B	RECOVERED INSTRUMENTS FROM USS GASCONADE
321017 2304N	ARRIVED IN VICINITY OF USS KENNETH VHITING
321027 2304N	UNDERWAY
321108 27 <b>9</b> 3K	ANCHORED IN BERTH "K"
331413 2793K	UNDERWAY
331442 1993V	ANCHORED 1700 YARDS SOUTH OF BERTH #378 - "A" 92.5 DEG
	"C" 40 DEG
372400 1993V	ANCHORED AS BEFORE
510955 22000	ALONGSIDE PENNSYLVANIA
511230 2200U	LEAVING FENN LVANIA
561730 2101I	ALONGSIDE FALLON
561800 2101I	LEAVING FALLON
671728 2591M	DEPARTED BIKINILAGOON FOR KWAJALEIN IN TANDEM TOW WIT
	H USS CONSERVER TOWING LCT-1184; LCT-1420; AND YOG-83
	<b>ON</b> 5 <b>SEPTEMBER</b> 1946

USS ATA-185 CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	4	15		19	19
JUL 3	A+2	0	0		0	19
JUL 4	A+3	0	0		0	19
JUL 5 T	HRU 24	0	4			2 <b>i</b>
JUL 25	B+0	0	0	0	0	2 3
JUL <i>26</i>	B+1	0	0	0	0	23
JUL 27	B+2	0	0	0	0	23
JUL 28	B+3	0	0	0	0	23
JUL 29	B+4	4	162	lb	182	205
JUL 30	B+5	3	0	22	25	<i>230</i>
JUL 31	B+6	0	0	21	21	251
AUG 1	B+7	2	0	18	20	271
AUG 2	B+8	0	0	17	17	288
AUG 3	Bt9	0	0	14	14	<i>302</i>
AUG 4	B+10	0	0	13	13	315
AUG 5	B+11	0	0	11	11	326
AUG 6	B+12	0	0	10	10	336
AUG 7	Et13	6	0	10	1b	352
AUG 8	B+14	10	0	9	19	371
AUG 9	B+15	9	0	a	17	3 <b>88</b>
AUG 10	B+16	a	0	a	1b	404
AUG 1 1	B+17	7	0	7	14	418
AUG 12	B+1B	6	0	7	13	431
AUG 13	B+19	6	0	6	12	443
AUG 14	B+20	5	0	6	11	454
AUG 15	Et21	5	0	5	10	464
AUG 16	B+22	4	0	5	9	473
AUG 17	B+23	4	0	5	9	482
AUG 18	B+24	3	0	4	7	489
AUG 19	B+25	3	0	4	7	496
AUG 20	B+26	3	20	4	27	<i>523</i>
AUG 21	B+27	3	0	4	7	530
AUG 22	8+28	2	0	4	6	536
AUG 23	B+29	2	0	4	6	<i>542</i>
AUG 24	B+30	2	0	3	5	547
AUG 25	B+31	2	7	3	12	<i>559</i>
AUG 26	B+32	1	0	3	4	563
AUG 27	B+33	1	0	3	4	567
AUG 28	B+34	1	0	3	4	571
AUG 29	Bt35	1	0	3	4	575
AUG 30	B+36	l .	0	3	4	579 500
AUG 31	B+37	1	0	3	4	<i>583</i>
SEP 1	B+38	0	0	2	2	585
SEP 2	Bt39	0	0	2	2	587
SEP 3	B+40	0	0	2	2	589
SEP 4	B+41	0	0	2	2	591 500
SEP 5	Bt42	0	0	2	2	593

SHIP: USS ATA-187

CREW SIZE: 33

**GROUP: SERVICE** 

MISSION: ATA-187 arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As part of the Repair and Service Unit, ATA-187 performed such duties as salvage, towing, and emergency repair work.

SHOT DATA: <u>TEST</u> <u>D A T E</u> ( T I <u>WIHLD</u>) <u>TYPE DETONATION</u>

ABLE | July 46 (0900) **23** KT Air Burst (+520 feet)

BAKER 25 July 46 (0835) **23** KT Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.347 REM

Date unit departed Bikini: August 24, 1946 (BAKER + 30)

Ship contamination factor when departing Bikini: 5 (this **value** is for use with the nomograph in Figure B-5)

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TIME FLACE REMARKS
              ______
      2591M OBSERVED SHOT GRLE
010
011913 2591M ENTERED BIKINI LAGOON
011950 2595L ANCHOR NEAR BERTH #368 - R.TGN. BIKIN1 12 DEG L.TAN.
             ENYU 108 DEG "5" 54 DEG
020808 2595L UNDERWAY
020825 2591M MOORED TO ARD-29
021021 2698T UNDERWAY FROM ARD-29
021152 240
             BY US S WHARTON
021222 2401F ANCHORED - "5" 7.5 DEG "C" 62.5 DEG "B" 157 DEG
030748 2601F UNDERWAY FROM GNCHORGGE
030826 2595T BY USS PRESQUE ISLE TO RECOVER ANCHOR
031510 2595T UNDERWGY
031508 26040 MOORED TO USS PRESQUE ISLE
032400 26040 ANCHORED AS BEFORE
041137 2604Q UNSERWAY
041300 2504Y LSM-60 ALONGSIDE FOR TOW
041324 2505U ANCHORED LSM-60 IN BERTH #38
041338 2505U UNDER WAY FROM M-60
041404 2405T UNDERWAY WITH YW-92 ALONGSIDE (ESTIMATED POSITION)
041452 2502L YW 92 PUT GLONGSIDE GRB-8 ANS UNDERWAY FOR GNCHDRGGE
041515 26040 MOORED TO USS PRESQUE ISLE
042400 26040 MOORED AS BEFORE
250835 2591M OBSERVED SHOT BAKER - BEARING 247 DEGREES (DISTANCE UN
             KNOwN)
310809 2591M ENTERED BIKINI LAGOON
310844 2591M PASS BUOY #1
310915 25027 LAY TO OFF USS BARTON
310925 2502T UNDERWGY FROM USS EGRION
310948 2591M MADE FAST TO ARD-29 TO TOW
311044 2504B ANCHORED IN BERTH #48 WITH TON
311105 26036 UNDERWAY FOR SMALL BOAT FOOL
311132 26036 ANCHORED IN BERTH #117
311235 26036 UNDERWAY FROM BERTH #117
311332 2601P ANCHORED IN BERTH #169
311457 2601P UNDERWAY FROM BERTH #169
311515 2695W LAY TO OFF USS SEVERN
311705 2695W MOORES TO USS SEVERN
311736 2695W UNDERWGY FROM USS SEVERN
311818 2402H MOORED TO USS HESPERIG
311846 2402H UNDERWAY FROM USS HESPERIG
311900 2601F ANCHORED IN BERTH #117
331541 2601P UNDERWAY
331600 2204D NEAR USS SGIDOR (ESTIMATED)
331830 25940 NEAR USS HESPERIA
331905 25940 UNDERWGY
331945 2594J ANCHORED IN BERTH "P"
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340510 2594J UNDERWAY
340700 2504B MADE FAST TO ARD-29
340831 2504B UNDERWAY WITH ARD-29
341110 26987 ARD-29 ANCHORED
341119 2698T UNDERWAY FROM ARD-29
341127 26948 ANCHORED IN BERTH "R"
341504 26948 UNDERWAY FROM ANCHORAGE TO SEARCH FOR WHALE POATS ADRI
341645 2694S ANCHORD IN BERTH "R"
342400 26945 ANCHORED AS BEFORE
360855 2002D ALONGSIDE STACK2
360946 2002D LEAVING
                       STACK2
361034 2591M EXITED BIKINI LAGOON TO DUMP DEPTH CHARGES
361220 2591M RE-ENTERED BIKINI LAGOON
410740 2591M EXITED BIKINI LAGOON WITH LCI-620 IN TOW FOR SINKING
411108 2591M RE-ENTERED BIKINI LAGOON
531135 2504B ALONGS I DE HUGHES
531432 2202U LEAVING
                       HUGHES
550900 2591M DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN WITH SF-990 I
             N TOW -- ON 24 AUGUST 1946
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USS ATA-187 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	0	0	**************************************	0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 T	HRU 24	0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	0	0	0	0	0
JUL 29	Bt4	0	0	0	0	0
JUL 30	B+5	0	0	0	0	0
JUL 31	B+6	6	0	14	20	2 0
AUG 1	Bt7	12	0	21	33	53
AUG 2	Bt8	10	0	18	28	81
AUG 3	Bt9	2	0	16	18	99
AUG 4	B+10	3	0	14	17	116
AUG 5	B+11	0	10	12	22	138
AUG 6	B+12	1	0	11	12	150
AUG 7	Bt13	6	0	10	16	166
AUG 8	B+14	10	0	9	19	185
AUG 9	B+15	9	0	8	17	202
AUG 10	B+16	6	0	8	14	216
AUG 11	Bt17	7	0	7	14	230
AUG 12	Bt18	6	0	7	13	243
<b>AUG 13</b>	Bt19	6	0	6	12	255
<b>AUG 14</b>	B+20	4	0	6	10	265
AUG 15	Bt21	5	0	5	10	275
AUG 16	Bt22	4	0	5	9	284
AUG 17	Bt23	4	0	5	9	293
AUG 18	B+24	3	0	4	7	300
AUG 19	B+25	3	0	4	7	307
AUG 20	B+26	3	0	4	7	314
AUG 21	Bt27	3	0	4	7	321
AUG 22	Bt28	2	11	4	17	338
AUG 23	B+29	2	0	4	6	344
AUG 24	B+30	0	0	3	3	347

SHIP: USS ATA-192

CREW SIZE: 15

GROUP: SALVAGE

MISSION: ATA-192 arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As a member of the Salvage Unit, ATA-192's main duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires,

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
			1 July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins I July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.547 REM

Date unit departed Bikini: September 2, 1946 (BAKER + 39)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

TIME	PLACE	REMARKS
		OBSERVED SHOT ABLE
		ENTERED BIKINI LAGOON
		FIGHT FIRE ON THE USS NIAGARA
		FIGHT FIRE ON THE USS BLADEN
		PROCEED TO USS BRACKEN
		FIGHT FIRE ON USS BRACKEN UNDERWGY TO EGST OF TGRGET GRRGY
0 11440		LAY TO EAST OF TGRGET ARRAY
011		UNDERVAY TO ANCHORAGE
		GNCHORED IN BERTH "S"
		UNDERWAY
		LAY TO OFF USS HAVEN
020815		UNDERWAY TO TGRGET ARRAY
020	21010	IN VICINITY OF YO-160
021045		UNDERWGY WITH YO-160 IN TOW
021229	2499H	MOORED YO-160 NEGR BERTH 229 (SPENT 30 MINUTES GLONGS I
		DE Y0-160)
021510		UNDERWAY TO ANCHORAGE
021528		
022359		PASSING SUMMARY 81
030947 031039		UNDERWAY FROM BERTH ALONGSIDE ARDC-13
031204		LEAVING ARDC-13
031431		BEACH ARDC-13 ON REEF NEAR ENYU ISLAND - FOS IT ION ESTI
201401	27700	MATED
031433	27950	STANDING CLEGR OF ARDC- 13
031507	2795K	PROCEEDING TO ANCHORAGE
031517	2793M	ANCHORED IN BERTH "S"
032359	2793M	SUMMARY IS A FICTITIOUS SHIF USED TO RECORD THE DOSE R
		ECEIVED BY GTG-192 WHILE ALONGSIDE TARGET SHIPS AFTER
		SHOT ABLE
032400		PASSING SUMMARY 13
042400 051145		GNCHORED GS BEFORE GLONGSIDE LCI-332
051200		FGSSING SUMMARY 5 FLUS 2
051201		SUMMARY 5 FLUS IS THE SUM TOTAL OF ALL FREE FIELD TGRG
		ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
		ULY THROUGH 24 JULY
051227	2301R	LEAVING LCI-332
061400	22010	ALONGSIDE <b>NGGGTO</b>
061402		LEGVING NGGGTO
061416		GLONGSIDE NGGATO
061731		LEGVING NGGGTO
070614		ALONGSIDE NGGGTO
071220		
100725	AAAAH	FROM 0725 TO 1236 ASSISTED IN SHIFTING USS ARKANSAS TO

291041 291052 291058 291108 291115 251314 251333 260001 605 706 <u>ा</u> 6 206 1010 <u>ි</u> Ln. CII **+** N خلد 227938 27938 27938 27938 27938 27938 27931 27931 2100P 2100P 2100P 2200P 2200P 22000 22000 22000 22000 22000 22000 22000 9999A 9999A 2002) 2002) 2102 2202 2001L 2001J 19017 279 279 279 279 2101B -0 9999A 40 99 ÷ 99 Ö 00 W 33 33 40 12 ō 40 -0 -0 ALONGSIDE DEN-UDA1

LEAVING DEN-UDA1

UNDERWAY WILH USS DENT DA IN TOW

RELIEVED OF TOW BY USS ATO-180

ANCHORED 1700 YARDS SOUTH OF BERTH

UNDERWAY

IN VICINITY OF OSS NEW YORK

IN VICINITY OF OSS BRISCOE

IN VICINITY OF OSS CATRON ING BERTHS
FROM 0527 TO 0613 MOOR
OBSERVED SHOT BAKER
ENTERED BIKINI LA OON
ANCHORED IN BERTH "I"
UNDERWAY TO TARGE ARR
ESTIMATED T ME ANT POS
ANCHORED AS BEFORE ANCHORED IN BERTHD"I ANCHORED AS BEFORE UNDERWAY TO AID IN B AID IN BEACHING USS RETURN TO ANCHORAGE ANCHORED IN BERTH "I UNDERWAY FROM BERTH MOORED NEXT TO USS DI IN VICINITY
IN VICINITY FROM ודי ודי **111 111 111** AT 1624 | S VESSEL FROM 1010 ហហ⊅≂ AY 70 34 ROM 70 Ξ ROM 0641 Σ BERTH TO BERTH 1059 0645 0554 1010 Ξ ă 呂 Ħ 5 검 **الد** 0 m 무무 0819 1350  $\circ$ U **⊢** 837 1705 1120  $\circ$ 55N 55N USS USS USS USS USS USS USS 55N 55N BOARDING ŭ Ó Ü ASSISTED
ASSISTED
ASSISTED
ASSISTED MIDRED ASS B GASCONADE PENSACOLA INDEPENDENCE POSITI ARRAY STACK BRULE DAWSON BARROW E I L 12 EUGEN 띪 BEACHING MAYRANT BRDCKez NEVADA CRITTENDEN ú ENNSYLVANIA N4 c DD S S . 50N TED 77 ARTY 9 -AND  $\Box$ IN TOWING รรถ ZZ 980 ů, BERTH MOVING BNIAOW ທ D NAGATO SALT BOARD MAYRANT HUGHE LAKE SSU AND C Y 0 - 1 ç ហ ന്ന് MOVING YOG-SARATOGA CRITTENDEN CITY IN SHI 60 SexeTo Z mVDDD 70 JOE Š 5 Ξ

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291210 22020 PROCEED TO USS KENNETH WHITING
1291250 2094S LGY TO BY USS KENNETH WHITING
291310 2094S UNDERWGY FROM USS KENNETH WHITING
 291323 1893N MOORED TO USS GTE-87
291332 1893N CAST OFF FROM USS GTH-87
291354 1892D GNCHORED 1700 YARDS SOUTH OF BERTH #377
300749 1892D UNDERWAY
300850 2201D BY LET-810
300900 2201D ALONGSTDE
                        LCT- 816
300957 2894H LEGVING
                        LCT-B16
300958 2894H LYING TO
301130 2894H UNDERWAY
301154 27938 ANCHORED IN BERTH "I"
301446 2793B UNDERWAY
301515 2202V MOORED TO USS PRESERVER
301653 2202V UNDERWAY
301703 2793B ANCHORED IN BERTH "I"
311244 2793B UNDERWAY
311309 2794C MOORED NEXT TO USS PGLMXHG
311325 2794C UNDERWGY FROM USS PGLMYRG
311415 2393M TWO MILES WEST OF ENYU ISLAND
311450 2794C MOORED TO USS PGLMYRG
311650 27940 UNDERWGY FROM USS PGLMYRG
 311701 2793B ANCHORED IN BERTH "I"
320730 2793B UNDERWAY
320838 2102X WASHING DOWN USS MGYRGNT
321027 2102H WASHING DOWN USS TRIPPE
 321155 2102H UNDERWGY FOR USS AVERY ISLAND
321225 22051 UNDERWGY TO USS WILDCAT
 321309 25959 MOORED ALONGSIDE USS WILDCGT
 321402 2595S UNDERWGY FROM USS WILDCAT
 321417 2793B ANCHORED IN BERTH "I"
 331359 2793B UNDERWAY FROM BERTH "I"
 331437 1892D ANCHORED 1450 YARDS SOUTH OF BERTH #377
 340745 1892D UNDERWAY FROM BERTH
340859 2102X WASHING DOWN USS MGYRGNT
341056 2102X PROCEED TO ANCHORAGE
 341143 1892D ANCHORED NEAR BERTH #377
 352400 1892D ANCHORED AS BEFORE
 401821 1800V ALONGSIDE COHTLGND
 401827 1800V LEGVING
                        CORTLGND
 501028 2002D ALONGSIDE STACK2
 501135 2002D LEAVING
                        STACK2
 501347 2591M DEPGRTED BIKINI LAGOON FOR KYGJGLEIN WITH USS STACK IN
               TOW
 540946 2591M RE-ENTER BIKINI LAGOON
 551035 2200B GLONGSIDE
                         GGSCONGDE2
 551209 22008 LEGVING
                        GASCONADE2
 551330 2591M DEPARTED BIKINI LAGOON FOR KWAJALEIN WITH USS GGSCONGD
              E IN TOW
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580925 2591M RE-ENTER BIKINI LAGOON
581019 1901X ALONGS IDE BANNER
581143 1901X LEAVING BANNER
581326 2591M DEPARTED BIKINI LAGOON WITH USS BANNER IN TOW
620650 2591M RE-ENTER BIKINI LAGOON
640750 1701E ALONGSIDE LCT-1013
641357 1700E ALONGSIDE LCT-705
641555 1700E LEAVING LCT-705
641556 1700E LEAVING LCT-1013
641651 2591M DEPARTED BIKINI LAGOON WITH LCT-1013 AND LCT-705 IN TO
W ON 2 SEPTEMBER 1946 - ENROUTE KWAJALEIN
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USS ATA-192 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL	A+0	0	0		0	0
JUL 2	A+1	2	57		59	59
JUL 3	A+2	0	9		9	68
JUL 4	A+3	0	0		0	68
JUL 5 TI	HRU 24	0	1			69
JUL 25	B+0	5	0	9	1 4	83
JUL 26	B+1	0	0	5	5	88
JUL 27	B+2	0	0	2	2	90
JUL 28	B+3	4	1	14	19	109
JUL 29	B+4	5	0	29	34	14'
JUL 30	B+5	2	29	27	58	201
JUL 31	B+6	0	0	22	22	223
AUG 1	B+7	3	0	19	22	245
AUG ≥	8+8	0	0	18	18	263
AUG 3	B+9	1	0	16	17	280
AUG 4	B+10	0	0	14	14	294
AUG 5	B+11	0	0	12	12	306
AUG 6	B+12	2	0	11	13	319
AUG 7	B+13	7	0	10	17	336
AUG 8	B+14	9	0	9	18	<b>35</b> 4
AUG 9	B+15	9	0	8	17	371
AUG 10	B+16	8	0	8	16	387
<b>GUG</b> 11	B+17	7	0	7	14	401
AUG 12	B+18	6	0	7	13	414
<b>GUG</b> 13	et19	6	0	6	1 2	426
AUG 14	B+20	5	0	6	11	437
<b>GUG</b> 15	B+21	5	0	5	10	447
AUG 16	B+22	4	0	5	9	456
GUG 17	B+23	4	0	5	9	465
AUG 18	B+24	3	0	4	7	472
AUG 1?	B+25	1	4	4	9	481
GUG 20	B+26	0	0	4	4	485
<b>GUG</b> 21	B+27	0	0	4	4	489
AUG 22	B+28	0	0	4	4	493
AUG 23	B+29	1	0	4	5	498
AUG 24	B+30	1	16	3	20	518
<b>GUG 25</b>	B+31	0	0	3	3 7 3	521
AUG <b>26</b>	B+32	0	0	3	5	524
AUG <b>27</b>	B+33	0	1	3	4 3	528
GUG 28	B+34	0	0	3	3	<b>5</b> 31
AUG <b>29</b>	B+35	0	0	3	3	534
AUG 30	B+36	0	0	3	3	537
<b>GUG</b> 31	B+37	0	0	3	3	540
SEP 1	B+38	O	0	2	2	542
SEP 2	B+39	0	3	2	5	547

SHIP: USS ATR-40

CREW SIZE: 68

GROUP: SALVAGE

MISSION: ATR-40 arrived at Bikini on May 21, 1946. As a member of the Salvage Unit, ATR-40's duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires.

SHOT DATA:	TEST	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION	
		1 July 46 (0900) R 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90	feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.903 REM

Date unit departed Bikini: August 23, 1946 (BAKER + 29)

Ship contamination factor when departing Bikini: 5 (this value is for use with the nomograph in Figure B-5)

TIME	PLACE	REMARKS
		****
	2591M	
011313		ENTERED BIKINI LAGOON
011400	2399B	COMMENCED PLAYING WATER ON FIRE LOCATED AMIDSHIP - FOR T SIDE
011430	2399B	PULLING AWAY
011434	2499M	FIRE OUT; PULLED AWAY TO EAST OF ARRAY AWAITING FURTHE R ORDERS
011537	2200P	VENT ALONGSIDE USS CURRENT FOR GEIGER CHECK - RESULTS NEGGTIVE
011600	2200P	LEAVING USS CURRENT TO EAST SIDE OF TGRGET ARAY
		ANCHORED IN BERTH "JIG"
020705		UNDERWAY - ASSIST CLEGRING DGMGGED SHIPS
021501		ANCHORED IN BERTH "JIG"
042400		ANCHORED AS BEFORE
050807		UNDERVGY TO NEW ANCHORAGE
051200		PASS1 NG SUMMARY 5 PLUS 4
051201		SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TGRG
		ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
		ULY THROUGH 24 JULY
060723	2100J	ALONGSIDE SALT LAKE CITY
060937		LEAVING SALT LAKE CITY
061032		ALONGSIDDE PENSACOLA
061349		LEAVING PENSACOLA
061457		GLONGSIDE SALT LAKE CITY
061630		LEAVING SALT LAKE CITY
071113		ALONGSIDE DAWSON
071251		LEAVING DGVSON
171300		ALONGSIDE USS CRITTENDEN FOR 3 HOURS
171301		ALONGSIDE NAGGTO FOR THREE HOURS
201200		ALONGSIDE Y0-160 FOR THREE HOURS WHILE ASSISTING IN AN
		CHORING
250835	2591M	OBSERVED SHOT BAKER ("EXPLOSION VISIBLE AND AUDIBLE; BUT NO NOTICEABLE WAVES IN GREG OF THIS VESSEL"!
251057	2591M	ENTERED BIKINI LAGOON
		GNCHORED IN BERTH "OBOE"
		GNCHORED AS BEFORE
		UNDERWIGY TO STAND CLEAR WHILE USS RECLGIMER BEACHES US
		S HUGHES AT ENYU [SLAND
		GNCHORED - "A" 143.5 DEG POLE ON N. TGNGENT ENYU IS. 5 9 DEG
271115		WASH DOWN OF USS HUGHES COMFLETED; RETURNING TO ANCHOR GGE
		MOORED STARBOARD SIDE TO USS RECLGIMER
271245	2693B	UNDERWAY TO ASSIST BEACHING USS FGLLON
271313	2101I	GLONGSIDE FALLON
271319	2101I	LEGVING FGLLON

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271323 21011 ALONGSIDE FGLLON
271328 21011 LEAVING
                        FGLLON
271405 2894H ALONGSIDE
                       FGLLON
271413 2894H LEAVING
                        FGLLON
271455 2693B MOORED TO USS RECLAIMER
271521 2693B UNDERWAY TO ANCHORAGE
271528 2794M ANCHORED IN BERTH "080E"
281514 2794M UNDERWAY SHIFTING BERTHS
             ANCHORED - "E" 21.5 DEG
281409 1893D
                                         " 70 DEG "C" 46 DEG
291125 1893D UNDERWAY TO WASH DOWN USS NEW YORK
291205 2201Y
              COMMENCED FLAYING WATER ON NEW YORK
291430 2201Y WASH DOWN COMPLETED; PROCEEDING TO USS RECLAIMER
291503 2894H MODRED PORT SIDE TO "SS RECLAIMER
291602 2894H CAST OFF FROM USS RECLAIMER; PROCEEDING TO ANCHORAGE
291630 2794M ANCHORED IN BERTH "OBOE"
300731 2794M
              UNDERWAY TO USS NEW YORK
             COMMENCED WASHDOWN OF USS NEW YORK
300900 2201Y
              MANEUVERING CLOSE ABOARD "SS NEW YORK TO MONITOR RADIO
301235 2201Y
                TIVITY
301312
              MONITORING COMPLETED: PROCEEDING TO GNCHORGGE
         017
             ANCHORED - POLE 71 DEG "A" 162 DEE
301340 2794M
310825 2794M
             UNDERWAY TO "SS PALMYRA FOR FRESH WATER WATER ANT! FOAM
              ITF
310905 27940
              MOORED STARBOARD SIDE TO USS FALMYRA
311030 27940
              UNDERWAY FROM USS FALMYRA TO BIKINI LGGOON ENTRGNCE TO
              DUMP RUBBISH
311050 2591M
             EXITED BIKINI LAGOON
311109 2591M RE-ENTERED BIKINI LAGOON - ENROUTE USS NEW YORK
311155 2201Y ALONGSIDE NEW YORK1
311215 2201Y LEAVING
                       MEW YORK 1
311540 2201Y
              "NDEFVGY TO "SS WILDCAT FOR FRESH WATER
311712 25958
             MODRED PORT SIDE TO "SS WILDCAT
311741 25958 UNDERWAY TO ANCHORAGE
311752 2794M ANCHORED IN BERTH "0BDE"
330936 2794M UNDERWAY TO ATR-87
330950 2794G MOORED TO ATR-87 IN BERTH NAN
330953 27946 UNDERWAY TOWING GTE-67 TO NEW BERTH
331029 2694W ATR-97 ANCHORED - "A" 136.5 DEG "c" 2 DEG
                                                         "B" 25 DEG
331353 2604W UNDERWAY TOWING ATR-87 TO NEW BERTH
             ATR-87 ANCHORED - "H" 259 DEG "B" 346 DEG
331502 1793N
352400 1793N ANCHORED AS BEFORE
380845 2200U ALONGSIDE PENNSYLVANIA
380951 2200U LEAVING
                        PENNSYLVANIA
381519 2200U ALONGSIDE
                       PENNSYLVANIA
381713 2200U LEAVING
                        PENNSYLVANIA
390900 2202K ALONGSIDE NEVADA i
391122 2202K
                        NEVADA1
              LEAVING
400813 2200U GLONGSIDE PENNSYLVANIA
401618 2200U LEAVING
                       PENNSYLVANIA
410832 2200U GLONGSIDE PENNSYLVANIA
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411634	2200U	LEAVING	<b>PENNSYLVANIA</b>						
500728	2003U	ALONGS IDE	MUGFORD2						
500937	2003U	LEAVING	MUGFORD2						
540910	2591M	ALONGSIDE	SKATE2						
541018	2591M	LEAVING	SKATE2						
541122	2591M	DEPARTED	BIKINI LAGOON	WITH USS	SKATE I	N TOW	ON	23	AUG
		UST 1946 -	- ENROUTE KWA	AJALEIN					

USS ATR-40 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	3	0		3	3
JUL 2	At1	0	0		0	3
JUL 3	A+2	0	0		0	3 <b>3</b> 3 5 6
JUL 4	A+3	0	0		0	3
JUL 5 T	HRU 24	0	3			6
JUL 25	B+0	0	0	0	0	6
JUL 26	B+1	0	0	0	0	6
JUL 27	B+2	2	137	9	148	154
<b>JUL 28</b>	B+3	1	0	17	18	172
JUL 29	B+4	5	0	21	26	19B
JUL 30	8+5	5	0	30	35	773
JUL 31	B+6	4	12	25	41	274
AUG 1	Bt7	1	0	21	22	<i>296</i>
AUG 2	B+8	2	0	18	20	316
AUG 3	B+9	0	0	lb	lb	332
AUG 4	B+10	0	0	14	14	<b>346</b>
AUG 5	B+11	0	0	12	12	<b>358</b>
AUG 6	B+12	3	0	11	14	372
AUG 7	B+13	5	55	10	70	442
AUG 8	<b>Bt14</b>	9	56	9	74	516
AUG 9	B+15	9	125	В	142	<i>658</i>
AUG 10	B+16	В	114	В	130	<i>788</i>
AUG 11	B+17	7	0	7	14	802
AUG 12	B+18	6	0	7	13	815
<b>AUG</b> 13	B+19	6	0	6	12	827
<b>AUG 14</b>	B+20	5	0	Ь	11	838
<b>AUG 15</b>	B+21	5	0	5	10	848
<b>AUG lb</b>	B+22	4	0	5	9	<b>857</b>
AUG 17	B+23	4	0	5	9	<b>866</b>
AUG 18	<b>Bt24</b>	3	0	4	7	<b>873</b>
AUG 19	B+25	1	4	4	9	882
<b>AUG</b> 20	B+26	0	0	4	4	886
<b>AUG 21</b>	B+27	0	0	4	4	<b>890</b>
AUG 22	8+28	1	0	4	5	<b>895</b>
AUG 23	B+29	0	4	4	8	903

SHIP: USS ATR-87

CREW SIZE: 69

GROUP: SALVAGE

MISSION: ATR-87 arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As a member of the Salvage Unit, ATR-87's main duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires.

SHOT DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIHLD)	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.485 REM

Date unit departed Bikini: September 1, 1946 (BAKER + 38)

Ship contamination factor when departing Bikini: 4 (this value is for **use** with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS ATR-87

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TIME PLACE REMA S
_____
010900 2591M OBSERVED SHOT ABLE FROM A DISTANCE OF APPROXIMATELY 24
             MILES EAST
011219 2591M ENTERED BIKINI LGGPON
011307 2692D PASS FALL RIVER - 900 YARDS TO STARBOARD
011425 2200U ARRIVED AT USS PENNSYLVANIA TO FIGHT FIRE
011446 2200U UNDERW FROM PEN YL
                                    I G
011645 1800W ARRIVE AT USS CORTLAND TO FIGHT FIRE
011805 1800W WITHDRAW FROM AREA
011850 2693X ANCHORED BERTH KING
020841 2693X UNDERWAY FROM ANCHORAGE
020920 24026 STANDING BY USS HAVEN
020928 24026 PROCEED TO AREA OF USS INDEPENDENCE
021010 2101Y NEAR USS INDEPENDENCE
021017 2101Y PROCEED TO USS DAVIGON
021230 2001R STANDING OFF USS DAVISON
021445 2001R PROCEED TO ANCHORAGE
021544 2692E ANCHORED BERTH KING
042400 2692E ANCHORED AS BEFORE
050903 2201B ALONGSIDE LET-1114
051029 2201B LEAVING
                      LCT- 1114
051030 2201B AT 1029 UNDERWAY WITH LCT-1114 IN TOW ON PORTSIDE -- A
             T 1328 MOORED LET-1114 STARBOARD SIDE TO LCT-1115
051328 22018 ALONGSIDE LCT-1114
051332 2201B LEAVING LCT-1114
052358 9999A PASSING
                       SUMMARY 5 PLUS 1
052359 9999A SJ... Y 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARG
             ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
             ULY THROUGH 24 JULY
060745 2201P ALONGSIDE NEVADA
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070845 9999A STANDING BY USS RHIND FROM 0845 TO 0937
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071134 2001I LEAVING
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110848 9999A USS BRULE UNDERWAY TO ANCHORAGE -- ASSISTED BY USS REC
             LAIMER WITH ATR-67 ON FORT QUARTER -- AT 1049 ATE-87 U
             NDERWAY FROM BRULE
111205 9999A FROM 1205 TO 1223 MOORED TO USS FALLON TO PREPARE IN S
             HIFTING BERTHS
111223 9999A
             AT 1223 USS FALLON UNDERWAY ASISTED BY ATR-87 ON THE S
             TARBOARD BOW -- AT 1450 ATR-87 UNDERWAY FROM USS FALLO
120800 7999A STANDING BY AS USS HUGHES GETS UNDERWAY -- AT 0835 U
             NDERWAY TO ANCHORAGE
170923 9999A FROM 0923 TO 1230 MODRED TO USS SALT LAKE CITY
171315 9999A FROM 1315 TO 1335 ALONGSIDE NAGATO
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USS ATR-87 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	A+0	b	0		6	b
JUL 2	A+1	3	0		3	9
JUL 3	At2	0	0		0	9
JUL 4	A+3	0	0		0	Ģ
JUL 5 T	HRU 2 4	0	1			10
JUL 25	B + 0	0	0	0	0	10
JUL 26	B+1	0	0	0	0	10
JUL 27	B+2	0	0	0	0	10
JUL 28	B+3	0	0	0	0	10
JUL 29	B+4	0	0	1	1	11
JUL 30	B+5	4	32	lb	52	63
JUL 31	B+9	3	0	23	26	89
AUG 1	B+7	1	0	19	20	109
AUG 2	B+8	0	0	17	17	126
AUG 3	B+9	0	0	15	15	141
AUG 4	B+10	0	0	13	13	154
AUG 5	B+11	0	0	11	11	lb5
<b>AUG</b> b	B+12	3	17	11	31	196
AUG 7	Bt13	3	13	10	26	222
AUG 8	B+14	8	0	9	17	239
AUG 9	B+15	9	13	8	30	269
AUG 10	B+16	8	50	8	66	335
AUG 11	Bt17	7	0	7	14	349
AUG 12	8+18	b	0	7	13	362
<b>AUG</b> 13	B+19	b	0	b	12	374
AUG 14	B+20	4	0	b	10	384
AUG 15	B+21	5	0	5	10	394
AUG 1 b	B+22	4	0	5	9	403
AUG 17	B+23	4	0	5	9	412
AUG 18	B+24	3	0	4	7	419
AUG 19	B+25	3	0	4	7	426
AUG 20	B+26	1	7	4	12	438
<b>AUG</b> 21	B+27	0	0	4	4	442
AUG 11-	Bt28	0	0	4	4	44b
AUG 23	B+29	1	0	4	5	451
AUG 24	B+30	0	0	3	3	454
AUG 25	B+31	0	0	3	3	457
AUG 26	B+32	0	0	3	3	460
AUG 27	B+33	0	0	3	3	463
AUG 28	B+34	0	1	3	4	467
AUG 29	B+35	0	0	3	3	470
<b>AUG</b> 30	B+36	0	0	3	3	473
<b>AUG</b> 31	B+37	1	0	3	4	477
SEP 1	8+38	0	b	2	8	485

SHIP: USS AVERY ISLAND (AG-76)

CREW SIZE: 483

GROUP: TECHNICAL

MISSION: AVERY ISLAND arrived at Bikini in the spring of 1946 to begin preparations for CROSSROADS. The ship was assigned to the Instrumentation Unit which furnished laboratory and base facilities during the operation.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
			1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-I support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film **badge dose** for this unit from the various sources which it encountered while at Bikini lagoon. A daily total **and** cumulative total are also included up to departure from Bikini. A detailed explanation of each **source** contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.147 REM

Date unit departed Bikini: August 7, 1946 (BAKER + 13)

Ship contamination factor when departing Bikini: 8 (this **value** is for **use** with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS AVERY ISLAND

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE
011438	2591M	ENTERED BIKINI LAGOON
011545	2204K	ANCHORED IN BERTH 54
011603	2204K	UNDERWAY <b>From Berth 54</b>
011632	2402W	ANCHORED IN BERTH 145
021225	2402W	UNDERWAY FROM EERTH 145
021251	2203U	ANCHORED IN BERTH 108A
042400	22030	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER
251419	2591M	ENTERED BIKINI LAGOON
251443	2795F	ANCHORED IN EERIH "B"
260001	2795F	ANCHORED AS BEFORE
281710	279 <b>5</b> F	UNDERWAY FROM BERTH "B"
281800	2393I	PASSED BUDY #3 LEAVING HARBOR
281810	2591M	EXIT BIKINI LAGOON
		REENTER BIKI NILAGOON
		PASSED BUOY #3
		ANCHORED IN <b>EERTH</b> "K"
300758	2292H	UNDERWAY FROM BERTH "K"
		ANCHORED I N BER T H 2 0
		UNDERWAY <b>from Eerth 2</b> 0
		ANCHORED IN BERTH "B"
		UN DE RAMA Y
380953	2591M	DEPART BIKINI <b>LAGOON FOR SAN</b> FRANCISCO 07 AUG 1946

USS AVERY ISLAND CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	<b>LAGOON</b> WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM <b>TOTAL</b>
JUL 1	<b>A</b> +0	3	0		3	3
JUL 2	A+1	8	0		8	11
JUL 3	A+2	1	0		1	12
JUL 4	A+3	0	0		0	12
JUL 5 T	HRU 24	0	0			12
JUL 25	8+0	0	0	0	0	12
JUL 26	B+1	0	0	0	0	12
JUL 27	B+2	0	0	1	1	13
JUL 28	B+3	1	0	5	6	19
JUL 29	B+4	0	0	4	4	23
JUL 30	B+5	9	0	11	20	43
JUL 31	B+6	1 4	0	13	27	70
AUG 1	B+7	15	0	11	26	96
AUG 2	B+8	10	0	9	19	115
AUG 3	B+9	0	0	8	8	123
AUG 4	B+10	0	0	7	7	130
AUG 5	B+11	0	0	6	6	136
AUG 6	B+12	0	0	6	6	142
AUG 7	B+13	0	0	5	5	147

SHIP: USS BARTON (DD-722)

CREW SIZE: 260

GROUP: SURFACE PATROL

MISSION: BARTON departed Pearl Harbor on June 8, 1946, **enroute** to Bikini via Kwajalein Atoll, arriving at Bikini on June 15, 1946. Special oceanographic and radiological equipment was installed on BARTON so that it could be utilized as a survey ship throughout the operation.

SHOT DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIHLD	TYPE DETONATION
	ABLE BAKER	I July 46 <b>(0900)</b> 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.519 REM

Date unit departed Bikini: August 10, 1946 (BAKER + 16)

Ship contamination factor when departing Bikini: 13 (this value is for use with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS BARTON

TIME	PLACE	REMARKS
011030	2591M	ENTERED BIKINI LAGOON AFTER SHOT ABLE
011058		UNDERWAY IN LAGOON
011125		CHANGED COURSE TO (191) DEG.
011159	2591M	DEPARTED BIKINI LAGOON
020547	2591M	REENTER BIKINI LAGOON
020550	2494W	PASSED BUOY #5 TO STARBOARD
020601	2495N	ANCHORED IN BERTH 367 "A"
020725	2495N	UNDERWAY FROM EERTH 367 "A"
020744	2598E	ANCHORED IN BERIH 251 "A" "S"
042400	2598E	ANCHORED AS BEFORE
250940		ENTER BIKINI LAGOON
250952		PASSED <b>BUOY #4 TO PORT</b>
250958	2595K	CHANGED COURSE TO 255 DEG.
251030		CHANGED COURSE TO 270 DEG.
251112		DEPARTED BIKINI LAGOON
260140		RE-ENTERED BIKINI LAGOON
260211	2592W	LYING TO IN GRID SQUARE 2592W FOR RADIOLOGICAL SOUNDINGS
260232	2592W	UNDERWAY TO GRID SQUARE 2596W
260348	2596W	ANCHORED IN BERTH 342
281550	2596W	UNDERWAY
281607	25940	PASSED BUOY #4 TO STARBOARD
281615	2591M	DEF'ARTED BIKINI LAGOON TO BEGIN DOWNWIND RADIOLOGICAL
		SOUNDING TRACK
291125	2591M	REENTER BIKINI LAGOON
291135		ANCHORED
291421		UNDERWAY TO SHIFT ANCHORAGE
291433		ANCHORED
301431		UNDERWAY TO REFUEL
301802		ANCHORED IN BERTH 127"W"
310830		UNDERWAY TO SHIFT BERTHS
310 <b>8</b> 35 310906		ANCHORED IN BERTH 147 "W"
310708		UNDERWAY TO SHIFT EERTHS ANMCHORED ION BERTH 147 "E"
331440		UNDERWAY TO SHIFT BERTHS
		NACHORED IN BRTH "E"
360740		UNDERWAY
360746		DEPARTED BIKINI LAGOON
361705		RE-ENTERED BIKINI LAGOON
361715		ANCHORED IN BERTH "E"
380852		UNDERWAY TO SHIFT BERTHS
380918		ANCHORED IN BERTH 147"W"
411230		UNDERVAY TO EXIT LAGOON
	2591M	
		ARL HARBOR 10 AUG 1946

USS BARTON CALCULATED FILM BGDGE DOSE (IN MREM)

DATE	TIME	LGGOON WATER	TARGET SHIPS	SHIP CONTGMINGTION	DGILV <b>TOTAL</b>	CUM <b>TOTGL</b>
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5	THRU 24	0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	Ö	0	0
JUL 27	B+2	1b	0	40	56	56
JUL 28	B+3	57	0	72	129	185
JUL 29	B+4	1	0	48	49	234
JUL 30	B+5	b	0	37	43	277
JUL 31	B+6	14	0	30	44	321
GUG 1	B+7	15	0	24	39	360
GUG 2	8+8	9	0	21	30	390
GUG 3	B+9	0	0	18	18	408
AUG 4	B+10	0	0	16		424
GUG 5	B+11	0	0	14	14	438
GUG b	B+12	0	0	13	13	451
GUG 7	B+13	b	0	11	1 7	468
GUG 8	B+14	10	0	10	20	488
GUG 9	B+15	9	0	10	19	507
<b>GUG</b> 10	B+16	3	0	9	12	519

SHIP: USS BAYFIELD (APA-33)

CREW SIZE: 428

GROUP: TRANSPORT

MISSION: BAYFIELD, a member of the Transport Unit, arrived at Bikini on June I, 1946 to prepare for the operation. At CROSSROADS one of the primary duties of the several personnel transports such as **BAYFIELD** was to house the crews of the target ships during **and** following the two detonations. The crews of the target ships that were subsequently sunk or rendered uninhabitable by Tests ABLE and BAKER continued living aboard the transport ships well after the detonations.

SHOT DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIHLD)	TYPE DETONATION
		l July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.063 REM

Date unit departed Bikini: August 3, 1946 (BAKER + 9)

Ship contamination factor when departing Bikini: 9 (this value is for use with the nomograph in Figure B-5)

# FATH REPORT FOR THE USS BAYFIELD

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM A DISTANCE OF 22 MILES
011649	2591M	ENTERED BIKINI LAGOON AFTER SHOT ABLE
011728	2197P	ANCHORED EERTH #298
021331	2197P	UNDERWAY TO SHIFT BERTHS
021434	1900T	ANCHORED IN BERTH #217
042400	1900T	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER FROM 15 MILES DISTANCE BEARING 290
		DEGREES
290616	2591M	ENTERED BIKINI LAGOON AFTER SHOT BAKER
290625	21940	ANCHORED BERTH "A"
300829	21940	UNDERWAY TO SHIFT BERTHS
300954	2098W	ANCHORED IN BERTH #279
331354	2098W	UNDERWAY TO SHIFT BERTHS
331418	1994M	ANCHORED IN BERTH X378
341600	1994M	UNDERWAY
341638	2591N	DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN 3 AUGUST 1946

USS BAYFIELD CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAHINGTION	DAILY <b>TOTAL</b>	curl <b>TOTAL</b>
JUL 1	^.^	0	0		· · · · · · · · · · · · · · · · · · ·	0
	A+0	0	-		•	0
JUL 2	A+1	1	0		1	1
JUL 3	A+2	0	0		0	1
JUL 4	A+3	0	0		0	1
JUL 5 T	HRU 2 4	0	0			1
JUL 25	B+0	0	0	0	0	1
JUL 26	B+1	ij	0	Ö	0	1
JUL 27	B+2	0	0	0	0	1
JUL 28	B+3	0	0	0	0	
JUL 29	B+4	0	0	0	0	1
JUL 30	B+5	3	0	5	8	9
JUL 31	B+6	7	0	9	16	25
AUG 1	B+7	10	0	8	18	4 3
AUG 2	B+8		0	7	1 4	57
AUG 3	B+9	0	o	6	6	63

SHIP: USS BECOR (APD-127)

CREW SIZE: 155

GROUP: TECHNICAL

MISSION: **BEGOR** arrived at Bikini on **June** 5, 1946, and began to prepare for the operation. It was designated the **control** ship for the drone boat operations; drone boats were used to collect water samples from the lagoon after the detonations.

SHOT DATA	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
	ABLE	1 July 46 <b>(0900)</b>	23 KT	Air Burst (+520 feet)
	BAKER	25 July 46 (0835)	23 KT	Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins I July 1946. All days are July (e.g., I Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from **the** various sources which it encountered while at Bikini lagoon. **A** daily **total and** cumulative total are also included up to departure from Bikini. A detailed explanation of **each** source contribution is contained in the basic report, Section 2.

Total calculated **dose** received while at Bikini: 0.114 REM

Date unit departed Bikini: August 3, 1946 (BAKER + 9)

Ship contamination factor when departing Bikini: 18 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS BEGOR

TIME PLACE	REMARKS
010900 <b>2591M</b>	OBSERVED SHOT ABLE FROM A DISTANCE OF APPROXIMATELY 15 MILES TO THE SOUTHEAST
011130 2 <b>59</b> 1M	ENTERED BIKINI LAGOON
011215 2793M	ANCHORED OF ENYU ISLAND
011528 2793M	UNDERWAY
011610 24058	ANCHORED IN BERTH 37
042400 24055	ANCHORED AS <b>BEFORE</b>
251030 2 <b>59</b> 1M	ENTERING BIKINI LAGOON
251054 2793M	ANCHORED OFF ENYU ISLAND
250001 2793M	ANCHORED AS BEFORE
281558 2793M	UNDERWAY TO SHIFT BERTHS
281630 2292H	ANCHORED IN BERTH "J"
301030 22 <b>9</b> 2H	UNDERWAY <b>from Berth</b> "J"
301110 2 <b>405S</b>	ANCHORED IN BERTH 37
331300 22055	U N D E R WAY
331530 2293L	ANCHORED IN BERTH "D"
340740 2293L	UNDERWAY TO REFUEL AT USS CHIKASKIA
340823 2696N	MODRED TO USS CHIKASKIA FOR REFUELING
341220 2696N	UNDERWAY
341221 2591M	DEPARTED BIKINI <b>LAGOON</b> ENROUTE <b>FOR</b> PEARL HARBOR 03 AUG 1946

USS BEGOR CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TIME	LAGOON <b>WATER</b>	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	0	0		U	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 1	THRU 2 4	0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	0	Ō	0	0	0
JUL 29	B+4	0	0	0	0	0
JUL 30	B+5	6	0	11	17	17
JUL 31	B+6	12	0	19	31	48
AUG 1	B+7	14	0	16	30	78
AUG 2	B+8	9	0	14	23	101
AUG 3	B+9		0	1 2	13	114

SHIP: USS BENEVOLENCE (AH-131

CREW SIZE: 673

GROUP: SERVICE (MEDICAL UNIT)

MISSION: BENEVOLENCE served as a hospital ship during CROSSROADS and arrived at

Bikini on May 11, 1946, to prepare for the operation.

SHOT DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIHLD)	TYPE DETONATION
	ABLE	1 July 46 <b>(0900)</b>	23 KT	Air Burst (+520 feet)
	BAKER	25 July 46 <b>(0835)</b>	23 KT	Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which encouraged while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.236 REM

Date unit departed Bikini: August 25, 1946 (BAKER + 31)

Ship contamination factor when departing Bikini: 2 (this value is for use with the nomograph in Figure B-5)

### PATH REPORT FOE THE USS BENEVOLENCE

TIME	PLACE	REMARKS
011756	2592M	ENTERED BIKINI LAGOON
011845	24980	ANCHORED BERTH #268
021441	24980	UNDERWAY FROM #268
021536	2402W	ANCHORED BERTH #145
040001	2402W	AS BEFORE
300630	2592M	ENTEEED BIKINI LAGGON AFTER SHOT BAKER
300751	2402W	ANCHORED BERTH #145
331501	2402W	UNDERWAY TO SHIFT BERTHS
331724	2392D	ANCHORED EERTH "NAN"
380855	2392D	UNDERWAY FORM BERTH NAN
380945	2402W	ANCHORED BERTH #145
450920	2402W	UNDERWAY TO SHIFT BERTHS
454105	2304B	ANCHORED BERTH #34A
561625	2304B	UNDERWAY FROM ANCHORAGE
561653	2592M	DEPARTED BIKINI LAGOON FOR KWAJALEIN 25 AUG 1946

USS BENEVOLENCE CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL i	A+0	0	0		0	0
JUL 2	A+1	1	0		1	1
JUL 3	A+2	0	0		0	1
JUL 4	A+3	0	0		0	1
JUL 5 T	HRU 24	Û	0			1
JUL 25	B+0	0	0	0	0	1
JUL 26	B+1	0	0	0	0	1
JUL 27	B+2	0	0	0	0	1
JUL 28	B+3	0	0	0	0	1
JUL 29	B+4	0	0	0	0	1
JUL 30	B+5	11	0	8	19	20
JUL 31	B+6	16	0	10	26	46
GUG 1	B+7	16	0	8	24	70
GUG 2	B+8	10	0	7	17	87
GUG 3	B+9	0	0	b	6	93
GUG 4	B+10	0	0	5	5	98
GUG 5	B+11	0	0	5	5	103
GUG 6	B+12	0	0	4	4	107
GUG 7	B+13	6	0	4	10	117
GUG 8	B+14	10	0	3	13	130
GUG 9	B+15	9	0	3	1 2	142
<b>GUG</b> 10	B+16	8	0	3	11	153
GUG 11	B+17	7	0	3	10	163
GUG 12	B+18	6	0	3	9	172
GUG 13	B+19	6	0	2	8	180
GUG 14	B+20	5	0	2	7	187
GUG 15	B+21	5	0	2	7	194
GUG 16	B+22	4	0	2	6	2
GUG 17	B+23	4	0	2	6	206
GUG 18	B+24	3	0	2	5	211
GUG 19	B+25	3	0	2	5	216
GUG 20	B+26	3	0	2	5	221
GUG 21	B+27	3	0	1	4	225
AUG 12-	B+28	2	0	1	3	228
GUG 23	B+29	2	0	1	3	231
GUG 24	B+30	2	0	1	3	234
GUG 25	B+31	1	0	1	2	236

SHIP: USS BEXAR (APA-237)

CREW SIZE: 293

GROUP: TRANSPORT

MISSION: BEXAR was a member of the Transport Unit during the operation. At CROSSROADS one of the primary duties of the transport unit was to house the crews of target ships during and following the two detonations. Members of this unit were also used to transport personnel and various equipment **and** supplies.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
			1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-I support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of **the** reconstructed film badge **dose** for this unit from **the** various **sources** which it encountered while at Bikini lagoon. A **daily** total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.231 REM

Date unit departed Bikini: August 23, 1946 (BAKER + 29)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS BEXAR

TINE	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE ON A BEARING OF 055 DEG AND G DISTA WCE OF 22 MILES
011646	2591M	ENTERED <b>BIKINI</b> LAGOON
011739	2097R	ANCHORED IN BERTH 297
021143	2097R	UNDERWAY TO SHIFT BERTHS
021218	2002U	ANCHORED IN BERTH 140
042400	2002U	ANCHORED GS BEFORE
051200	9999A	PASSING MA 5 PLUS 0
051201	9999A	SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARG
		ET SHIP DOSES RECEIVED BY THUS SHIP FOR THE PERIOD 5 J
		ULY THROUGH 24 JULY
161200	9999A	ALONGSIDE YOG-83 FOR 1 HOUR
250835	2591M	OBSERVED SHOT BAKER ON A BEARING OF 300 DEG.
300617	2591M	ENTERED BIKINI LAGOON
300649	20 <b>9</b> 7K	ANCHORED IN BERTH 273
331633	2097K	UNDERWAY TO SHIFT BERTHS
331722	1895Y	ANCHORED IN BERTH 351
340801	1895Y	UNDERWAY TO SHIFT BERTHS
340920	2094E	ANCHORED I N BERTH 355
380802	20 <b>94E</b>	UNDERWAY TO SHIFT BERTHS
380842	20 <b>9</b> 7K	ANCHORED IN BERTH 278
541530	2097K	UNDERWAY TO EXIT LAGOON
541540	2591M	TOOK DEFARTURE OF BIKINI LAGOON ENROUTE TO KWAJALEIN 2 3 AUG 1946

USS BEXAR CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP <b>CONTAMENATION</b>	DAILY TOTAL	curl TOTAL
JUL 1	At 0	0	0		0	0
JUL 2	A+1	4	0		4	4
JUL 3	A+2	1	0		1	5
JUL 4	A+3	0	0		0	5
JUL 5 TH		0	0			5
JUL 25	B+0	0	0	0	0	5
JUL 26	B+1	ij	0	0	0	5
JUL 27	B+2	Ŏ	0	0	Ö	5
JUL 28	B+3	Ú	0	0	Ô	5
JUL 29	B+4	0	0	0	0	5
JUL 30	B+5	2	0	5	7	12
JUL 31	B+6	6	0	12	18	30
AUG 1	B+7	9	0	11	20	<b>5</b> O
AUG 2	B+8	В	0	9	17	67
AUG 3	B+9	ij	0	8	В	75
AUG 4	B+10	(j	0	7	7	82
AUG 5	B+11	0	0	6	6	BB
AUG 6	B+12	0	0	6	b	94
AUG 7	B+13	7	0	5	1 2	106
GUG B	B+14	10	0	5	15	121
AUG 9	8+15	9	0	4	13	134
AUG 10	B+16	В	0	4	12	146
AUG 11	B+17	7	0	4	11	157
GUG 12	B+18	6	0	3	9	166
AUG 13	B+19	6	0	3	9	175
AUG 14	B+20	5	0	3	8	183
AUG 15	B+21	5	0	3	В	191
AUG	B+22	4	0	3	7	198
AUG 17	B+23	4	0	2	6	204
AUG 18	B+24	3	0	2	5	209
AUG 19	B+25	3	0	2	5	214
AUG 20	B+26	3	0	2	5	219
AUG 21	B+27	3	0	2	5	<u> 2</u> 24
AUG 22	B+28	2	0	2	4	228
AUG 23	B+29	1	0	2	3	231

SHIP: USS BLUE RIDGE (AGC-2)

CREW SIZE: 534

**GROUP: TRANSPORT** 

MISSION: USS BLUE RIDGE (AGC-2), a general communications vessel, arrived at Bikini on June 29, 1946, carrying observers to participate in CROSSROADS.

SHOT DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIHLD)	TYPE DETONATION	
		1 July 46 (0900) 2.25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 fe	ot)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.001 REM

Date unit departed Bikini: July 30, 1946 (BAKER + 5)

Ship contamination factor when departing Bikini: 0 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS BLUE RIDGE

TIME	PLACE	REMARKS
010700	2591M	OBSERVED SHOT ABLE FROM A DISTANCE OF 18 MILES TO THE NORTHEAST
011506	2591M	ENTERED EIEINI LAGOON
011559	2500X	GNCHORED BERTH 207
020930	2500X	UNDERWAY TO BERTH 21
021015	2305G	ANCHORED IN BERTH 21
042400	230 <b>5</b> G	ANCHORED AS BEFORE
250835	2591M	DBSERVED SHOT BAKER FORM A DISTANCE OF ABOUT 10 MILES
		TO THE SOUTHEAST
251717	2591M	ENTERED BIKINI LAGOON
251741	2294H	ANCHORED IN BERTH 383
260001	2294H	ANCHORED AS BEFORE
281529	2294H	UNDERWAY TO BERTH 357
281552	2194B	GNCHOEED IN BERTH 357
301030	21948	UNDERWAY TO PEARL HARBOR VIA EONGELAF
301100	2591M	EXITED BIKINI LAGOON 30 JULY 1746 - ENPOUTE TO PEARL H
		ARBOR VIA RONGELAP

USS BLUE RIDGE CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMENATION	DAILY TOTAL	CUM TOTAL
JUL 1	At O	0	0		0	0
JUL 2	A+1	1	0		1	1
JUL 3	A+2	0	0		0	1
JUL 4	A+3	0	0		Ö	1
JUL 5	THRU 24	0	0			1
JUL 25	5 BitO	0	0	0	0	1
JUL 25	B+1	0	0	0	0	1
JUL 27	7 B+2	0	0	0	0	1
JUL 28	B+3	0	0	0	0	1
JUL 2	9 B+4	0	0	0	0	i
JUL 30	) B+5	0	0	0	0	1

SHIP: USS BOTTINEAU (APA-235)

CREW SIZE: 299

GROUP: TRANSPORT

MISSION: BOTTINEAU arrived at Bikini Atoll on June 7, 1946, to prepare for CROSSROADS. One of the primary duties of personnel transports at CROSSROADS, such as BOTTINEAU, was to house the crews of target ships during and following the two de tonations.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION	
		1 July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90	feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.178 REM

Date unit departed Bikini: August 10, 1946 (BAKER + 16)

Ship contamination factor when departing Bikini: 6 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS BOTTINEAU

TIME PLACE	REMAR
010900 2591	1 OBSERVED SHOT ABLE FROM AREA MARMON
011703 25911	1 ENTERED BIKINI LAGOON AFTER SHOT ABLE
011730 21971	A ANCHORED IN BERTH 299
021403 21971	N UNDERWAY TO BERTH 224
021421 21003	( ANCHORED IN BERTH 224
040900 2100	( ANCHORED A S BEFORE
250835 25911	1 OBSERVED S H O T BAKER FROM AREA MARMON
300545 25911	1 ENTERED BIKINILAGOON AFTER SHOT BAKER
300633 2098	ANCHORED IN BERTH 261
331428 2098	! UNDERWAY TO NEW ANCHORAGE
331446 21956	P ANCHORED N BERTH 356
380754 2195	P UNDERWAY TO N E W ANCHORAGE
380814 2098	ANCHORED IN BERTH 2 6 1
410528 2098	H UNDERWAY TO DEPART BIKINI
410510 25911	1 DEPARTED BIKINI LAGOON ENROUTE SAN FRANCISCO VIA PEARL
	HARBOR 10 AUGUST 1946

USS BOTTINEAU CALCULATED FILM BADGE DOSE (IN MREM)

DATE		TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	<b>CUM</b> TOTAL
JUL	1	A+0	0	0		0	0
JUL	2	A+1	1	0		1	1
JUL	3	A+2	0	0		0	1
JUL	4	A+3	0	0		0	1
JUL	5 TH	RU 2 4	0	0			1
JUL	25	B+0	0	0	0	0	1
JUL	26	B+1	0	0	0	0	1
JUL	27	B+2	0	0	0	0	1
JUL	28	B+3	0	0	0	0	1
JUL	29	B+4	0	0	0	0	1
JUL	30	B+5	4	0	8	12	13
JUL	31	B+6	7	0	13		33
AUG	1	B+7	10	0	11	21	54
AUG	2	B+8	12	0	9	21	75
AUG	3	B+9	16	0	8	24	99
AUG	4	B+10	14	0	7	21	120
AUG	5	B+11	0	0	6	6	126
AUG	6	B+12	0	0	b	6	132
AUG	7	B+13	7	0	5	12	144
AUG	8	B+14	10	0	5	15	159
AUG	9	B+15	9	0	4	13	172
AUG	10	B+16	2	0	4	6	178

SHIP: USS BOUNTIFUL (AH-9)

CREW SIZE: 585

GROUP: SERVICE (MEDICAL UNIT)

MISSION: BOUNTIFUL arrived at Bikini on June 18, 1946, and in keeping with the traditional role of a hospital ship, provided medical support for CROSSROADS personnel.

SHOT DATA:	TEST	<u>D A T E</u> ( T	I MYIHED)	TYPE DETONATION	
		1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 f	feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.000 REM

Date unit departed Bikini: July 25, 1946 (BAKER DAY). BOUNTIFUL did not reenter the lagoon after Shot BAKER.

Ship contamination factor when departing Bikini: 0 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS BOUNTIFUL

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM A DISTANCE OF 23 MILES TO THE
		NORTHEAST OF SURFACE ZERO
011857	2596M	ANCHORED NEAR ENYU ISLAND
<b>25</b> 0835	2591M	OBSERVED SHOT BAKER FROM A DISTANCE OF 13 MILES TO THE
		NORTHEAST <b>of Surface Zero</b>
270800	2591 M	DEPARTED BIKINI WATERS ENROUTE PEARL HARBOR BOUNTIF
		<b>UL</b> DID NOT <b>RE-ENTER</b> BIKINI LAGOON AFTER <b>SHOT</b> BAKER

USS BOUNTIFUL CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	ij		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 T		Û	0			0
JUL 25	B+0	0	0		0	0

SHIP: USS BOWDITCH (AGS-4)

CREW SIZE: 296

GROUP: SURVEY

MISSION: **BOWDITCH** arrived in the Marshall Islands on March 5, 1946, and began preparing for the upcoming CROSSROADS event. During the next four months, **BOWDITCH** conducted surveys of Bikini Lagoon in order to prepare anchorage charts for use in the operation. Surveys of Eniwetok and Rongelap Atolls were also performed. The ship's missions also included surveying the probable biological effects of the atmospheric nuclear tests on fish and other wildlife; and conducting an oceanographic survey to determine the character of the ocean currents in and around Bikini Atoll.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		ABLE	1 July 46 (0900)	23 KT	Air Burst (+520 feet)
		BAKER	25 July 46 (0835)	23 KT	Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.143 REM

Date unit departed Bikini: September 27, 1946 (BAKER + 64)

Ship contamination factor when departing Bikini: 1 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS BOWDITCH

TIME PLACE	REMARKS
010900 2591M	OBSERVED SHOT ABLE
011821 2591M	ENTERED BIKINI LAGOON
011 <b>84</b> 7 2596M	ANCHORED IN BERTH 322
031259 2596M	UNDERWAY FROM BERTH 322
031322 2 <b>599</b> K	ANCHORED IN BERTH 230
042400 2599K	ANCHORED AS BEFORE
250835 2591M	ANCHORED AT RONGELAF ATOLL AT TIME OF SHOT BAKER
321345 2591M	ENTERED BIKINI LAGOON
321416 2598E	ANCHORED IN BERTH 251
331505 2598E	UNDERWAY TO SHIFT BERTHS
331 <b>5</b> 33 2393H	ANCHORED BETWEEN BERTHS #385 AND "ITEM" - "A" 104 DEG
	"B" 52 DE6 "c" 22.8 DEG
352400 2393H	ANCHORED AS BEFORE
890800 2591M	DEPARTED BIKINI LAGOON ON 27 SEPTEMBER 1946 - ENROUTE
	KWAJALEIN

# USS BOWDITCH CALCULATED FILM BADGE DOSE (IN MREM)

		WATER	SHIPS	SHIP CONTAMINATION	DAILY TOTAL	TOTAL
JUL 1					0	0
JUL 2	A+1	0	0		0	0
JUL 3		0	0		0	. 0
JUL 4			0		0	0
JUL 5 TH	IRU 24	0	ý			0
JUL 25	B+0	Q	0	0		0
JUL 26	B + 1	0	0	0	0	0
JUL 27	B+2	0	0	0	iji	0
JUL 28	B+3	0	0	0	li	0
JUL 29	B+4	0	0	Q.	0	0
JUL 30	B+5	0	0	0	0	0
JUL 31	B+á	Ō	9	θ	0	0
AUG 1	B+7	5	0	4	<del>9</del>	9
AUG 2	B+8	8	0	9	17	26
AUG 3	B+9		0	3	8	3.4
AUG 4	B+10	0	0	7	,	41
AUG 5	B+11	0	0	6	6	47
AUG 6	B+12	0	0	<u>6</u>	á	<b>5</b> 3
AUG 7	B+13	0	0	5	5	58
AUG 8	B+14	0	0	5	5	63 /3
AUS 9	B+15	0	0	4	4	67 7 ·
AUG 10	B+16	0	0	4	4	71
AUG 11	B+17	0	0	4	4	75 70
AUG 12	B+18	0	0 0	3 3	3 3	78 81
AUG 13	B+19 B+20	0	0	3	3	84
AUG 14 AUG 15	B+21	0	ν 0	ა 3	ა 3	87
AUG 16	B+22	0	0	3 3	3	90
AUG 17	вт22 В+23	0	0	2 2	2	92
AUS 18	B+24	0	0	2	2	7.4 7.4
AUG 19	B+25	0	0	2	2	7 <del>4</del> 9 6
AUG 20	B+25	0	0	2	2	98
AUG 21	B+27	n N	0	2	2	100
AUG 22	B+28	0	Ü	2	2	102
AUG 23	B+29	0	0	2	2	104
AUG 24	B+30	0	0	2	<del>-</del> 2	104
AUG 25	B+31	0	0	2	2 2 2 2 2	108
AUG 26	B+32	0	0	2	2	110
AUG 27	B+33	0	0	2	2	112
AUG 28	B+34	0	0	1	1	113
AUG 29	B+35	0	0	1	1	114
AUG 30	B+36	0	0	1	1	115
AUG 30	8+37	0	0	1	1	115
SEP 1	B+38	0	0	1	1	117
SEP 2	B+39	0	0	1	1	118
SEP 3	B+40	0	0	1	1	119
SEP 4	B+41	0	0	1	1	120
JE: 4	E T T I	¥	v	£	1	120

SEP	5	8+42	0	Ō.	1	1	121
SEF	6	B+43	0	0	1	1	122
SEF	7	B+44	Ģ	0	1	1	123
SEP	8	B+45	0	0	<u>.</u>	1	124
SEP	9	B+46	0	0	1	1	125
SEP	10	B+47	0	0	1	1	126
SEP	11	8+48	0	0	1	1	127
SEP	12	B+49	Û	0	1	1	128
SEP	13	8+50		0	1	1	129
SEP	14	B+51	0	0	1	1	130
SEP	15	B+52	Ü	O .	1	1	131
SEF	16	B+53		0	1	1	132
SEP	17	B+54	Q.	0	1	1	133
SEP	18	8+55	0	0	1	1	134
SEP	19	B+56	0	0	1	1	135
SEF	20	B+57		0	1	i	135
SEP	21	3+58		0	1	1	137
SEP	22	8+59	0	0	1	1	138
SEF	23	B+60	0	i)	1	1	139
SEP	24	B+51	0	0	1	1	140
SEP	25	B+52	0	0	1	1	141
SEP	26	B+63	0	0	1	1	142
SEP	27	B+64	0	0	1	1	143

SHIP: USCG BRAMBLE (WAGL-392)

CREW SIZE: 49

GROUP: SURVEY

MISSION: BRAMBLE was **enroute** from Pearl Harbor to Kwajalein during test ABLE and arrived at Bikini on July 6, 1946. As part of the Survey Unit, its mission included surveying the probable effects of the nuclear tests on fish and other wildlife and conducting an oceanographic survey to determine the character of the ocean currents in and around Bikini Atoll.

SHOT DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIELD)	TYPE DETONATION	
	ABLE BAKER	1 July 46 (0900) 25 July 46 <b>(0835)</b>	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)	)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.302 REM

Date unit departed Bikini: August 24, 1946 (BAKER + 30)

Ship contamination factor when departing Bikini: 4 (this value is for use with the nomograph in Figure B-5)

# PATH REFORT FOR THE USS BRAMBLE

TIME PLACE	REMARKS
<b>0</b> 10900 2591M	UNDERWAY FROM PEARL HARBOR TO KWAJALEIN DURING SHOT A5
	LE
250835 2591M	OBSERVED SHOT BAKER BEARING 250 DEGREES 15 MILES
250836 2591M	DEFARTED VICINITY BIKINI FOR RONGELAP
310700 2591M	ENTERED BIKINI LAGOON AFTER SHOT BAKER
310719 2598B	ANCHORED IN BERTH 250
331545 2598B	UNDERWAY TO CHANGE BERTHS
331605 2693B	ANCHORED NEAR ENYU ISLAND
541320 2693B	RADSAFE FERSONNEL CAME ABOARD FROM HAVEN TO CHECK FFOR
	RADIOACTIVITY-NONE FOUND
551233 2591M	DEPARTED BIKINI <b>LAGOON</b> ENROUTE KWAJALEIN <b>24 AUGUST</b> 194
	6

USS BRAMBLE CALCULATED FILM BADGE DOSE (IN MREM)

DATE		WATER	SHIPS	SHIP CONTAMINATION		TOTAL
JUL 1	A+0	O	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	Û		Ú.	0
JUL 4	A+3	0	0		0	0
JUL 5	THRU 24	0	0			0
JUL 25	8+0	0	0	0	0	0
JUL 26	B+1	Q.	0	0	0	Ü
JUL 27	B+2	9	0	0	Q.	Q.
JUL 28	B+3	0	0	0	0	Ü
JUL 29	B+4	0	0	0	0	0
JUL 30	B+5	0	0	Û	Ò	0
JUL 31	B+6	ó	0	15	21	21
AUG 1	B ÷ 7	10	0	19	29	50
AUG 2	B+8	8	0	17	25	75
AUG 3	8+9	Q	0	14	14	89
AUG 4	B+10	0	0	13	13	102
AUG 5	B+11	0	Q.	11	11	113
AUG &	B+12	0	0	10	10	123
AUG 7	B+13	6	0	9	15	138
AUG 8	B+14	10	0	8	18	156
AUG 9	B+15	9	Ú.	7	16	172
AUG 10	B+16	8	0	7	15	187
AUG 11	B+17	7	0	6	13	200
AUG 12	B+18	6	0	6	12	212
AUG 13	B+19	6	0	6	12	224
AUG 14	B+20	5	0	5	10	234
AUG 15	B+21	5	0	5	10	244
AUG 16	8+22	4	0	5	9	253
AUG 17	B+23	4	0	4	8	261
AUG 18	B+24	3	0	4	7	268
AUG 19	B+25	3	0	4	7	275
AUG 20	B+26	3	0	4	7	282
AUG 21	B+27	3	Ō	4	7	289
AUG 22	8+28	2	0	3	5	294
AUG 23	B+29	2	0	3	5	299
AUG 24	B+30	0	0	3	3	302

SHIP: USS BURLESON (APA-67)

CREW SIZE: 244

GROUP: TECHNICAL

MISSION: BURLESON arrived at Bikini Atoll on June 14, 1946, to prepare for CROSSROADS. The ship was assigned to the Instrumentation Unit which provided some of the laboratory and base facilities required during CROSSROADS. BURLESON's specific mission was to accommodate the test animals which were used during the operation.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION	
	ABLE BAKER	1 July 46 (0900) R 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90	feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.066 REM

Date unit departed Bikini: August 5, 1946 (BAKER + 11)

Ship contamination factor when departing Bikini: 8 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS BURLESON

TIME PLACE	REMARKS
011425 2591M	ENTERED BIKINI LAGOON AFTER ABLE SHOT
011527 2104E	ANCHORED IN BERTH #33A
011550 2104E	UNDERWAY TO <b>SHIFT BERTHS</b>
011618 2503L	ANCHORED IN BERTH #115
021252 2503L	UNDERWAY TO SHIFT BERTHS
021317 2003T	ANCHORED IN BERTH #107
040900 20 <b>0</b> 3T	ANCHORED AS BEFORE
251240 2591M	ENTERED LAGOON AFTER SHOT BAKER
251253 2692M	ANCHORED IN BERTH UNCLE
260001 2692M	ANCHORED AS BEFORE
281531 2692M	UNDERWAY FOR OPEN SEA
290840 2591M	
290905 2294M	ANCHORED IN BERTH #383
300805 2294M	
	ANCHORED BETWEEN BERTHS 113 AND 115
301711 24035	UN WAY
	DEPARTED LAGOON FOR KWAJALEIN
350833 2591M	RETURNED TO BIKINI LAGOON
	Ctiored in Berth Dog
361440 2293M	DEPARTED BIKINI LAGOON 5 AUGUST 1946
361456 2591M	DEFARIED DINIBLE HOUSEN 3 AUGUST 1740

USS BURLESON CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM <b>TOTAL</b>
JUL	A+0	0	0		0	0
JUL 2	A+1	4	0		4	4
JUL 3	A+2	1	0		1	5
JUL 4	A+3	0	0		0	5
<b>JUL</b> 5 T	HRU 24	0	0			5
JUL 25	B+0	0	0	0	0	5
JUL 26	B+1	0	0	0	0	5
JUL 27	B+2	0	0	0	0	5
JUL 28	B+3	0	0	0	0	5
JUL 29	B+4	0	0	0	0	5
JUL 30	B+5	6	0	9	15	20
JUL 31	B+6	0	0	1 <b>1</b>	11	31
AUG 1	B+7	0	0	9	9	40
AUG 2	B+8	0	0	8	8	48
AUG 3	B+9	0	0	7	7	55
AUG 4	B+10	0	0	6	6	61
AUG 5	B+11	0	0	5	5	66

SHIP: USS CEBU (ARG-6)

CREW SIZE: 357

GROUP: SERVICE

MISSION: CEBU arrived at Bikini on May 20 1946 and began to prepare for the operation. As part of the Repair and Service Unit, CEBU performed such duties as salvage, towing and emergency work.

SHOT DATA	A: <u>TEST</u>	<u>D A T E</u> ( T	I MYIELD)	TYPE DETONATION
		1 July 46 (0900) R 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-I support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.229 REM

Date unit departed Bikini: August 23, 1946 (BAKER + 29)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS CEBU

TIME PLACE	REMARKS
010900 2591M	ANCHORED IN KWAJALEIN AT TIME OF SHOT ABLE
020830 2591M	ENTERED BIKINI LAGOON
020913 26980	ANCHORED BERTH #251A
021400 26980	UNDERWAY TO NEW ANCHORAGE
021419 2599D	ANCHORED IN BERTH #207A
042400 2 <b>5</b> 99D	ANCHORED AS BEFORE
250835 2591M	STEAMING IN AREA PACKARD ENROUTE TO RONGELAP AT TIME D
	F SHOT BAKER
301656 2591M	ENTERED BIKINI LAGOON
3017 <b>4</b> 0 <b>2599</b> D	ANCHORED IN BERTH 207A
331504 2599D	UNDERWAY TO BERTH "ROGER"
331601 25941	ANCHORED IN BERTH "ROGER"
352400 2594T	ANCHORED AS BEFORE
541400 25030	UNDERWAY FOR KWAJALEIN
541452 2591M	DEPARTED BIKINI LAGOON ON 23 AUGUST 1946

USS CEBU CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM <b>TOTAL</b>
JUL 1	Αto	0	0		0	0
JUL 2	A+1	0	0		0	О
JUL 3	A+2	0	0		0	O
JUL 4	A+3	0	0		0	0
JUL 5 TH	IRU 2 4	0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	0	0	0	0	0
JUL 29	B+4	0	0	0	0	0
JUL 30	8+5	2	0	2	4	4
JUL 31	B+6	9	0	13	22	26
AUG 1	B+7	11	0	11	22	48
AUG 2	B+8	8	0	9	17	65
AUG 3	B+9	0	0	8	8	73
AUG 4	B+10	0	0	7	7	80
AUG 5	B+11	0	0	b	6	86
AUG <b>b</b>	B+12	0	0	6	6_	92
AUG 7	B+13	7	0	5	1.2	104
AUG 8	B+14	10	0	5	15	119
AUG 9	B+15	9	0	4	13	132
AUG 10	B+16	8	0	4	12	144
AUG 11	B+17	7	0	4	11	155
AUG 12	B+18	6	0	3	9	164
AUG 13	B+19	6	0	3	9	173
AUG 14	B+20	5	0	3	8	181
AUG 15	B+21	5	0	3	8	189
AUG 16	B+22	4	0	3	7	196
AUG 17	B+23	4	0	2	6	202
AUG 18	B+24	3	0	2	5	207
AUG 19	B+25	3	0	2	5	212
AUG 20	B+26	3	0	2	5	217
AUG 21	B+27	3	0	2	5	222
AUG 22	B+28	2	0	2	4	226
AUG 23	B+29	1	0	2	3	229

SHIP: USS CHARLES P. CECIL (DD-835)

CREW SIZE: 287

GROUP: NAVAL AIR

MISSION: CHARLES P. CECIL was assigned to the Navy Air Group for Operation CROSSROADS. The primary duties of the CHARLES P. CECIL were to provide support for drone and photographic operations.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
	ABLE	1 July 46 (0900)		Air Burst (+520 feet)
	BAKER	25 July 46 (0835)	23 KT	Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.000 REM

Date unit departed Bikini: July 25, 1946 (BAKER DAY). CHARLES P. CECIL did not reenter the lagoon after Shot BAKER.

Ship contamination factor when departing Bikini: 0 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS CHARLES F CECIL

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM A DISTANCE OF 42 MILES
030620	2591M	ENTERED BIKINI LAGOON
030703	2696N	MOORED TO CHICKASKIA IN BERTH 324
030854	2696N	UNDERWAY TO BERTH 269
030945	2598M	ANCHORED IN BERTH 269
031616	2598M	UNDERWAY 10 KWAJPLEIN
031645	2591M	EXITED BIKINI LAGOON
250835	2591M	OPERATING IN VICINITY OF POINT TARE - APPROXIMATELY 40
		MILES TO THE SOUTHEAST AT TIME OF SHOT BAKER
281744	2591M	DEPARTED FROM KWAJALEIN ENROUTE PEARL HARBOR ON 28 JUL
		Y 1946 - NEVER ENTERED BIKINI LAGOON AFTER SHOT BAKER

USS CHARLES P CECIL CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	Ō		Ü	Ō
JUL 3	A+2	0	Ö		0	0
JUL 4	A+3	0	Ŏ		0	0
<b>JUL</b> 5 1	THRU 24	0	0			ij
JUL 25	B+0	0	Ú	Ô	0	0

SHIP: USS CHICKASAW (ATF-83)

CREW SIZE: 78

GROUP: SALVAGE

MISSION: CHICKASAW arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As a member of the Salvage Unit, CHICKASAW's main duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.400 REM

Date unit departed Bikini: August 26, 1946 (BAKER + 32)

Ship contamination factor when departing Bikini: 5 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS CHICKASAW

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030953
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301848 2591M	EXITED BIKINI LAGOON
320803 2 <b>591M</b>	RE-ENTERED BIKINI LAGOON
320929 2794V	ANCHORED BERTH "H"
331508 2794V	UNDERWAY TO SHIFT BERITHS
331728 1993M	ANCHORED 1400 YARDS SOUTH OF BERTH 378
352400 1993M	ANCHORED AS BEFORE
391300 2105N	ALONGSIDE LST-545
391421 2105N	LEAVING LST-545
400810 2101B	ALONGSIDE BRULE
401014 2101B	LEAVING BRULE
501010 2200X	UNDERWAY TOWING USS BRACKEN
501135 2591M	<b>DEPARTED</b> BIKINI LAGOON
530950 2591M	RE-ENTERED BIKINI LAGOON
541059 2301A	UNDERWAY WITH USS SALT LAKE CITY IN TOW
541252 2591M	<b>DEPARTED</b> BIKINI LAGOON
570930 2591M	RE-ENTERED BIKINI LAGOON
571257 2591M	DEPARTED BIKINI LAGOON ON 26 AUG 1946 - ENROUTE KWAJAL
	EIN WITH USS CATRON IN TOW

USS CHICKASAW CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	At O	0	0		0	0
JUL 2	A+1	2	0		2	2
JUL 3	A+2	0	0		0	2
JUL 4	A+3	0	0		0	2 2 <b>2</b> <b>7</b>
JUL 5	THRU 24	0	1			3
JUL 25	5 B+0	5	0	7	12	15
JUL 28		0	0	2	2	17
JUL 27		0	0	2	2	19
JUL 28	B+3	4	0	25	29	48
JUL 29		1	0	21	22	70
JUL 30	D B+5	0	0	18	18	88
JUL 31		0	0	15	15	103
AUG 1	B+7	0	0	13	13	116
AUG 2	B+8	0	Ō	13	13	129
AUG 3	B+9	0	0	11	11	140
AUG 4	B+10	0	0	10	10	150
AUG 5	B+11	1	0	11	12	162
AUG 6	B+12	0	0	10	10	172
AUG 7	B+13	5	0	10	15	187
AUG 8	B+14	10	4	9	23	210
AUG 9		9	40	8	57	267
AUG 10		8	0	8	16	283
AUG 11		7	0	7	14	297
AUG 12		6	0	7	13	310
AUG 13		6	0	6	12	300
AUG 14		5	0	6	11	333
AUG 1		5	0	5	10	343
AUG 1		4	0	5	9	350
AUG 17		4	0	5	9	361
AUG 18		3	0	4	7	368
AUG 19		1	0	4	5	
AUG 20		0	0	4	4	377
AUG 21		0	0	4	4	381
AUG 22		1	0	4	5	386
AUG 23		1	0	4	5	391
AUG 24		0	0	3	3	394
AUG 25		0	0	3	3	397
AUG 26	6 B+32	0	0	3	3	400

SHIP: USS CHIKASKIA (AO-54)

CREW SIZE: 176

GROUP: SERVICE

MISSION: CHIKASKIA arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As part of the Repair and Service Unit, CHIKASKIA provided provisions or logistical support (fuel and water) to the other support ships participating in the operation.

SHOT	DATA:	<u>TEST</u>	D	A	T I	E <u>YIELD</u> TIN	ME)TYPE	DETONATION
				July 46 <b>(09</b> 0 July 46 (08)				t (+520 feet) Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.198 REM

Date unit departed Bikini: August 23, 1946 (BAKER + 29)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS CHIKASKIA

TIME	PLACE	REMARKS
010900	2591M	DESERVED SHOT ABLE
011802		ENTERED BIKINI LGGOON
011835	2696N	ANCHORED IN BERTH #324
042400	2696N	ANCHORED AS BEFORE
051200	9999A	PASSING SUMMARY 5 PLUS 2
051201	9999A	SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TORG
		ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
		ULY <b>THROUGH 24</b> JULY
060848	1597U	ALONGSIDE <b>SGRATOGA</b>
061340		LEGVING SARATOGA
100740		GLONGSIDE PENNSYLVANIA
101155		LEAVING PENNSYLVANIA
101635		ALONGS I <b>de nevgda</b>
110752		LEAVING NE DA
140742		ALONGSIDE ARKANSAS
141050		LEAVING ARKANSAS
250835		OBSERVED SHOT BAKER WHILE ANCHORED GT KWAJALEIN ATOLL
301709		ENTERED BIKINI LAGOON
301735		ANCHORED IN BERTH #250
330655 330719		UNDERVAY FOR USS ENORGE ALONGSIDE USS ENORGE IN EERITH #305
331629		UNDERWAY FROM USS ENORGE
331708		EXITED BIKINI LAGOON TO DISLHGRGE CONTAMINATED OIL
331832		ANCHORED SOUTHWEST OF BUOY #1
340642		UNDERVAY FOR USS ENORGE - RE-ENTERING BIKINI LAGOON
340708		ALONGSIDE USS ENORGE IN BERTH "DEDE"
341333		UNDERWAY FROM USS ENORGE
341356		DEFGRIED BIKINI LGGOON FOR KWAJALEIN
450607	2591M	RE-ENTERED BIKINI LAGOON
511132	2400R	LODR J W DROWN GND DR. E F KINNEY COMPLETED TEST AND R
		EPORTED ENG I NEERING SPACES SAFE FOR PERSONNEL
541706	2591M	DEFGRIED BIKINI LAGOON ON 23 AUGUST 1946 - ENROUTE PEA
		RL HARBOR VIA KWAJALEIN

USS CHIKASKIA CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIFS	SHIF CONTAMENATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 T	<b>HRU 24</b>	0	1			1
JUL 25	B+0	0	0	0	0	1
JUL 26	B+1	0	0	0	0	1
JUL 27	B+2	0	0	0	0	1
JUL 28	B+3	0	0	0	0	1
JUL 29	B+4	0	0	0	0	1
JUL 30	8+5	1	0	2	3	4
<b>JUL</b> 31	B+6	7	0	15	22	26
AUG 1	B+7	10	0	13	23	49
AUG 2	B+8	8	0	11	19	68
AUG 3	B+9	4	0	10	14	82
AUG 4	B+10	0	0	9	9	91
AUG 5	B+11	0	0	8	8	99
AUG <b>b</b>	B+12	0	0	7	7	106
AUG 7	B+13	0	0	b	b	112
AUG 8	B+14	0	0	b	b	118
AUG 9	B+15	0	0	5	5	123
AUG 10	B+16	0	0	5	5	128
AUG 11	B+17	0	0	4	4	132
AUG 12	8+18	0	0	4	4	136
AUG 13	B+19	0	0	4	4	140
AUG 14	B+20	4	0	3	7	147
AUG 15	B+21	5	0	3	8	155
AUG <i>i b</i>	B+22	4	0	3	7	162
AUG 17	B+23	4	0	3	7	169
AUG 18	B+24	3	0	3	b	175
AUG 19	B+25	3	0	3	b	181
AUG 20	B+26	3	0	2	5	186
AUG 21	B+27	3	0	2	5	191
AUG 22	B+28	2	0	2	4	195
AUG 23	B+29	1	0	2	3	198

SHIP: USS CHOWANOC (ATF-100)

CREW SIZE: 88

GROUP: SERVICE

MISSION: CHOWANOC arrived at Bikini Atoll on May 28, 1946 and began to prepare for the operation. The ship was assigned to the Repair and Service Unit, and its duties included towing, salvage work and offloading supplies and equipment.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
			l July 46 (0900) 25 July 46 <b>(0835)</b>	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.401 REM

Date unit departed Bikini: August 28, 1946 (BAKER + 34)

Ship contamination factor when departing Bikini: 4 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS CHOWANOC

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320912 2304B UNDERWAY
              ANCHORED OFF CHIEFRETE ISLAND - R.TAN. CHIEFRETE IS. 2
321030 9594T
              53 DEG L.TAN. CHIEERETE 222 DEG R. TAN. ROKOJ ISLAND
              167 DEG
              UNDERWAY
321234 9594T
321406 9513C ANCHORED OFF NAMU ISLAND - R.TAN. NAMU 51.5 DEG R.TAN
              BOKONEJLÉN 280 DEG
321415 95130
             UNDERWAY FOR USS HAVEN
321730 2304B STAND BY USS HAVEN
321752 2304B UNDERWAY
321809 2599J ANCHORED BERTH 207
331109 2599J UNDERWAY FOR USS HAVEN
331145 2304B LYING TO OFF USS HAVEN
331217 2304B UNDERWAY TO NAMU ISLAND
331343 9514V ANCHORED OFF NAMU ISLAND - L.TAN. NAMU 331 DEG. R.TAN.
              57.75 DEG
340703 9514V UNDERWAY TO YURO ISLAND
340716 9711M ESTIMATED POSITION
340800 0711M ESTIMATED POSITION (STRAIGHT LINE NOT POSSIBLE)
              ANCHORED OFF YURO ISLAND - RIGHT TREE YURO 347.5 DEG
340811 0813P
              LEFT TREE YURO 302 DEG RIGHT TREE UDRIKKU ISLAND 47.5
341225 0813P
              DERW4Y
341336 2294M LYING TO OFF USS HAVEN
341346 2294M UNDERWAY TO USS FULTON
341415 2692F LYING TO OFF USS FULTON
341443 2692F UNDERWAY
341606 2395H ANCHORED I N
352400 2395H ANCHORED AS BEFORE
450948 2002E ALONGSIDE WILSON2
451235 2002E LEAVING
                       WILSON2
451247 2102H ALONGSIDE TRIPPE2
451414 2102H L
                 ING
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451430 2102X ALONGSIDE MAYRANT2
451610 2102X LEAVING
                             T2
461424 2201Y
                       NEW YO 2
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461533 2201Y LEAVING
                       NEW YORK 2
521846 2591M DEPARTED BIKINI LAGOON WITH USS PENNSYLVANIA IN TOW
560622 2591M RE-ENTERED BIKINI LAGOON
561340 2591M DEPARTED BIKINI LAGOON WITH CARTERET IN TOW
590909 2591M RE-ENTERED BIKINI LAGOON
571815 2591M DEPARTED BIK INILAGOON WITH USS BRULE IN TOW ON 28 AUG
              US? 1946 -- ENROUTE KWAJALEIN
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USS CHOWANOC CALCULGTED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMENATION	DAILY TOTAL	CUM TDFGL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 TH	IRU <b>24</b>	0	0			0
JUL 25	B+0	Ō	0	0	0	0
JUL 26	B+1	0	0	Ö	Ô	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	0	0	0	0	0
JUL 29	B+4	0	0	0	0	Û
JUL 30	Bt5	0	0	0	0	0
JUL 31	B+6	7	0	15	22	22
AUG 1	B+7	9	0	21	30	52
AUG 2	B+8	7	0	18	25	77
AUG 3	B+9	5	0	16	21	98
AUG 4	B+10	14	0	14	28	126
AUG 5	B+11	13	0	12	25	151
AUG △	B+12	6	0	11	17	168
AUG 7	B+13	6	0	1 0	16	184
AUG 8	Et14	10	0	9	19	
AUG 9	B+15	9	0	8	17	220
AUG 10	B+16	8	0	8	lb	236
AUG 11	Et17	7	0	7	14	250
AUG 12	B+18	6	0	7	13	263
AUG 13	Bt19	Ь	0	b	1 2	275
AUG 14	B+20	5	55	6	66	341
AUG 15	Bt21	5	1	5	11	<b>35</b> 2
AUG 16	B+22	4	0	5	9	361
AUG 17	B+23	1	0	5	6	367
AUG 18	B+24	2	0	4	6	373
AUG 19	B+25	3	0	4	7	380
AUG 20	B+26	3	0	4	7	387
AUG 21	B+27	2	0	4	6	393
AUG 22	B+28	0	0	4	4	397
AUG 23	Bt29	0	0	4	4	401

SHIP: USS CLAMP (ARS-33)

CREW SIZE: 88

GROUP: SALVAGE

MISSION: CLAMP arrived at Bikini on March 15, 1946, and was one of the first Joint Task Force ONE (Command designation given CROSSROADS units) ships to arrive at the Pacific Proving Grounds Test Site. In keeping with its capabilities as a submarine rescue ship, CLAMP became involved from mid-March through June 1946 in various towing, diving, demolition, and underwater photography duties as well as a number of other tasks in preparation for the upcoming tests.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION	
		1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 f	eet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.651 REM

Date unit departed Bikini: August 26, 1946 (BAKER + 32)

Ship contamination factor when departing Bikini: 5 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS CLAMP

TIME PLACE	REMARKS
010900 2591M	OBSERVED SHOT BAKER FROM A POSITION 24 MILES TO THE EAST OF SURFACE ZERO
011226 2591M	ENTERED BIKINI LAGOON
011443 22008	ALONGS IDE CATRON
011450 22005	LEAVING CATRON
011510 22005	ALONGSIDE CATRON
	LEAVING CATRON
011632 22005	UNDERWAY FOR USS NEW YORK FROM LAYING TO USS SARATOGA
011646 2201Y	ALONGSIDE NEW YORK
011750 2201Y	LEAVING NEW YORK
011905 2793A	ANCHORED IN BERTH "ITEM"
012358 2793A	PASSING SUMMARY 1
012359 2793A	SUMMARY IS A FICTITIOUS SHIP USED TO RECORD THE DOSE R
	ECEIVED BY THE USS CLAMP WHILE ALONGSIDE TARGET SHIPS
	AFTER SHOT ABLE
020710 2793A	UNDERWAY
020817 22005	ALONGSIDE CATRON
020820 2200S	INITIAL BOARD <b>team no. 2 boarded</b>
0208 <b>49</b> 2200 <b>S</b>	BOARDING TEAM RETURNED
020850 22008	LEAVING CATRON
020859 2200I	ALONGSIDE BRISCOE
020901 2200I	BOARDING TEAM BOARDS USS BRISCOE
020947 2200I	BOARDING PARTY RETURNS
020 <b>948</b> 22001	LEAVING BRISCOE
021008 2301A	ALONGSIDE CARTERET
	BOARDING TEAM BOARDS VESSEL
021050 2301A	BOARDING <b>TEAM RETURNS</b>
021051 2301A	LEAVING CARTERET
021109 2201W	ALONGSIDE BANNER
021115 2201W	BOARDING TEAM BOARDS VESSEL
021150 2201W	BOARDING TEAM RETURNS ABOARD
021157 2201W	LEAVING BANNER
021210 2201M	
	BOARDING TEAM BOARDED VESSEL
021320 2201M 021328 2201M	BOARDING <b>team leaves vessel</b> <b>leaving</b> ralph talbot
021414 2201V	ALONGSIDE NAGATO BOARDING TEAM BOARDS VESSEL
021415 2201V	
021525 2201V	BOARDING TEAM RETURNS
021527 2201V	LEAVING NAGATO
021539 2201P 021541 2201P	ALONGSIDE NEVADA BOARDING TEAM BOARDS VESSEL
021541 2201P 021647 2201P	BOARDING TEAM RETURNS
021647 2201P 021648 2201P	BUARDING TEAM RETURNS LEAVING NEVADA
021725 2103H	
021725 2103H 021729 2103H	
071/74 7103H	UNDERWAL

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### " 34 DEG 281528 2092D UNDERWAY TO ANCHORAGE 281620 2092M ANCHORED 1450 YARDS SOUTH OF BERTH 380 300730 2092M UNDERWAY TO VICINITY OF USS PALMYRA 300755 20**9**30 IN VICINITY OF USS PALMYRA 300B00 2093C PEOCEEDING TO USS KENNETH WHITING 300817 20945 NEAR USS KENNETH WHITING 300822 24945 PROCEEDING TO TARGET ARRAY 300917 2300X MODRED TO INSTRUMENT TANK (POSITION ESTIMATED) 301017 2300X UNDERWAY TO VICINITY OF USS KENNETH WHITING 301102 2304N IN VICINITY OF USS KENNETH WHITING 301105 2304N PROCEEDING TO USS FALMYRA 301137 20930 NEAR USS FALMYRA 301141 20930 PEOCEEDING TO USS CHICKASAW 301156 1993M MODRED TO USS CHICKASAW 301321 1993M UNDERWAY TO USS CONYNGHAM 301352 1802D COMMENCED SPRAY ING USS CONYNGHAM WITH FOAM PEOCEEDING TO USS MUGFORD 301523 1802D 301543 2003V OPERATIONGS ON USS MUGFORD COMPLETED - PROCEEDING TO U SS BEGOR 301613 24059 MODRED TO USS BEGOR 301654 24055 UNDERWAY TO ANCHORAGE 301728 2096V ANCHORED IN BERTH BAKER 311048 2096V UNDERWAY TO USS SALT LAKE CITY 311116 2301A COMMENCED WASHDOWN OF USS SALT LAKE C!TY 311235 2301A PROCEEDING TO ANCHORAGE 311241 2203R ANCHORED - "B" 1 3 3 DEG "D" 62 DEG 311422 2203R UNDERWAY TO USS TOMIGBEE 311517 2695R MOORED TO USS TOMIGBEE 311644 2695R UNDERWAY TO ANCHORAGE 311656 2096V ANCHORED IN BERTH BAKER 311715 2096V UNDERWAY TO USS SYLVANIA 311800 2304E IN VICINITY OF USS SYLVANIA; PROCEEDING TO ANCHORAGE 311843 2096V ANCHORED IN BERTH BAKER 320714 2096V UNDERWAY TO VICINITY OF USS WHARTON 320740 2402W LAYING TO IN VICINITY OF USS WHARTON 320843 2402W UNDERWAY TO USS PENSACOLA 320911 21010 COMMENCED WASHDOWN OF USS PENSACOLA 321002 21010 UNDERWAY TO USS WAINWRIGHT 321010 1903W NEAR USS WAINWRIGHT 321012 1903W PROCEEDING TO PRINZ EUGEN 321020 2002L LAYING OFF PRINZ EUGEN 321031 2002L PROCEEDING TO USS CARTERET 321053 18000 ALONGSIDE CARTERETI 321106 18000 **LEAVING** CARTERET1 321123 21010 COMMENCED WASHDOWN OF USS PENSACOLA 321145 21010 PROCEEDING TO USS WHARTON 321235 2402W MOORED TO USS PRESERVER 321330 2402W PROCEEDING TO USS CHICKASAW

321359 2794V MOORED TO USS CHICKASAW

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330740 2794V PROCEEDING TO VICINITY OF USS WHARTON
330807 2402W
             LYING TO OFF USS WHARTON
330812 2402W
             PROCEEDING TO USS CATRON
330826 2200S
            FOAMING USS CGTRGN
331108 2200S PROCEEDING TO LCT-1013
331120 1701E FOAMING LCT-1013
331150 1701E
             UNDERWAY TO USS RECLAIMER
331311 2301A MOORED TO USS RECLAIMER
331341 2301A UNDEEWGY
331405 2504V SPRAYING LET-1113
331440 2504V
              BOARDING TEAM ON LCT-1113
331447 2504V BOARDING TEAM BACK
331512 1701E SPRAYING LCT-1013
331625 1701E BOARDING TEAM ON LCT-1013
331630 1701E BOARDING TEAM EGCK
331631 1701E PROCEEDING TO VICINITY OF USS WHARTON
331656 2394A NEAR USS WHARTON
331658 2394A PROCEEDING TO USS BEGOR
331720 24058 MOORED TO USS BEGOR
331800 2405S PROCEED ING TO GNCHGRGGE
331815 2092M GNCHGRED 1450 YARDS SOUTH OF BERTH 380
340745 2092M UNDERWAY TO VICINITY OF USS WHARTON
340804 2394A LYING TO OFF USS WHARTON
              PROCEEDING TO USS BUTTE
340806 2394A
340835 1900B
              GLGNGS I DE BUTTE
340852 1900B LEAVING
                        BUTTE
340925 20006 LYING TO OFF USS RALPH TALBOT
341058 2000G PROCEEDING TO USS BUTTE
341104 1900B ALONGSIDE BUTTE
341128 1900B LEAVING
                        BUTTE
              PROCEEDING TO USS SYLVANIA
341252 2394A
              STGNDING NEAR USS SYLVANIA
341308 2392D
              UNDERWAY TO USS CHICKASAW
341422 2392D
              MOORED TO USS CHICKASGW
341446 1993M
              MOORED AS EEFGEE
352400 1993M
              ALONGSIDE HUGHES
441600 2893M
              MOORED 70 USS HUGHES AND UNDERWAY TOWING HUGHES TO ION
441620 2893M
              ISLAND
441653 2798P
              LEAVING
                        HUGHES
501050 21010
              ALONGSIDE PENSACOLA
501140 21010
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520740 2301A ALONGSIDE SALT LAKE CITY2
520832 2301A LEGVING
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520847 21010 ALONGSIDE PENSACOLA
520914 21010 LEGVING
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530752 21010
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561635 2101I
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570918 22028 ALONGSIDE LST-52
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USS CLAMF CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	<b>CUM</b> Total
JUL 1	A+0	8	1		9	9
JUL 2	A+1	4	13		17	26
JUL 3	A+2	0	!j		0	ņ
JUL 4	A+3	0	0		0	26
JUL 5 T	HRU 24	0	7			33
JUL 25	B+0	38	48	55	141	174
JUL <b>26</b>	B+1	0	0	23	23	197
JUL <b>27</b>	B+2	3	0	20	23	220
JUL 28	B+3	0	0	18	18	238
JUL 29	B + 4	0	0	12	12	250
1AF 20	B+5	5	0	20	25	275
JUL 31	B+6	8	0	25	33	308
AUG 1	B+7	7	Û	21	28	336
AUG 2	8+8	6	0	18	24	360
AUG 3	B+9	2	1	16	19	379
AUG 4	B+10	0	0	14	14	393
AUG 5	B+11	0	0	12	12	405
AUG 6	B+12	2	0	11	13	418
AUG 7	B+13	7	0	10	17	435
AUG 8	B+14	10	0	9	1?	454
AUG 9	B+15	9	0	8	17	471
AUG 10	B+16	8	0	8	16	487
AUG 11	B+17	7	0	7	14	501
AUG 12	B+18	6	Û	7	13	514
AUG 13	B+19	2	5	6	13	527
AUG 14	B+20	0	0	6	6	533
AUG 15	B+21	0	0	5	5	538
AUG 16	B+22	1	0	5	6	544
AUG 17	B+23	4	0	5	9	553
AUG 18	B+24	3	0	4	7	560
AUG 19	B+25	3	9	4	16	576
AUG 20	B+26	3	0	4	7	583
AUG 21	B+27	3	6	4	13	596
AUG 22	B+28	1	10	4	15	611
AUG 23	B+29	0	0	4	4	615
AUG 24	B+30	0	0	3 7 7	3	618
AUG 25	B+31	0	6	ý	9	627
RUG 26	B+32	0	21	S	24	651

SHIP: USS COASTERS HARBOR (AG-74)

CREW SIZE: 195

GROUP: SERVICE

MISSION: COASTERS HARBOR, arrived at Bikini prior to June 1, 1946, to assist in preparations for the operation. During Operation CROSSROADS, COASTERS HARBOR served in the repair and service task unit.

SHOT DATA:	<b>TEST</b>	DATE (TIME)	YIELD	TYPE DETONATION
		July 46 (0900) 25 July 46 <b>(0835)</b>		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.195 REM

Date unit departed Bikini: August 15, 1946 (BAKER + 21)

Ship contamination factor when departing Bikini: 4 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS COASTERS HARBOR

TIME	PLACE	REMARKS
010900	2591M	
		ORTHWEST <b>OF</b> GZ
011650	2591M	ENTERED BIKINI <b>LAGOON</b>
011840	2398M	ANCHORED BERTH #285
021221	239BM	UNDERWAY TO <b>Change Berths</b>
021313	2103W	ANCHORED BERTH #108
042400	2103W	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER FROM 17 MILES EAST OF 67
301448	2591M	ENTERED BIKIN I LAGOON
301557	2205A	ANCHORED BERTH #9
32072 <b>5</b>	2205A	UNDERWAY FOR SEA TO PUMP CONTAMINATED FUEL OIL OVER TH
		E SIDE
320838	2591M	DEPARTED BIKINI LAGOON
321354	2591M	RE-ENTERED BIKINI LAGOON AFTER PUMPING CONTAMINATED 01
		L OVERBOARD
321435	2598R	ANCHORED BERTH #269
331432	2598R	UNDERWAY TO CHANGE BERTHS
331510	23 <b>9</b> 2V	ANCHORED BERTH "NAN"
352400	23 <b>92V</b>	ANCHORED AS BEFORE
451350	2591M	RADIOLOGICAL SAFETY SECTION OF JTF-1 REPORTED ABOARD T
		0 INSPECT SHIP FOR RADIOACTIVITY
451500	2591M	SHIP DECLARED FREE OF RADIOACTIVITY BY RADIOLOGICAL SA
		FETY SECT ION
461319	2591M	UNDERWAY FROM BERTH #189-ENROUTE KWAJALEIN
461417	2591M	EXITED BIKINI LAGOON ON 15 AUGUST 1946

USS COASTERS HARBOR CALCULATED FILM BADGE DOSE (IN MREM!

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY TOTAL	<b>CUM</b> TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	5	0		5	5
JUL 3	A+2	1	0		1	6
JUL 4	A+3	0	0		0	6
JUL 5 TI	IRU 2 4	0	Û			6
JUL 25	B+0	0	0	0	0	6
JUL 26	B+1	0	0	0	0	6
JUL 27	B+2	0	0	0	0	6
JUL 28	B+3	0	0	0	0	6
JUL 29	B+4	0	0	0	0	6
JUL 30	B+5	5	0	5	10	16
JUL 31	B+6	14	0	13	2 7	43
AUG 1	B+7	9	0	11	20	63
AUG 2	B+8	7	0	9	16	79
AUG 3	B+9	0	0	8	8	87
AUG 4	B+10	0	0	7	7	94
AUG 5	B+11	0	0	6	6	100
AUG 6	B+12	0	0	6	6	106
AUG 7	B+13	7	0	5	1 2	118
AUG 8	B+14	9	0	5	14	132
AUG 9	B+15	8	0	4	12	144
AUG 10	B+16	7	0	4	11	155
AUG 11	B+17	6	0	4	10	165
AUG 12	B+18	6	0	3	9	174
AUG 13	B+19	5	0	3	8	182
AUG 14	B+20	5	0	3	8	190
AUG 15	B+21	2	0	3	5	195

SHIP: USS CONSERVER (ARS-39)

CREW SIZE: 86

GROUP: SALVAGE

MISSION: CONSERVER arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As a member of the Salvage Unit, CONSERVER's main duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		l July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.919 REM

Date unit departed Bikini: September 5, 1946 (BAKER+42)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS CONSERVER

TIME PLACE	REMARKS
(:107 2591M	NOBSERVED SHOT ABLE FROM A DISTANCE OF APPROXIMATELY 2
010932 2591M	2 MILES ENTERED BIKINI LAGOON
011338 2795H	ANCHORED OFF ENYU ISLAND - BEARINGS "B"20 DEG LEFT TA
011000 1/7011	NGENT ENYU ISLAND 124 DEG
020706 2795H	UNDERWAY TO TARGET ARRAY
020725 2302E	LYING TO NORTHEAST OF ARRAY
021015 2102M	ALONGSIDE RHIND
021115 2102M	LEAVING RHIND
021116 2002E	ALONGSIDE STACK
021143 2002E	LEAVING <b>STACK</b>
021300 2001R	ALONGSIDE DAVISON
021327 2001R	LEAVING DAVISON
021328 2002V	ALONGSIDE PRINZ EUGEN
021454 2002V	LEAVING PRINZ EUGEN
021601 2101E	ALONGSIDE ARKANSAS
021640 2101E	LEAVING ARKANSAS
021655 2103H	RADIOLOGICAL BOARDING TEAM LEFT SHIP; PROCEEDING TO AN
02 1740 2695F	CHDAAGE ANCHORED IN BERTH B
022358 2695F	PASSING SUMMARY 14
022 <b>3</b> 59 2695F	SUMMARY IS A FICTITIOUS SHIP USED TO RECORD THE DOSE R
922007 20701	ECEIVED BY CONSERVER WHILE ALONGS IDE TARGET SHIPS AFTE
	R SHOT ABLE
040815 2695F	UNDERWAY TO USS SALT LAKE CITY
040845 2 1 000	ALONGSIDE SALT LAKE CITY
0410 21000	LEAVING <b>Salt lake city</b>
041151 2603R	ANCHORED OFF BIKINI ISLAND - "D" 5 DEG "E"329 TREE 51
	DEG
041705 2603R	UNDERWAY TO BERTH
041812 2004H	
042359 2004H	
042400 2004H 051200 9999A	
051200 9999A 051201 9999A	PASSING SUMMARY 5 PLUS 3 SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARG
031201 7777A	ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
	ULY THROUGH 24 JULY
061330 2201P	ALONGSIDE NEVADA
061712 2201P	
071200 9999A	_
	MATELY 4 HOUES
090001 <b>9999</b> A	
	MATELY 2 HOURS
091418 2201P	
091715 2201P	
101200 9999A	CONTINUED SALVAGE OPERATIONS ON USS NEVADA FOR APPROXI

	MATELY 4 HOURS
111200 9999A	MANEUVERED OFF USS GRIGNSGS' PORT QUARTER AND BEGGN HE
111200 /////	MOVING HEAVY GEAR FROM THE SHIP THIS PROCEDURE TOOK
	APPROXIMATELY 2 HOURS
120744 2201P	ALONGSIDE <b>NEVGDG</b>
121115 2201P	LEAVING NEVADA
121517 2201P	ALONGSIDE NEVADA
121548 2201P	LEAVING NEVADA
130944 2101E	ALONGSIDE ARKANSAS
131144 2101E	LEAVING GRKGNSGS
141200 9999A	CONSERVER SPENT APPROXIMATELY 45 MINUTES GNCHORED OFF
	USS ARKANSAS <b>conducting</b> salvage operations
151009 2200U	ALONGSIDE PENNSYLVANIA
151107 2200U	LEAVING PEN YLVANIA
151559 2200U	ALONGS IDE PENNSYLVANIA
151639 2200U	LEAVING PENNSYLVAN!A
151720 2200U	ALONGS I <b>DE FENNSYLVGNIG</b>
151744 2200U	LEAVING PENNSYLVANIA
161200 9999A	ANCHORED OFF USS BUTTE FOR APPROXIMATELY 2 HOURS
201429 2200D	ALONGSIDE SGLT LAKE CITY
201601 2200D	LEGVING SALT LAKE CITY
211012 2201P	ALONGSIDE NEVGDG
211027 2201P	LEAVING NEVADA
211311 2201P	GLONGSIDE NEVGDG
211352 2201P	LEAVING NEVADA
221128 2101E	GLONGSIDE ARKANSAS
221201 2101E	LEAVING ARKANSAS
221355 2201P	
221435 2201P	
231200 9999A	SPENT APPROXIMATELY 5 HOURS PUTTING ANCHORS ON USS SKI
	PJACK
250835 2 <b>591M</b>	OBSERVED SHOT BAKER FROM A DISTANCE IN EXCESS OF 10 MI
251112 25214	LES DYNAM TAGONY
251112 2591M	ENTERED BIKINI LAGOON
251125 2796L	ANCHORED OFF ENYU ISLAND - R. TAN. ENYU 169 DEG L. TG
DE4400 070//	N. ENYU 138 DEG
251402 2796L	UNDERWAY TO USS BUTTE
251440 1900B	
<b>251441</b> 1900B	BUTTE RADIOACTIVE; PROCEEDING TO SOUTHEAST OF TARGET A
251450 24989	LYING TO SOUTHEAST OF TARGET GRRGY
251430 2478Y	
251638 2795B	
260001 2795B	
270923 2795B	
271004 2200X	
271007 2200X	
271021 2200X	
271217 18000	
	USS CORTLEND
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271238 18000 INSTRUMENTS
                          RECOVERED
271239 1800V ALDNGSIDE CORTLAND
271251 1800V LEAVING
                        CORTLAND
             ANCHORED OFF USS KENNETH WHITING
271320 25946
271420 25946 UNDERWAY TO ANCHORAGE
271511 2796R ANCHORED - "A" 170 DEG "B" 29 DEG
281232 2796R UNDERWAY TO USS BURLESON
281310 2692M NMR TEAM REPORTED ABOARD; PROCEEDING TO USS BRACKEN
281340 2200X ALONGSIDE BRACKENI
281353 2200X LEAVING BRACKEN
281428 2200S ALONGSIDE CATRON
                        BRACKEN1
281438 2200S LEAVING CATRON
281507 22998 ALONGSIDE FILLMORE
281528 22995 LEAVING
                        FILLMORE
251547 22980 ALONGSIDE BLADEN
2B1602 2298C LEAVING
                      BLADEN
281615 2298M ALONGSIDE GENEVA
281637 2298M LEAVING
                       GENEVA
281734 2093S ANCHORED - "A" 95 DEG "B" &1 D E G "C" 36 DEG
291251 20935 UNDERWAY TO USS BURLESON
291309 2294M NMR TEAM ABDARD; F'ROCEEDING TO USS CATRON
291341 22005 ALONGSIDE CATRON
291357 2200S LEAVING
                       CATRON
291422 2200B
              WITHDRAWING FROM USS GASCONADE; F'ROCEEDING TO USS BRIS
              CO
291455 22001 ALONGSIDE BRISCOE1
291505 22001 LEAVING BRISCOE1
291543 2294M MOORED TO USS BURLESON
291604 2294M PROCEEDING TO ANCHORAGE
291640 20938 ANCHORED - "A" 95 DEG "B"61 D E G "D" 27
301243 2093S UNDERWAY TO EURLESON
301320 24035 PROCEEDING FROM USS EURLESON TO USS GASCONADE
301350 2200B ALONGSIDE GASCONADE1
301406 22008 LEAVING
                       GASCONADE1
301422 24035 ANCHORED OFF BURLESON
301655 24038 UNDERWAY TO ANCHORAGE
301724 2796V ANCHORED - "B" 30 DEG L.TAN. ENYU ISLAND 132 DEG
310722 2796V UNDERWAY TO USS BRISCOE
310822 2200I
              COMMENCED SEAWATER WASHDOWN OF BRISCOE
310902 22001 WASHDOWN OF BRISCOE COMPLETED; F'ROCEEDING TO USS BRACK
310930 2200X
             COMMENCED WASHDOWN OF USS BRACKEN
311015 2200X VIGSHOOWN OF BRACKEN COMPLETED; PROCEEDING TO USS BRISC
311146 2200I
              COMMENCED SPRAYING OF ERISCOE WITH FOAMITE
311213 22001 NCOMPLETED SPRAYING OF BRISCOE
311226 22001 ANCHORED
311400 22001 NUNDERWAY TO CONTINUE SPRAYING BRISCOE
311414 22001 SPRAYING BRISCOE WITH SECOND COAT OF FOAM
311452 22001 SPRAYING COMPLETED; PROCEEDING TO USS SALT LAKE CITY
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COMMENCED SPRAYING USS BRACKEN IN SPRAY NG USS BRACKEN IN SPRAYING USS BRACKEN IN SPRAY NG USS BRACKEN IN SPRAY TO USS WHARTON LYING TO OFF USS WHARTON LYING TO OFF USS WHARTON LYING TO OFF USS SALT LAKE CITY2

ALCAGS DE SALT LAKE CITY2

ANCHORED "C" 98 DEG R.TAN. BUNDERWAY TO USS SALT LAKE CITY2

ANCHORED "C" 98 DEG R.TAN. BUNDERWAY TO USS SALT LAKE CITY2

ANCHORED "A" 95 DEG "B" 62 DI ANCHORED SALT LAKE CITY2

ANCHORED SALT LAK
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DATE	TIME	LAGODN <b>WATER</b>	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	0	0		o	0
JUL 2	A+1	6	10		16	16
JUL 3	A+2	0	0		0	lb
JUL 4	A+3	0	1		1	17
JUL 5 m		0	2		-	19
JUL 25	BtO	5	0	7	12	31
JUL 26	B+1	0	0	2	2	33
JUL 27	B+2	6	20	23	49	82
JUL 28	B+3	5	22	42	69	151
JUL 29	8+4	1	25	29	55	206
<b>JUL</b> 30	B+5	3	55	26	84	270
JUL 31	B+6	5	2	25	32	322
AUG 1	B+7	11	50	21	82	404
AUG 2	B+8	11	76	18	105	509
AUG 3	B+9	0	0	16	lb	525
AUG 4	B+10	0	0	14	14	<b>539</b>
AUG 5	B+11	0	0	1 2	12	551
AUG 6	B+12	0	0	11	11	562
GUG 7	B+13	7	6	10	23	585
AUG 8	B+14	10	0	9	19	604
AUG 9	B+15	9	0	8	17	621
AUG 10	B+16	8	0	8	16	637
AUG 11	B+17	7	0	7	14	651
AUG 12	9+18	6	0	7	13	664
GUG 13	B+19	6	0	6	12	676
AUG 14	B+20	5	0	6	11	687
AUG 15	B+21	5	0	5	10	697
AUG 1 6	B+22	4	0	5	9	706
AUG 1 7	B+23	4	0	5	9	715
AUG 18	B+24	3	0	4	7	722
AUG 19	B+25	3	0	4	7	729
AUG 20	B+26	3	0	4	7	736
AUG 21	B+27	3	0	4	7	<b>743</b>
AUG 22	B+28	2	0	4	b	<b>749</b>
PUG 23	B+29	2	0	4	6	755
AUG <b>24</b>	B+30	2	0	3	5	760
AUG 25	B+31	2	0	3	5	765
AUG 26	B+32	1	0	3	4	769
GUG 27	B+33	1	0	3 3	4	773
AUG 28	B+34	1	0		4	777
AUG 29	B+35	1	0	3	4	781
AUG 30	B+36	1	0	3	4	<b>785</b>
AUG 3 1	B+37	1	0	3	4	789
SEP 1	B+38	0	0	2	2	791
SEP 2	B+39	0	13	2	15	806
SEP 3	B+40	0	6	2	8	814
SEP 4	B+41	0	0	2	2	816
SEP 5	Et42	O	101	2	103	919

SHIP: USS COUCAL (ASR-8)

CREW SIZE: 117

**GROUP: SALVAGE** 

MISSION: COUCAL arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As a member of the Salvage Unit, COUCAL's main duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
			July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes **and** begins I July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.556 REM

Date unit departed Bikini: September 4, 1946 (BAKER + 41)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS COUCAL

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USS COUCAL **CALCULATED FILM BADGE DOSE** (IN MREM)

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM <b>TOTAL</b>
JUL 1	At0	1	0		1	1
JUL 2	A+1	0	Ō		0	1
JUL 3	A+2	0	0		0	1
JUL 4	A+3	0	0		0	1
JUL 5 T		0	0			1
JUL 25	B+0	5	0	7	12	13
JUL 26	B+1	0	0	2	2	15
JUL 27	B+2	3	0	15	18	33
JUL 28	B+3	6	0	30 30	36	69
JUL 29	B+4	2 3 3	0		32	101
JUL 30	B+5	3	0	26	29	130
JUL 31	B+6	3	3	25	31	161
AUG 1	B+7	3	0	21	24	185
AUG 2	8+8	1 1	0	18	29	214
AUG 3	B+9	16	0	lb	32	246
AUG 4	B+10	1 4	0	14	28	274
AUG 5	B+11	13	0	12	25	299
AUG 6	B+12	12	0	11	25	300
AUG 7	B+13	1 1	0	10	21	343
AUG B	B+14	10	0	9	19	362
AUG 9	B+15	7	0	8	15	377
AUG 10	B+16	5	0	8	13	390
AUG 11	B+17	7	0	7	14	404
AUG 12	B+18	6	0	7	13	417
AUG 13	B+19	6	0	b	12	429
AUG 14	B+20	5	0	b	11	4 4 0
AUG 15	B+21	5	0	5 <b>5</b>	10	450 450
AUG 16	B+22	4	0		9	459
AUG 17 AUG 18	B+23	4	0	5	9	468
AUG 18 AUG <b>19</b>	B+24 B+25	3 3	0 0	4 4	7 7	475
AUG 20	B+26	3 3			7	482 <b>489</b>
AUG 21	8+27	ა 3	0 0	4	7	<b>489</b> <b>4</b> 96
AUG 22	8+28	2	0	4	b	502
AUG 23	B+29	2	Ö	4	6	508
AUG 24	B+30	2	0		5	513
AUG 25	B+31	2	ŏ	ن 3	5	518
AUG 26	B+32	1	ő	3	4	522
AUG 27	B+33	1	ŏ		4	526
AUG 28	B+34	1	ŏ	्र र	4	530
AUG 29	B+35	1	ŏ	3 3 3 3	4	534
AUG 30	B+36	1	ŏ	3	4	538
AUG 31	B+37	i	ŏ		4	542
SEP 1	B+38	ō	Ö	3 2	2	544
SEP 2	B+39	O	ŏ		2	546
SEP 3	B+40	0	Ŏ	<b>2</b> 2	2	548
SEP 4	B+41	0	6	2	8	556

SHIP: USS CREON (ARL-11)

CREW SIZE: 144

**GROUP: SERVICE** 

MISSION: On March 19, 1946, CREON arrived at Kwajalein Atoll, located some 200 miles southeast of Bikini, to begin serving as a repair facility during CROSSROADS.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.284 REM

Date unit departed Bikini: August 21, 1946 (BAKER + 27)

Ship contamination factor when departing Bikini: 5 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS CREON

TIME	PLACE	REMARKS
010900	2591M	MOORED AT KWAJALEIN AT TIME OF SHOT ABLE
021009	2591M	ENTERED BIKINI LAGOON
021125	2603B	ANCHORED IN BERTH #96
042400	2403B	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER - BEARING 240 DEGREES; DISTANCE 12
		MILLES (STEAMING TOWARD RONGELAP)
310615	2591M	ENTERED BIKINI LAGOON
310727	1902Y	ANCHORED IN BERTH #140
310930	1902Y	UNDERWAY TO NEW ANCHORAGE
311047	2603B	ANCHORED IN BERTH #96
331516	2603B	UNDERWAY TO NEW ANCHORAGE
331704	2593K	ANCHORED IN BERTH "SUGAR"
352400	2593K	ANCHORED AS BEFORE
521002	2591M	DEPARTED BIKINI LAGDON ON 21 AUGUST 1946 - ENROUTE KWA JALEIN

USS CREON CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM Total
JUL 1	A t ()	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 T	HRU 24	0	0			0
JUL 25	B t O	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	0	0	0	0	Ō
JUL 29	B+4	0	0	()	0	Ō
JUL 30	B+5	0	0	0	0	0
JUL 31	B+6	10	0	15	25	25
GUG 1	B+7	1 4	0	18	32	57
AUG 2	B+8	10	0	16	26	83
AUG 3	B+9	0	0	13	13	96
GUG 4	B+10	0	0	12	12	108
AUG 5	B+11	0	0	10	10	118
AUG 6	B+12	0	0	9	9	127
AUG 7	B+13	5	0	8	13	140
AUG 8	B+14	10	0	8	18	158
AUG 9	B+15	9	0	7	16	174
AUG 10	B+16	8	0	6	14	188
AUG 11	B+17	7	0	6	13	201
AUG 12	B+18	6	0	6	12	213
AUG 13	B+19	6	0	5	11	224
AUG 14	B+20	5	0	5	10	234
<b>GUG</b> 15	8+21	5	0	5	10	244
AUG 16	B+22	4	0	4	8	252
AUG 17	B+23	4	0	4	8	260
AUG 18	B+24	3	0	4	7	267
AUG 19	B+25	3	0	4	7	274
AUG 20	B+26	3	0	3	6	280
<b>GUG</b> 21	B+27	1	0	3	4	284

SHIP: USS CUMBERLAND SOUND (AV-17)

CREW SIZE: 540

CROUP: TECHNICAL

MISSION: CUMBERLAND SOUND (AV-17) arrived at Bikini on May 3, 1946, to prepare for the operation. As a member of the Instrumentation Unit, the ship provided laboratory and base facilities during CROSSROADS.

SHOT	DATA:	<b>TEST</b>	DATE (TIME)	YIELD	TYPE DETONATION	
			1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90	feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.061 REM

Date unit departed Bikini: August 1, 1946 (BAKER + 7)

Ship contamination factor when departing Bikini: 13 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS CUMBERLAND SOUND

00753 2293 00855 2304 20547 2304 20642 2591	60001 2294 81715 2294 81737 2591 81737 2591 91251 2591 91327 2293	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IME PLAC 10835 2591 11421 2591
3W UNDERWAY FROM BERTH "G" 4S ANCHORED IN BERTH 56 4S UNDERWAY FROM BERTH 56 1M TOOK DEPARTURE OF B KINI ENROUTE FOR SAN	T ANCHORED AS BEFORE T UNDERWAY FROM BERTH 38 M EXIT BIKINI LASOON M REENTER BIKINI LASOON M ANCHORED IN BERTH "G"	4N ANCHORED IN BENTH 36 4N UNDEFWAY FROM ANCHORAGE 2R ANCHORED IN BERTH 147 2R UNDEFWAY FROM BERTH 147 4S ANCHORED IN BERTH 56 4S ANCHORED AS BEFORE 1M OBSERVED SHOT BAKER 1M ENTERED BIKINI LAGOON 4T ANCHORED IN BERTH 384	E REMARKS  M OBSERVED SHOT ABLE  M ENTERED BIKINI LAGO
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USS CUMBERLAND SOUND CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	<b>LAGOON</b> Water	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY TOTAL	curl <b>TOTAL</b>
JUL 1	A+0	0	0		0	0
JUL 2	A+1	2	0		2	2
JUL 3	A+2	0	0		0	2
JUL 4	A+3	0	0		0	2
JUL 5 TI	<b>HI</b> U 24	0	0			2
JUL 25	<b>B+</b> 0	0	0	0	0	2
JUL 26	B+1	0	0	0	0	2
JUL 27	B+2	0	0	0	0	2
JUL 28	B+3	0	0	0	0	2
JUL 29	B+4	0	0	0	0	2
JUL 30	8+5	12	0	8	20	22
JUL 31	B+6	17	0	10	27	49
AUG 1	B+7	4	0	8	12	61

SHIP: USS CURRENT (ARS-22)

CREW SIZE: 94

GROUP: SALVAGE

MISSION: CURRENT arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As a member of the Salvage Unit, CURRENT's main duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.885 REM

Date unit departed Bikini: August 25, 1946 (BAKER + 31)

Ship contamination factor when departing Bikini: 5 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS CURRENT

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071200 9999A
071355 2201U ALONGSIDE NAGATO
081423 22010
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081510 2201U ALONGS I DE NAGATO
081839 2201U LEAVING
                        NAGATO
081901 9999A
              ANCHORED WITH STERN SECURED TO NAGATO FROM 1901 TO 071
              6 THE NEXT DAY
090716 9999A
              CONCLUDING TIME ANCHORED TO NAGATO
091200 9999A
              TOWED NAGATO ASTERN FOR 50 MINUTES
121200 9999A
              MOORED ALONGSIDE LST-125 FOR 2 HRS ! MIN
121201 9999A MOORED ALONG STERN OF LST-125 FOE 29 MINUTES
160900 9999A MOORED ALONGSIDE NAGATO FOE 2 HRS 47 MIN
              ANCHORED CLOSE ABOARD PRINZ EUGEN FROM 1029 TO 0755 TH
161029 9999A
              E NEXT DAY (21 HRS 26 MIN)
              ATA-180 MOORED ALONGSIDE CURRENT FOR 15 MINUTES
161200 9999A
170755 9999A
              CONCLUDING TIME CLOSE ABOARD PRINZ EUGEN
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200937 9999A
              OM 0937 TO 1023 THE FOLLOWING DAY (24 HRS 46 MIN)
211023 9999A
              CONCLUDING TIME CLOSE ABOARD USS SARATOGA
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251206 2298L
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251219 2298L
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251502 1700E LEAVING
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281233 2505J
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281256 2104E LEAVING
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281324 25020
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281431 2502U LEAVING
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281547 24016
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281553 24016
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291052 1903W
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291307 1902E
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291311 1902E LEAVING
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341639 1993T ANCHORED - "A" 96 DEG "C" 39.5 DEG
352400 1993T ANCHORED AS BEFORE
561000 2204U ALONGSIDE LST-661
561115 2204U LEAVING LST-661
561354 2591M DEPARTED BIKINI LAGOON ON 25 AUGUST 1946 - ENROUTE KWA
JALEIN
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USS CURRENT CALCULATED FILM BADGE DOSE (IN MREM

DATE	TINE	LAGOON <b>WATER</b>	TARGET SHIPS	SHIF CONTAMINATION	DAILY TOTAL	<b>CUM</b> TOTAL
JUL 1	A+0	15	1		1 b	lb
JUL 2	A+1	3	21		24	40
JUL 3	A+2	0	0		0	4 Û
JUL 4	A+3	0	0		0	40
JUL 5 TI	IRU 24	0	51			91
JUL 25	B+0	11	40	19	70	161
JUL 26	B+1	0	0	14	14	175
JUL 27	B+2	1	0	9	10	185
JUL 28	B+3	10	8	44	62	247
JUL 29	H+4	10	60	36	106	353
JUL 30	B+5	7	73		110	463
JUL 31	B+6	8	53	26	87	550
GUG 1	B+7	b	2	21	29	579
AUG 2	B+8	4	21	18	43	622
AUG 3	B+9	0	5	lb	2 1	643
AUG 4	B+10	0	0	14	1 4	657
AUG 5	B+11	0	0	12	12	669
<b>AUG</b> b	B+12	0	0	11	11	680
AUG 7	B+13	7	0	10	17	697
AUG 8	B+14	10	0	9	19	716
AUG 9	B+15	9	0	8	17	7
AUG 10	B+16	8	0	8	lb	749
AUG 11	B+17	7	0	7	14	763
AUG 12	B+18	b	0	7	13	776
AUG 13	B+19	b	0	b	12	788
AUG 14	B+20	5	0	<i>b</i>	11	799
AUG 15	B+21	5	0	5	10	809
AUG 1b	B+22	4	0	5	9	818
AUG 17	B+23	4	0	5	9	827
AUG 18	B+24	3	0	4	7	834
AUG 19	B+25	3	0	4	7	841
AUG 20	B+26	3 3	0	4	7	848
AUG 21	B+27		0	4	7	855
AUG 22	B+28	2 2	0	4	b	861
<b>AUG 23</b> <b>AUG</b> 24	B+29 B+30	2	0 0	4	b <b>5</b>	867 972
AUG 25		0		3		872
MUU &J	B+31	V	10	ð	13	885

SHIP: USS DELIVER (ARS-23)

CREW SIZE: 84

GROUP: SALVAGE

MISSION: DELIVER arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As a member of the Salvage Unit, DELIVER's main duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires.

SHOT DATA: <u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
	July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.952 REM

Date unit departed Bikini: August 20, 1946 (BAKER + 26)

Ship contamination factor when departing Bikini: 6 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS DELIVER

	TIME	PLACE	REMARKS
O11258   2591M   O11240   2794K   O12670   BERTH "DOG"   O12794K	010900	2501M	ORSEDVED SHOT ARIF
11340 2794K   O20708 2794K   O20708 2794K   O20700 2504X   O20900 2504X   O2090			
202708   2794K   2794K   2794K   202090   2504X   2504X   2504X   221105   2504X   202111   2504X   202111   2504X   202111   2504X   202114   20011			
020900   2504X   BOARDING   PARTY   LEFT   SHIFT   TO   INSPECT   LANDING   CRAFT   ON   BEACH			
SEACH			
	020700	LOUTA	
O21111   O2011	020902	2504X	ANCHORED BERTH #94
	021105	2504X	BOARDING PARTY RETURNED TO SHIF
	021111	2504X	UNDERWAY TO BOARD TARGET SHIPS
CRITTENDEN   CRI	021140	2001I	ALONGSIDE CRITTENDEN
O21301   21006	021230	2001I	
O21412   21006   BOARDING   PARTY   RETURNED   (WENT ON BOARD AT 1301)     O21413   21006   LEGVINS   ARDC-13     O21442   22016   ALONGSIDE   F'ENSCOLG     O21622   22016   BOARDING   PGRTY   RETURNED   TO   DELIVER (WENT ABOARD   AT 144     O21625   22016   LEAVING   F'ENSGOLG     O21644   2504Y   UNDERWAY   TO USS   WHARTON     O21705   2103H   LEGVING   SEWHARTON   BERTH   #89; BOARDING   PARTY   #4   LEFT   SHIP     O21707   2103H   LUNDERWAY   TO   GNCHORGGE     O21735   2794K   ANCHORED   BERTH   "DOG"   (OFF   IONCHEBI   ISLAND)     O22358   2794K   SUMMARY   58     O22359   2794K   SUMMARY   58   SUMMARY   58     O21700   9999A   CECIVED   BY   DELIVER   WHILE   ALONGSIDE   TARGET   SHIPS   AFTER     O42400   2794K   GNCHORED   AS   BEFORE     O51201   9999A   FASSING   SUMMARY   5   PLUS   2.9     O51201   9999A   ALONGSIDE   USS   INDEFENDENCE   FOR   25   RRS   10   MIN     O71200   9999A   CONCLUDING   GLONGSIDE   USS   INDEPENDENCE   (FROM   17   JULY)     O71200   9999A   CONCLUDING   GLONGSIDE   USS   INDEPENDENCE   (FROM   17   JULY)     O71200   9999A   CONCLUDING   GLONGSIDE   USS   INDEPENDENCE   (FROM   17   JULY)     O71200   9999A   CONCLUDING   GLONGSIDE   USS   INDEPENDENCE   (FROM   17   JULY)     O71200   0714K   CONCLUDING   GLONGSIDE   USS   INDEPENDENCE   (FROM   17   JULY)     O71200   0714K   CONCLUDING   GLONGSIDE   USS   INDEPENDENCE   (FROM   17   JULY)     O71200   0714K   CONCLUDING   GLONGSIDE   USS   INDEPENDENCE   (FROM   17   JULY)     O71200   0714K   CONCLUDING   GLONGSIDE   USS   INDEPENDENCE   (FROM   17   JULY)     O71200   0714K   CONCLUDING   GLONGSIDE   USS   INDEPENDENCE   (FROM   17   JULY)     O71200   0714K   CONCLUDING   GLONGSIDE   USS   INDERWAY   TO   EERTH   "EASY"     O71200   07120   O7120	021232	2001I	LEAVING CRITTENDEN
1021413   21006   LEGVINS   ARDC-13     021442   22016   ALONGSIDE   F'ENSGCOLG     021622   22016   BOARDING   PCRTY   RETURNED   TO   DELIVER (WENT ABOARD   AT   144     021625   22016   ALONGSIDE   USS   GUNSTON   HALL     021644   2504Y   ALONGSIDE   USS   GUNSTON   HALL     021705   2103H   LYING   OFF   USS   WHARTON     021707   2103H   LYING   OFF   USS   WHARTON   BERTH   #89;   BOARDING   PARTY   #4   L     ETT   SHIP     021707   2103H   ANCHORED   BERTH   "DOG"   (OFF   IONCHEBI   ISLAND)     022358   2794K   ANCHORED   BERTH   "DOG"   (OFF   IONCHEBI   ISLAND)     022359   2794K   ANCHORED   BERTH   "DOG"   (OFF   IONCHEBI   ISLAND)     022359   2794K   ANCHORED   AS   BEFORE     042400   2794K   ANCHORED   AS   BEFORE     051201   9999A   ALONGSIDE   SUMMARY   5   PLUS   IS   THE   SUM   TOTAL   OF   ALL   FREE   FIELD   TGRG     ET   SHIP   DOSES   RECEIVED   BY   THIS   SHIP   FOR   THE   PERIOD   5   J     ULY   THROUGH   24   JULY     171200   9999A   ALONGSIDE   USS   INDEPENDENCE   (FROM   17   JULY)     085ERVED   SHUT   BAKER   BEARING   326   DEG;   DISTGNCE   12   HIL     ES   ENTERED   BIKINI   LGGOON   -   UNDERWEY   TO   EERTH   "EASY"     261537   2794K   ANCHORED   AS   BEFORE     270838   2795F   MOORED   ALONGSIDE   OF   USS   CLGMP   IN   BERTH   "BAKER"     261600   2795F   MOORED   ALONGSIDE   OF   USS   CLGMP   IN   BERTH   "BAKER"     261600   2795F   MOORED   ALONGSIDE   OF   USS   CLGMP   IN   BERTH   "BAKER"     261600   2795F   MOORED   ALONGSIDE   OF   USS   CLGMP   IN   BERTH   "BAKER"     261600   2795F   MOORED   ALONGSIDE   OF   USS   CLGMP   IN   BERTH   "BAKER"     261600   2795F   MOORED   ALONGSIDE   OF   USS   CLGMP   IN   BERTH   "BAKER"     261600   2795F   MOORED   ALONGSIDE   OF   USS   CLGMP   IN   BERTH   "BAKER"     261600   2795F   MOORED   ALONGSIDE   OF   USS   CLGMP   IN   BERTH   "BAKER"	021301	21006	
021442   22016			•
021625   22016   22016   22016   22016   22016   22016   22016   22016   22016   22016   22016   22017   220			
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O21644   2504Y   O21649   2504Y   O21705   2103H   O21705   2103H   O21705   2103H   O21705   2103H   O21707   2103H   O21707   2103H   O21735   2794K   O22358   2794K   O22358   O22359   O21735   O2	021622	22016	
O21649   2504Y   UNDERWGY   TO   USS   WHARTON			
1021705   2103H			
C21707   2103H   CNCHORGE   CNC			
021735   2794K	021705	2103H	EFT SHIP
022358   2794K   PASSING   SUMMARY   58			
1999   1999			ANCHORED BERTH "DOG" (OFF IONCHEBI ISLAND)
CCEIVED   BY   DELIVER   WHILE   ALONGSIDE   TARGET   SHIPS   AFTER			
042400   2794K	022359	2794K	
051200   9999A   PASSING   SUMMARY   5   PLUS   2.9			SHOT ABLE
SUMMARY   S   PLUS   IS   THE   SUM   TOTAL   OF   ALL   FREE   FIELD   TGRG   FEE   SHIP   DOSES   RECEIVED   BY   THIS   SHIP   FOR   THE   PERIOD   S   J   ULY   THROUGH   24   JULY   171200   9999A   ALONGSIDE   USS   INDEPENDENCE   FOR   25   HRS   10   MIN   181200   9999A   CONCLUDING   GLONGSIDE   USS   INDEPENDENCE   (FROM   17   JULY)   17   18   18   18   19   19   19   19   19			
ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 JULY 171200 9999A   ALONGSIDE USS INDEFENDENCE FOR 25 HRS 10 MIN			
171200   9999A	051201	9999A	
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250835 2591M   OBSERVED   SHOT   BAKER - BEARING   326   DEG;   DISTGNCE   12   HIL   ES   251115 2591M   ENTERED   BIKINI   LGGOON   LGGO			
ES 251115 2591M ENTERED BIKINI LGGOON UNDERWGY TO EERTH "EASY" 251159 2794K GNCHORED IN BERTH "EASY" 260001 2794K ANCHORED AS BEFORE 261537 2794K UNDERWGY 261600 2795F MOORED ALONGSIDE OF USS CLGMP IN BERTH "BAKER" 270838 2795F ANCHORED IN BERTH "BAKER" AS BEFORE			· · · · · · · · · · · · · · · · · · ·
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261600 2795F MOORED ALONGSIDE OF USS CLGMP IN BERTH "BAKER" 270838 2795F ANCHORED IN BERTH "BAKER" AS BEFORE			
270838 2795F ANCHORED IN BERTH "BAKER" AS BEFORE			

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LEAVING MUGFORD1
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321042 2202K LEAVING
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321130 2402W BOARDING TEAM RETURNED TO USS WHARTON (BERTH 145'
321131 2402W UNDERWAY TO ANCHORAGE
321203 2794K
             ANCHORED BERTH "EASY"
321356 2794K
             UNDERWAY TO USS RECLAIMER
321430 2402W ALONGSIDE RECLAIMER (BERTH 145)
321510 2402W UNDERWAY TO USS WILDCAT
321600 2695R ALONGSIDE USS WILDCAT
321703 2695R UNDERWAY TO NEW BERTH
321707 2794K ANCHORED IN BERTH "E"
330748 2794K UNDERWAY TO USS WHARTON TO PICK UP BOARDING PARTY
330810 2402W RECEIVED BOARDING PARTY; FROCEEDING TO PRINZ EUGEN
330832 2002L BEGAN WASHING DOWN PRINZ EUGEN
331147 2002L ALONGSIDE PRINZ EUGEN2
331231 2002L BOARDING PARTY RETURNED (LEFT AT 1147)
331235 2002L LEGVING
                       PRINZ EUGEN2
331245 2202K ALONGSIDE NEVADA1
331346 2202K SHIP RECEIVED ONE DAY'S TOLERANCE OF RADIATION
331400 2202K LEAVING
                        NEVADA1
331420 2402W ARRIVE VICINITY OF USS WHARTON (BERTH #145)
331513 2094U ANCHORED SOUTH OF BERTH #379
340745 2094U UNDERWAY TO USS PENNSYLVANIA
340815 2200U WASHING DOWN PENNSYLVANIA
341140 2200U ALONGSIDE PENNSYLVANIA
341150 2200U LEAVING
                        PENNSYLVANIA
341230 2392D LYING TO NEAR AKA-44 TO TAKE ON FREIGHT
341400 2392D UNDERWAY TO USS QUARTZ
341421 25940 ALONGSIDE USS QUARTZ
341524 25940 UNDERWAY TO BERTH #379
341552 2094U ANCHORED 1275 YARDS SOUTH OF BERTH #379
352400 2094U ANCHORED AS BEFORE
381557 2301G ALONGSIDE MUSTIN1
381723 2301G LEAVING
                        MUSTIN1
391000 21010 ALONGSIDE PENSACOLA
391112 21010 LEAVING
                        PENSACOLA
400902 2102H ALONGSIDE TRIPPE2
400952 2102H LEAVING
                        TRIPPE2
401420 2000D ALONGSIDE INDEPENDENCE
401547 2000D LEAVING
                        INDEPENDENCE
401555 2200X ALONGSIDE BRACKEN2
401620 2200X LEAVING
                        BRACKEN2
441003 23016 ALONGSIDE MUSTIN2
441731 23016 LEAVING
                        MUSTIN2
500934 2300A ALONGSIDE NEW YORK?
500956 2300A LEAVING
                        NEW YORK2
501010 22000 ALONGSIDE
                        PENNSYLVANIA
501023 22000 LEAVING
                        PENNSYLVANIA
              ALONGSIDE
501047 2002D
                        STACK2
501137 2002D LEAVING
                        STACK2
501241 2202K ALONGSIDE NEVADA2
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501530 LLVQK LEAVING NEVGDG?
511212 2591M EXITED BIKINI LAGOON ENROUTE TO KWGJGLEIN ON 20 AUGUST 1945

USS DELIVER CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM <b>TOTAL</b>
JUL 1	A+0	0	0		0	0
JUL 2	A+1	2	41		43	43
JUL 3	A+2	ō	0		0	43
JUL 4	A+3	0	0		0	43
JUL 5 TH	łRU 24	0	2			45
JUL 25	B+0	0	0	0	0	45
JUL 26	B+1	0	0	0	0	45
JUL 27	B+2	0	0	1	1	46
JUL 28	B+3	6	90	34	130	176
JUL 29	B+4	7	117	31	155	331
JUL 30	B+5	6	71	29	106	437
JUL 31	B+6	3	0	25	28	465
AUG 1	B+7	4	60	21	85	550
AUG 2	B+8	5	63	18	86	636
AUG 3	B+9	2	5	16	23	659
AUG 4	B+10	0	0	14	14	673
AUG 5	B+11	0	0	12	12	685
AUG 6	B+12	0	0	11	11	696
AUG 7	B+13	7	7	10	24	720
AUG 8	B+14	10	28	9	47	767
AUG 9	B+15	9	27	8	44	811
AUG 1 0	B+16	7	0	8	15	826
AUG 11	B+17	7	0	7	14	840
AUG 12	B+18	6	0	7	13	853
AUG 13	B+19	6	15	6	27	880
AUG 14	B+20	5	0	6	11	891
AUG 15	B+21	5	0	5	10	<b>9</b> 01
AUG 16	B+22	4	0	5	9	910
AUG 17	B+23	4	0	5	9	919
AUG 18	B+24	3	0	4	7	926
AUG 19	B+25	3	14	4	21	947
BUG 20	B+26	1	0	4	5	952

SHIP: USS DIXIE (AD-14)

CREW SIZE: 835

GROUP: SERVICE

MISSION: DIXIE arrived at Bikini Atoll on May 24, 1946, to prepare for the operation. As a destroyer tender, it provided repair and other services to many of the numerous craft involved in CROSSROADS.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
			July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins I July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various **sources** which it encountered while at Bikini lagoon. A daily total **and** cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.214 REM

Date unit departed Bikini: August 25, 1946 (BAKER + 31)

Ship contamination factor when departing Bikini: 2 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS DIXIE

5240 6172	331507 331556	300716 310000	300644	250835	042400	021135	021106	020001	011753		010900	! ! !	그 프
2394D 2591M	2500M 2394D	2500M 2500M	2591M	2591M	2500M	2500M	2598M	2598M	2591M		N 1653	 	HOE L
# B	UNDERWAY TO SHIFT BERTHS ANCHOWED IN BERTH #365	ANCHORED BERTH 191 ANCHORED AS BEFORE	ENTERED BIKINI LAGOON	DE VED	ANCHORED AS BEFORE	ANCHORED BERTH 191	UNDERWAY TO SHIFT BERTHS	ANCHORED BERTH 269	ENTERED BIKIN LAGOON	E OF 22.1 MILES	OBSERVED SHOT ABLE AT A BEARING OF 205 DEG AND DISTANC		REMARKS

USS DIXIE CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMENATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 T	HRU 2 4	0	0			0
JUL 25	0	0	0	0	0	0
JUL 24	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	()
JUL 28	B+3	ij	0	0	0	0
JUL 29	B+4	0	0	0	Ų	0
JUL 30	B+5	5	0	7	12	12
JUL 31	B+6	9	0	10	19	31
GUG 1	B+7	11	0	8	19	50
AUG 2	B+8	8	0	7	15	65
AUG 3	B+9	0	O	6	6	71
AUG 4	B+10	0	0	5	5	76
AUG 5	B+11	0	0	5	5	81
AUG 6	B+12	0	0	4	4	85
GUG 7	B+13	6	0	4	10	95
AUG EI	B+14	10	0	3	13	108
AUG 9	B+15	9	0	3	12	120
GUG 10	B+16	8	0	3	11	131
A U G 11	B+17	7	0	3	10	141
GUG 12	B+18	6	0	3	9	150
<b>GUG</b> 13	B+19	6	0	2	8	158
AUG 14	B+20	5	0	2	7	165
AUG 15	B+21	5	0	2	7	172
GUG 16	B+22	4	0	2	6	178
AUG 17	B+23	4	0	2	6	184
AUG 18	B+24	3	0	2	5	189
AUG 19	B+25	3	0	2	5	194
AUG 20	B+26	3	0	2	5	199
AUG 21	B+27	3	0	1	4	203
AUG 22	B+28	2	0	1	3	206
AUG 23	B+29	2	0	1	3	209
AUG 24	B+30	2	0	1	3	212
<b>AUG</b> 25	B+31	1	0	1	2	214

SHIP: USS DUTTON (AGS-8)

CREW SIZE: 60

GROUP: SURVEY

MISSION: DUTTON did not arrive at Bikini until August 3, 1946. As part of the Survey Unit, its mission included surveying the probable effects of the nuclear tests on fish and other wildlife and conducting an oceanographic survey to determine the character of the ocean currents in and around Bikini Atoll.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.306 REM

Date unit departed Bikini: September 14, 1946 (BAKER + 51)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS DUTTON

TIME	PLACE	REMARKS
010900		NOT AT BIKINI FOR SHOT ABLE
250835	2591M	ENROUTE FROM PEARL HARBOR TO KWAJALEIN AT TIME OF SHOT BAKER
340530	2591M	ENTERED BIKINI LAGOON
340840	2291A	ANCHORED IN OPEN ROADS; BUOY #1 115.5 DEG BUOY #2 104
		DEG BN "H" 268 DEG BN "B" 50 DEG
350838	2291A	UNDERWAY TO USS WILDCAT
350924	24959	MODRED FORT SIDE TO USS WILDCAT FOR FRESH WATER
350950	24955	UNDERWAY
351009	2595X	MOORED TO USS ENOREE FOR FUEL
351146	2595X	UNDERWAY TO ANCHORAGE
351205	2292M	ANCHORED IN OPEN ROADS; LEFT TANGENT BIKINI ISLAND 9.5 DEG BUOY #1 95.5 DEG BN "H" 272 DEG
7 <sub>00</sub> 732	2571M	DEPARTED BIKINI LAGOON 14 SEP 1946 - ENROUTE KWAJALEIN

DATE	TIME	LAGOON WATER		SHIP CONTAMINATION		CUM TOTAL
JUL 1 JUL 2 JUL 3 JUL 4 JUL 5 TH		0 0 0 0 0	0 0 0 0 0		0 0 0 0	0 0 0 0 0
JUL 25 JUL 25 JUL 27 JUL 27 JUL 30 JUL 31 AUG 3 AUG 5 AUG 5 AUG 5 AUG 6 AUG 6 AUG 11 AUG 12 AUG 13 AUG 14	R BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AUG 15 AUG 17 AUG 17 AUG 17 AUG 22 AUG 23 AUG 25 AUG 25 AUG 25 AUG 31 AUG 31 AU	B+21 B+22 B+23 B+24 B+25 B+26	5 4 4 3 3 3 3 3 2 2 2 2 2 1 0 0 0 0 0 0 0 0		3 8 7 7 6 6 6 5 5 5 5 5 4 4 4 4 4 3 3 3 3 3	13 11 19 9 9 8 7 7 7 7 5 4 4 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	156 157 178 178 178 178 178 178 178 178 178 17

SEP 5	B+42	(ji	0		3	281
SEP &	B+43	0	0	3	3	294
SEP 7	B + 4.4	0	0	3	3	287
SEP 8	B+45	Q		3	3	290
SEP 9	B+45	O.	Q	3	3	293
SEP 10	B+47	Q.	0	J	3	296
SEP 11	B+48	0	Q	3	3	299
SEP 12	B+49	0	0	3	3	302
SEP 13	B+50	()	Q.	2	2	304
SEP 14	B+51	0		2	7	AOE

SHIP: USS ENOREE (AO-69)

CREW SIZE: 152

GROUP: SERVICE

MISSION: ENOREE arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As part of the Repair and Service Unit, ENOREE provided provisions or logistical support (fuel and water) to the other support ships participating in the operation.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
			July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated **dose** received while at Bikini: 0.198 REM

Date unit departed Bikini: August 24, 1946 (BAKER + 30)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS ENOREE

TIME PLACE	REMARKS
010900 2591M 040715 2591M	ANCHORED IN KWAJALEIN ATOLL DURING SHOT ABLE ENTERED BIKINI LAGOON AFTER SHOT ABLE
040751 2697W	ANCHORED IN BERTH 305
250835 2 <b>591M</b>	OBSERVED SHOT BAKER WHILE STEAMING IN COMPANY WITH USS DIXIE
300649 2591M 300729 2697W	ENTERED BIKINI LAGOON AFTER SHOT BAKER ANCHORED IN BERTH 305
331640 2697W 331725 2595X	UNDERWAY TO SHIFT BERTHS ANCHORED IN BERTH OBSE
381250 2595X	UNDERWAY ANCHORED IN BERTH 305
381313 2697W 551513 2591M	DEPARTED BIKINI LAGOON ENROUTE FOR KWAJALEIN 24 AUGUST 1946

USS ENDREE CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON Water	<b>TARGET</b> SHIPS	SHIP CONTAMINATION		CUM <b>TOTAL</b>
JUL 1	At ()	0	0		0	U
JUL 2	A+1	0	0		0	0
JUL 3	A±2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 T	HRU <b>24</b>	0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	Ļi
JUL 28	B+3	0	0	0	0	
JUL 29	8+4	0	0	0	0	0
JUL 30	B+5	2	0	6	8	8
JUL 31	B+6	6	0	1 4	20	28
AUG 1	B+7	9	O	13	22	50
AUG 2	B+8	8	0	11	19	b ?
AUG 3	B+9	0	0	10	10	' 9
AUG 4	B+10	0	0	9	9	8 8
AUG 5	B+11	0	0	8	8	9 6
AUG 6	B+12	0	0	7	7	103
AUG 7	B+13	0	0	6	6	109
AUG B	P+14	0	0	6	6	115
AUG 9	B+15	0	0	5	5	120
AUG 10	B+16	Û	0	5	5	125
AUG 11	B+17	Q	0	4	4	129
AUG 12	B+18	0	0	4	4	133
AUG 13	B+19	0	0	4	4	137
AUG 14	B+20	3	0	3	á	143
AUG 15	B+21	5	0	3	8	151
AUG 16	B+22	4	0	3	7	158
AUG 17	B+23	4	0	3	7	165
AUG 18	B+24	3	0	3	6	171
AUG 19	B+25	3	0	3	6	177
AUG 20	B+26	3	0	2	5	182
AUG 21	B+27	3	0	2	5	187
AUG 22	B+28	2	0	2	4	191
AUG 23	B+29	2	0	2	4	195
AUG 24	B+30	1	0	2	3	198

SHIP: USS ETLAH (AN-79)

CREW SIZE: 36

GROUP: SALVAGE

MISSION: ETLAH arrived at Bikini on April 1, 1946, and as a member of the Salvage Unit, began to prepare for the operation. ETLAH was responsible for placing boarding teams on target vessels after the detonations. These boarding teams were to **conduct** initial inspections of some of the target vessels to determine **the amount** of physical damage sustained; and to what extent the target vessels were radiologically contaminated. ETLAH was also involved in placing buoys and anchoring target ships in the lagoon array, conducting diving operations, **and** towing the target vessels when necessary.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
		I July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.689 REM

Date unit departed Bikini: August 27, 1946 (BAKER + 33)

Ship contamination factor when departing Bikini: 4 (this **value** is for use with the nomograph in Figure B-5)

## FATH REPORT FOR THE USS ETLAH

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TIME PLACE REMARKS
             OBSERVE@ SHOT ABLE FROM A DISTANCE IN EXCESS OF 28 MIL
010900 2591M
              ES
011340 2591M ENTERED BIKINI LAGOON
011347 2501T ALONGSIDE LCI-549
011352 2501T LEAVING
                        LCI - 549
011404 24010 ALONGSIDE LCI-329
011418 24010 LEAVING LCI-329
011432 2301T ALONGSIDE LCI-327
011444 2301T LEAVING LCI-327
011447 2302H APPROACHED LCT-874 - GEIGER SOUR
011500 2302H ANCHORED IN VICINITY OF LST-133
011530 2302H LEAVE FOR USS PILOTFISH
011540 2203Y INSPECTED LST-661; USS TUNA; AND LCT-874 -- ALL GEIGER
              SOUR
011549 23030 ALONGSIDE PILOTFISH
011607 23030 LEAVING FILOTFISH
011617 2403E ALONGSIDE LCT-1113
011625 2403E LEAVING LCT-1113
011629 24031 ALONGSIDE LET-1 112
011655 2403I LEAVING LET-1112
011700 2403P ALONGSIDE LCT-1078
011704 2403P LEAVING LCT-1078
011705 2104J LYING TO OFF LST-220
011715 2104J UNDERWAY TO LST-545
011720 2205K ALONGSIDE LST-545
011749 2205K LEAVING
                       LST-545
011756 2104J PROCEEDING TO ANCHORAGE
011835 2694M ANCHOR IN BERTH "M"
012359 2694M PASSING
                         SUMMARY 0
012400 2694M "SUMMARY" IS A FICTITIOUS SHIP USED TO RECORD THE DOSE
              THE ETLAH RECEIVED WHILE ALONGSIDE TARGET SHIFS ON 1
              JULY
020700 2694M UNDERWAY FROM BERTH
020740 2203R FLACE BOARDING TEAM ABOARD USS TUNA
020751 2203R UNDERWAY FROM TUNA
020805 2302U PLACE BOARDING TEAM ON USS DENTUDA
020829 22021 PLACE TEAM ON USS SEARGVEN
020854 22036 PLACE TEAM ON LS6-661 BY MEANS OF A SMALL BOAT
020939 2104J PLACE TEAM ON LST-220 BY BOAT 021012 2202A PLACE TEAM ON LST-52 BY BOAT
021056 2302H PLACE TEAM ON LCI-874
021124 2301R PLACE TEAM ON LCI-332
021136 2301R UNDERWAY FOR ENYU ISLAND 021352 2793M ANCHOR OFF ENYU ISLAND
031308 2793M UNDERWAY FOR BERTH "M"
031431 2694M ANCHORED IN BERTH "M"
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27

USS ETLAH CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	<b>CUM</b> Total
JUL 1	A+0	1	0		1	1
JUL 2	A+1	2	0		2	3
JUL 3	A+2	0	0		0	3
JUL 4	A+3	0	0		0	3
JUL 5 TI	HRU 24	0	0			3
JUL 25	B+0	5	0	6	11	14
JUL 26	B+1	0	0	2	2	16
JUL 27	B+2	0	0	1	1	17
JUL 28	8+3	9	5	24	38	55
JUL 29	B+4	5	4	34	43	98
JUL 30	B+5	0	0	28	28	126
JUL 31	B+6	0	0	23	23	149
AUG 1	B+7	0	0	19	19	168
AUG 2	B+8	0	0		16	184
AUG 3	B+9	4	0	16	20	204
AUG 4	B+10	0	0	14	14	218
AUG 5	Et11	0	0	1 2	1 <b>2</b>	0
AUG 6	B+12	0	0	11	11	241
AUG 7	B+13	3	39	10	52	293
AUG 8	B+14	6	29	9	44	337
AUG 9	B+15	9	0	8	17	₹5.4
AUG 10	B+16	8	0	8	16	<b>37</b> 0
AUG 11	B+17	7	0	7	14	384
<b>AUG 12</b>	B+18	6	0	7	13	397
<b>AUG</b> 13	B+19	6	0	6	12	409
AUG 14	B+20	5	0	b	11	420
<b>AUG</b> 15	B+21	5	69	5	79	499
AUG 16	B+22	4	7 <b>4</b>	5	83	582
<b>AUG</b> 17	B+23	4	34	5	43	625
<b>AUG 18</b>	B+24	3	0	4	7	632
AUG 19	B+25	3	0	4	7	639
AUG 20	B+26	3	0	4	7	646
AUG 21	B+27	3	0	4	7	653
AUG 22	8+28	2	0	4	6	659
AUG 23	B+29	2	0	4	6	665
AUG 24	B+30	2	3	3	8	673
AUG 25	Bt31	2	0	3	5	678
AUG 26	B+32	1	0	3	4	682
AUG 27	B+33	0	4	3	7	689

SHIP: USS FALL RIVER (CA-1311

CREW SIZE: 817

GROUP: FLAGSHIP

MISSION: FALL RIVER, which was utilized throughout CROSSROADS as a command and staff support ship, arrived at Bikini on May 27, 1946, to prepare for the operation.

SHOT	DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIELD)	TYPE DETONATION
			July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.204 REM

Date unit departed Bikini: September 4, 1946 (BAKER + 41)

Ship contamination factor when departing Bikini: 0 (this value is for **use** with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS FALL RIVER

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TIME PLACE REMARKS
010900 2591M OBSERVED SHOT ABLE FROM A DISTANCE OF 19 MILES
011151 2591M ENTERED BIKINI LAGOON
011202 2692D ANCHORED IN BERTH 386
021020 2692D UNDERWAY TO BERTH 91
021147 2303F ANCHORED IN BERTH 91
042400 2303F ANCHORED AS BEFORE
250835 2591M OBSERVED SHOT BAKER FROM A DISTANCE OF 12 MILES
251058 2591M ENTERED BIKINI LAGOON
251106 2692D ANCHORED IN BERTH 386
260001 2692D ANCHORED AS BEFORE
281536 2692D UNDERWAY TO STATION 2 MILES OFF ENTRANCE TO BIKINI LAG
             OON
281555 2591M EXIT BIKINI LAGOON
291258 2591M REENTER BIKINI LAGOON
291319 2892D ANCHORED IN BERTH 386
300759 2692D UNDERWAY TO BERTH 91
300922 2303F ANCHORED IN BERTH 91
331415 2303F UNDERWAY TO BERTH 359
331506 2195Y ANCHORED IN BERTH 359
380757 2195Y UNDERWAY TO BERTH 91
380839 2303F ANCHORED IN BERTH 91
450757 2303F UNDERWAY FOR AREA 5 MILES SOUTHWEST OF BIKINI
450830 2591M EXITED BIKINI LAGDON
451615 2591M REENTERED BIKINI LAGOON
451659 2304S ANCHORED IN BERTH 56
471655 2304S UNDERWAY
471732 2591M DEPART LAGOON FOR KWAJALEIN
490716 2591M REENTERED BIKINI LAGOON
490811 2304S ANCHORED IN BERTH 56
561700 2304S UNDERWAY
561734 2591M DEPART BIKINI LAGOON FOR KWAJALEIN
630819 2591M REENTER BIKINI LAGOON
630905 2303F ANCHORED IN BERTH 91
661755 2303F UNDERWAY
461828 2571M DEPARTED BIKINI LAGOON FOR KWAJALEIN 04 SEP 1946
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USS FALL RIVER CALCULATED FILM BADGE DOSE (IN MREM)

CUM TOTAL		0	4	- ս	י נ	כח	n)	כע	LЭ	មា	) և <sup>-</sup>	) u	7 (	N N	46	9	α	MO F	) () ()	0 1 0	` C	1 O B	116	127	137	146	154	161	168	172	178	c∀ m	M m	186	190	194	197	199	201	203	204	204	- <b>-</b>	# 5 9 0	100 100	t <	400	† 5 0 () 1 ()	# 5 0 4 6	4000	4 ° 0	204
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SHIP: USS FLUSSER (DD-368)

CREW SIZE: 146

GROUP: SURFACE PATROL

MISSION: FLUSSER, as a member of the Surface Patrol Group was outfitted with special oceanographic and radiological equipment in order to conduct oceanographic surveys and perform radiological monitoring. She performed monitoring duties both inside and outside Bikini lagoon.

SHOT DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIHED)	TYPE DETONATION
	ABLE	l July 46 (0900)	23 KT	Air Burst (+520 feet)
	BAKER	25 July 46 (0835)	23 KT	Shallow Underwater (-90 feet)

- PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.
- RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.428 REM

Date unit departed Bikini: September 4, 1946 (BAKER + 41)

Ship contamination factor when departing Bikini: 4 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS FLUSSER

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2591M	2591M	15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5		192	503	50	2591M	2591M	20947	9	ru ru	59	ئ ت	Cu	.d •0	(A)	-0 ru	10 4 4	591	591	503	200	Ç.	2591M	25967	-O	MT653	2591M	1 1	PLACE
E PEDRA LARBAR VIA KWAJALEIN	E-ENTERED BIKINI LAGOON	D > IKINI L	ONCHORED AS SEFORE	CNCH-RED IN BERTH "J" NORTH	DERWAY FROM BERI	Ä	-ENTERED BIKINI	DEPARTED BIKINI LAGOON FOR KWAJALEIN	FRO	ANCHORED IN BERTH "A"	UNDERWAY FROM SEATH "Q"	) IN BERTH	Re ENTERE & SIKINI LAGDON	RTED BIK	NDERWA	D IN BERTH "I	4 TO	D Z wef	w ~	ED AT KWA	ANCHORED AT MEFORE	NCHORED IN BERTH	RE-ENTERED BIK NI LOGOON	EX TED BIKINI LAGOON FOR ORUK ISLAND	UNDERWAY FRom SERWH #342	ANCH-ReD N SERTH #342	ENTERED ≥IKINI LAGDON	●*SERVED SHOT ABLE	1 1	REMARKS
ENROUT																														

USS FLUSSER CALCULATED FILM BADGE DOSE (IN MREM

DATE	TIME	LAGOON WATER				CUM Total
JUL 1	At0		0		· <b></b>	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 T	<b>HRU 24</b>	0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	0	0	3	3	3
JUL 29	B+4	0	0	4	4	7
JUL 30	B+5	9	0	23	32	39
JUL 31		1 4	0	30	44	83
AUG 1		15	0	24	39	122
AUG 2	B+8	10	0	21	31	153
AUG 3	B+9	0	0	18	18	171
AUG 4	B+10	0	0	16	16	187
AUG 5	B+11	0	0	1 4	14	201
AUG 6	B+12	0	0	13	13	214
AUG 7	B+13	0	0	11	11	225
AUG B	B+14	4	0	10	14	239
	B+15	9	0	10	19	258
AUG 10	B+16	2	0	9	11	269
	B+17	0	0	8	8 10	277
AUG 12	B+18	2	0	8 7	13	287 700
AUG 13 AUG 14	B+19 B+20	6 5	0	7	12	300 312
AUG 15	B+20	5	0	6	11	
AUG 16	B+21	4	0	6	10	323 333
AUG 17	B+23	4	Ö	6	10	343
AUG 18	B+24	3	Ŏ	5	8	3 <b>5</b> 1
AUG 19	B+25	3	Ŏ	5	8	351 359
AUG 20	B+26	3	Ö	5	8	367
AUG 21	B+27	3	ō	4	7	374
AUG 22	B+28	2	Ö	4	6	3 <b>8</b> 0
AUG 23	B+29	2	Ó	4	6	386
AUG 24	B+30	2 2	Ō	4	6	392
AUG 25	B+31	1	Ō	4	5	397
AUG 26	B+32	Ō	0	4	4	401
AUG 27	B+33	0	0		3	404
AUG 28	B+34	0	0	3	3	407
AUG 29	B+35	0	0	3 3 3 3	3	410
<b>AUG</b> 30	B+36	0	0	3	3	413
<b>AUG</b> 31	B+37	0	0	3	3	416
SEF 1	B+38	0	0	3 3	3	419
SEP 2	B+39	0	0	3 3	3	422
SEP 3	B+40	0	0		3	425
SEP 4	B+41	0	0	3	3	428

SHIP: USS FULTON (AS-1 1)

CREW SIZE: 733

GROUP: SERVICE

MISSION: FULTON arrived at Bikini on May 23, 1946. Its primary mission was to provide traditional submarine tender support to USS SKIPJACK (\$\$-184), USS APOGON (\$\$-308), USS TUNA (\$\$-203), USS PARCHE (\$\$-384), USS SKATE 9\$\$-305), USS PILOTFISH (\$\$-386), USS \$\$EARAVEN (\$\$-196), and USS DENTUDA (\$\$-335). These submarines were employed in the 84 ship target array utilized at CROSSROADS.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-I support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.267 REM

Date unit departed Bikini: August 25, 1946 (BAKER + 31)

Ship contamination factor when departing Bikini: 2 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS FULTON

TIME PLACE	REMARKS
010900 2 <b>591M</b>	
011448 2591M	URFACE <b>ZERO</b> ENTERED BIKINI <b>LAGOON AFTER SHOT ABLE</b>
011512 2599N	ANCHORED IN BERTH 231
031515 2599N	PILOTFISH MOORED ALONGSIDE TO PORT
031515 2577N 031546 2599N	DENTUDA MODRED ALONGSIDE PILOTFISH
031630 2599N	SEARAVEN MOORED ALONGSIDE TO DENTUDA
031643 2599N	TUNA MOORED ALONGSIDE SEARAVEN
040900 2599N	ANCHORED AS BEFORE
250835 2591M	OBSERVED SHOT BAKER BEARING 235 DEGREES 14 MILES DISTA
200000 20711	NCE
300700 2 <b>591M</b>	
300735 2599N	ANCHORED IN BERTH 231
331508 2599N	UNDERWAY FOR <b>NEW ANCHORAGE</b>
331630 2692F	- 11
380902 2692F	uNDERWAY
381019 2 <b>599N</b>	ANCHORED IN BERTH 231
441025 2599N	ALONGSIDE DENTUDAZ
451302 2599N	LEAVING DENTUDA2
451500 2403 <b>B</b>	ALONGSIDE DENTUDAZ
511040 2403B	ALONGSIDE PARCHE2
511642 2403B	LEAVING PARCHE2
531200 2403B	
560800 2 <b>591M</b>	DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN 25 AUGUST 194
	6

USS FULTON CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM <b>TOTAL</b>
JUL 1	A+0	ij	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 TH	IRU 24	0	0			0
JUL 25	B+0	0	0	0	0	Ō
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	Ú	0	Q	0	0
JUL 29	Bt4	0	0	0	0	0
JUL 30	B+5	5	0	7	12	12
JUL 31	B+6	9	0	10	19	31
AUG 1	B+7	11	0	8	19	50
AUG 2	B+8	8	0	7	15	b5
AUG 3	B+9	0	0	b	b	71
AUG 4	B+10	0	0	5	5	76
AUG 5	B+11	0	0	5	5	81
<b>AUG</b> b	B+12	0	0	4	4	85
AUG 7	Et13	b	0	4	10	95
AUG 8	B+14	10	0	3	13	108
AUG 9	Bt15	9	0	3	12	120
AUG 10	B+16	8	0	3	11	131
AUG 11	Bt17	7	0	3	10	141
<b>AUG</b> 12	B+18	6	0	3	9	150
AUG 13	B+19	b	4	2	12	1b2
AUG 14	B+20	5	6	2	13	175
AUG 15	B+21	5	6	2	13	1 <b>88</b> 200
AUG / b	B+22	4	6	2	12	
AUG 17	B+23	4	6	2	12	212
AUG 18	B+24	3	5	2	10	222 232
AUG 19	B+25	3	5	2	10	232 247
AUG 20	B+26	3	10	2	15	247 255
AUG 21	B+27	3	4	1	8 5	255 260
AUG 22	Bt28	2	2	1	5 3	263
AUG 23	Bt29	2 2	0	1	3	266
AUG 24	B+30	0	0	1	3 1	267
AUG 25	B+31	U	0	1	1	207

SHIP: USS FURSE (DD-882)

CREW SIZE: 293

GROUP: NAVAL AIR

MISSION: FURSE was assigned to the Navy Air Group for Operation CROSSROADS. The primary duties of the FURSE were to provide support for drone and photographic operations.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.002 REM

Date unit departed Bikini: July 28, 1946 (BAKER + 3)

Ship contamination factor when departing Bikini: 0 (this value is for use with the nomograph in Figure B-5)

# PAIH REPORT FOR THE USS FURSE

*3 co + + + + + + + + + + + + + + + + + +	7 647 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	71436 71516 71636	260512 260540 260540	(J) (J) (J) (J)	00 00	7 1 2 2 3 4 1 2 5 0 3 1 2 4 1 2 5 0 3 1 2 5 0	021516 021746 021825	11841 11906 21445	T I HE
11 (A)	M	000 000	00000000000000000000000000000000000000	<b>1</b> 4 10 10	N N 0	000 000 400 4	2696N 2696N 2204U	591M 496J 496J	. m . co . co . c
NDERWAY TO EXIT LA COK DEPARTURE GF B 8 JUL 1946	XITING BIKINI LA600 EENTER BIKINI LA600	REENTER BIKINI LA600N ANCHORED IN BERTH "N" UNDERWAY FOR USS SAIDOR	ENTERING BIKINI LAGOON STOP AT USS KENNETH WHITING UNDERWAY TO EXIT LAGOON	RVED SHOT BAK OF 230 DEGRE	RED AS BEFOR	NDERWEAY FROM BERTH OORED ALONGSIDE USS W	MOORED TO USS CHICKASKIA UNDERWAY TO BERTH 54 A ANCHORED IN BERTH 54 A	ITERED BIKINI LASOON ICHORED IN BERTH 321 IDERWAY	

USS FURSE CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMENATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	A+0	0	y		0	0
JUL 2	A+1	1	0		1	1
JUL 3	A+2	1	0		1	2
JUL 4	At3	0	0		0	2
JUL 5 T	IRU 24	Ô	0			2
JUL 25	B+0	0	0		0	2
JUL 26	B+1	0	0		0	2
JUL 27	B+2	0	0		0	2
JUL 28	B+3	0	0		0	2

SHIP: USS GEORGE CLYMER (APA-27)

CREW SIZE: 270

GROUP: TRANSPORT

MISSION: CLYMER arrived at Bikini on June 1, 1946, to prepare for the operation. At CROSSROADS one of the primary duties of the several personnel transports such as CLYMER was to house the crews of the target ships during and following the two detonations. The crews of target ships that were subsequently sunk or rendered uninhabitable by Tests ABLE and BAKER continued living aboard the transport ships well after the detonations.

SHOT	DATA:	<u>TEST</u>	<u>D</u> .	A T I	<u>E</u> ( T	I	MYIHLD)	TYPE	DETONATION	
		ABLE BAKER					23 KT 23 KT		st (+520 feet) Underwater (-90	feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.248 REM

Date unit departed Bikini: August 20, 1946 (BAKER + 26)

Ship contamination factor when departing Bikini: 2 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS GEORGE CLYM

TIME	PLACE	REMARKS
010901	2591M	OBSERVED SHOT ABLE AT A DISTANCE OF 21 MILES
011630	2591M	ENTERED BIKINI LAGOON
011728	2297M	ANCHORED IN BERTH 300
021459	2297M	UNDERWAY TO SHIFT BERTHS
021525	2299L	ANCHORED IN BERTH 244
042400	22 <b>99</b> L	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER AT A DISTANCE GREATER THAN 18 MILE
		S
300554	2591M	ENTERED BIKINI LAGOON
300623	2198K	ANCHORED IN BERTH 262
331334	2198K	UNDERWAY FROM BERTH 262
331440	2095A	ANCHORED IN BERTH 333
381452	2095A	UNDERWAY FROM BERTH 333
331521	20970	ANCHORED IN BERTH 279
401026	20 <b>9</b> 70	EVAPORATORS INSPECTED AND FOUND RADIOLOGICALLY SAFE
401545	2097C	RADIOLOGICAL INSPECTION OF SHIP COMPLETED
450957	20970	UNDERWAY FROM BERTH 279
511818	2591M	DEPARTED BIKINI LAGOON ENROUTE TO PEARL HARBOR 20 AUG
		1946

USS GEORGE CLYMER CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 TI	HRU 24	0	0			0
JUL 25	BtO	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	0	0	0	i!	0
JUL 29	B+4	0	0	0	0	0
JUL 30	B+5	4	0	6	10	10
JUL 31	B+6	7	0	9	16	26
AUG 1	B+7	10	0	8	18	44
AUG 2	B+B	12	0	7	19	63
AUG 3	B+9	16	0	6	22	85
AUG 4	B+10	1 4	0	5	19	104
AUG 5	B+11	13	0	5	18	122
AUG 6	B+12	12	0	4	lb	138
AUG 7	B+13	3	0	4	7	145
AUG 8	B+14	10	0	3	13	158
AUG 9	B+15	9	0	3	12	170
AUG 10	B+16	8	O	3	11	181
AUG 11	B+17	7	0	3	10	191
AUG 12	B+18	6	0	3	9	200
AUG 13	B+19	6	0	2	8	208
AUG 14	B+20	5	0	2	7	215
AUG 15	8+21	5	0	2	7	222
AUG 16	B+22	4	0	2	6	228
AUG 17	B+23	4	0	2	6	234
AUG 18	B+24	3	0	2	5	239
AUG 19	B+25	3	0	2	5	244
AUG 20	B+26	2	0	2	4	248

SHIP: USS GUNSTON HALL (LSD-5)

CREW SIZE: 305

GROUP: SERVICE

MISSION: GUNSTON HALL arrived at Bikini on May 3, 1946, to prepare for CROSSROADS. As part of the dispatch boat pool unit, GUNSTON HALL provided small boats for the boat pool as well as for dispatch, mail service, inter-atoll freight and passenger service.

SHOT	OT DATA: <u>TEST</u>		DATE (TIME)	<u>YIELD</u>	TYPE DETONATION		
			1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)		

PATH REPORT: This report contains **the** geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All **days are** July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.211 REM

Date unit departed Bikini: August 25, 1946 (BAKER + 31)

Ship contamination factor when departing Bikini: 2 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS GUNSTON HALL

TIME FLACE	REMG S
010900 2 <b>591M</b>	DBSERVED SHOT ABLE
011827 2 <b>591M</b>	ENTERED BIKINI LAGOON
011910 2504Y	ANCHORED IN BERTH #94
021650 2504Y	UNDERWAY TO KWAJALEIN
021735 2591M	DEPCRIED BIKINI LAGON
040829 2591M	RE-ENTERED BIKINI LAGOON
040919 2504Y	ANCHORED IN BERTH #94
042400 2504Y	ANCHORED GS BEFORE
250835 2591M	OBSERVED SHOT BAKER WHILE ENROUTE TO RONGELAP
301446 2591M	ENTERED BIKINI LAGOON
301526 25049	ANCHORED IN BERTH #94
331646 2504Y	UNDERWAY TO SHIFT BERTHS
331722 2692A	ANCHORED IN BERTH "U"
352400 2692A	ANCHORED <b>AS BEFORE</b>
501720 2591M	EXITED BIKINI LAGOON - ENROUTE KWAJALÆIN
520821 2591M	<b>re-entered</b> BIKINI <b>lagoon</b>
561714 2591M	DEPARTED BIKINI <b>LAGOON ON</b> 25 <b>AUGUST</b> 1946 - ENROUTE KWA
	JALEIN

USS GUNSTON HALL CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	C5NTAtlINATION	DAILY <b>TOTAL</b>	TOTAL
JUL 1	At ()	0	0		y	0
JUL 2	A+1	0	0		0	Ų.
JUL 3	A+2	0	0		Ô	ō
JUL 4	A+3	0	0		0	Ü
JUL 5 TH		0	0			0
1111 05	DιA		٥	0	۸	Λ
JUL 25	B+0	0	0 0	0	0	() ()
JUL 26 JUL <b>27</b>	B+1	0	0	0	0	0
JUL 27 JUL 28	B+2 B+3	0	0	0	0 0	0
JUL 29	B+4	0	0	0	0	Û
JUL 27	B+5	4	0	3	7	
JUL 31	B+6	12	0	10	22	7 29
AUG 1	B+7	14	0	8	22	51
AUG 2	B+B	10	0	7	17	68
AUG 3	B+9	0	Ö	6	6	74
AUG 4	B+10	0	Ö	5	5	79
AUG 5	B+11	Õ	0	5	5	84
AUG 6	B+12	Ŏ	Ö	4	4	88
AUG 7	B+13	6	Ö	4	10	98
AUG 8	B+14	10	0	3	13	111
AUG 9	B+15	7	0	3	1 2	123
AUG 10	B+16	8	0	3	11	134
AUG 11	B+17	7	0	3	1.0	144
AUG 12	8+18	<del>ይ</del>	0	3	9	153
AUG 13	B+19	6	0	2	8	161
AUG 14	Вt	5	0	2	7	158
AUG 15	B+21	5	0	2	7	175
AUG 1 b	B+22	4	0	2	6	181
AUG 17	B+23	4	0	2	6	187
AUG 18	B+24	3	0	2	5	192
AUG 19	B+25	2	0	2	4	196
AUG 20	B+26	0	0	2	2	198
AUG 21	B+27	1	0	1	2	200
AUG 22	B+28	2	0	1	3 7, 3	203
AUG 23	B+29	2	0	1	<u>,</u>	2
AUG 24	B+30	2	0	1		9
AUG 25	B+31	1	0	1	2	211

SHIP: USS GYPSY (ARSD-1)

CREW SIZE: 77

GROUP: SALVAGE

MISSION: GYPSY was assigned to the salvage unit and its duties included towing target vessels, performing underwater work utilizing divers, and general salvage work. From July 10 through July 24, GYPSY remained in Bikini Lagoon performing routine activities.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		ABLE BAKER	1 July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.516 REM

Date unit departed Bikini: September 5, 1946 (BAKER + 42)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS GYPSY

TIME	PLACE	REMARKS
010900	2591M	ENROUTE FROM PEARL HARBOR TO KWAJALEIN AT TIME OF SHOT ABLE - DID NUT ENTER LAGOON AFTER SHOT ABLE (UNTIL 9 JULY)
051200	9999A	PASSING SUMMARY 5 PLUS 0
051201	9999A	SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARGET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 JULY THROUGH 24 JULY
	9999A	ALONGSIDE USS APOGON FOR 2 HRS 3 MIN
211200		ALONGSIDE USS DENTUDA FOR 1 H R 21 MIN
221200	9999A	ALONGSIDE USS DENTUDA FOR 1 HOUR
	9999A	ALONGSIDE USS TUNA FUR 2 HRS 15 MIN
	2591M	DESERVED SHOT BAKER FROM ABOUT 12 MILES TO THE SOUTHEA ST
251130	2591M	ENTERED BIKINI <b>LAGDON</b>
251210	27935	ANCHORED OFF ENYU ISLAND - L.TAN. ENYU 24 DEG "A" 151 D E G (NEAR BERTH "SUGAR")
260001	27935	ANCHORED AS <b>BEFORE</b>
280958	2793S	UNDERWAY FROM NEAR BERTH "SUGAR"
	2100P	ARRIVED VICINITY OF USS DENTUDA
281135	2100P	BEGAN HEADING TOWARD USS PALMYRA
281200	26950	LAYING OFF USS PALMYRA
281305	26950	DERWAY T <b>O</b> A H <b>O</b> R <b>A</b> GE
	27935	ANCHORED IN BERTH "SUGAR"
281610	2793S	UNDERWAY TO DISCHARGE TWO ANCHORS FOR MOORING USS DEN?
281838	1792M	ANCHORED - "A" 90 DEG "B" 66 DEG
291229	1792M	UNDERWAY TO RECOVER SUBMARINE ANCHORS IN TARGET AREA
291400	2100R	BEGAN RECOVERY OPERATION
	2100R	PROCEEDING TO VICINITY ION ISLAND (ANCHOR RECOVERED)
291555	2798W	DISCHARGED ANCHOR - IN LEE OF ION ISLAND - FEARING 148
		DEG FROM B; DISTANCE 1100 YARS
291620	2798W	PROCEEDING TO RECOVER SECOND ANCHOR
291830	2697N	CHO D - "B"99 DEG L.TAN. ENYU ISLAND 141.5 DEG "A" 163 DEG
300400	2597N	D E RWAY
300705	20945	LYING TO OFF USS RECLAIMER
300749	20948	UNDERWAY FOR USS SEARAVEN
300824	2199D	ALONGS I DE SEARAVEN1
300840	2199D	LEAVING SEARAVEN1
300841	2199D	GEIGER METER READING ABOVE TOLERANCE
300910	2199D	BEGAN WASH I NG DOWN SEARAVEN
	2199D	UNDERWAY AFTER COMPLETING WASHING
	27 <b>9</b> 3M	ANCHORED IN LEE OF ENYU ISLAND "A" 159 DEG "B" 5 DE
320556	2793M	UNDERWAY FROM ANCHORAGE
320640	2199D	

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320725 2199D LEAVING
                        SEARAVEN1
321020 2798L
              DISCHARGED ANCHORS IN LEE OF ENVIOLENCE "B" 148 DEG
              "A" 172 DEG
321145 2199D
              ALONGSIDE SEARAVENI
321540 2199D
             LEAVING
                        SEARAVEN1
              ANCHORAGE IN BERTH OFF ENYU ISLAND - "B" 5 DEG TOVER
321618 27931
              MIDDLE ENYU 70 DEG "A" 163 DEG
330915 2793I
              UNDERWAY TO SHIFT BERTHS
330931 2795A
              ANCHORED - "8" 31 DEG "A" 165 DEG L. TAN. ENYU ISLAND
              128 DEG
331721 2795A
             UNDERWAY TO SHIFT BERTHS
331810 1894F
              ANCHORED IN BERTH #376
341055 1894F
              UNDERWAY TO SALVAGE ANCHORS
341355 2199A
             ANCHORED IN AREA OF USS TUNA
341445 2199A
              UNDERWAY TO AREA OF USS DENTUDA
341455 2894H
             ANCHORED IN AREA OF USS DENTUDA
342114 2894H
             UNDERWAY TO ION ISLAND
342215 2797M LYING TO OFF NORTH SIDE OF ION ISLAND
350025 2797M UNDERWAY TO ANCHORAGE
350114 1894F
             ANCHORED SOUTH OF NUMBERED BERTHS NEAR BERTH #376
352400 1894F ANCHORED AS BEFORE
390805 2199D ALONGSIDE SEARAVENI
391122 2199D LEAVING
                        SEARAVEN1
431108 2894H ALONGSIDE DENTUDA2
431150 2894H LEAVING
                        DENTUDA2
441005 2894H ALONGSIDE SKATE2
441037 2894H
             LEAVING
                        SKATE?
441357 2302D ALONGSIDE LCT-874
442045 22011 LEAVING
                        LCT-874
520757 2201Y ALONGSIDE NEW YORK2
521600 2201Y LEAVING
                        NEW YORK2
540825 1900B ALONGSIDE BUTTE
541559 1900B LEAVING
                        BUTTE
641907 2200K
             ALONGSIDE
                       SKTPJACK
651946 2200K LEAVING
                        SKIPJACK
660745 2504V ALONGSIDE LCT-1113
660824 2504V LEAVING
                        LET-1113
671918 2591M DEPARTED BIKINI LAGOON OIN 5 SEPTEMBER 1946 WITH USS S
              KIPJACK IN TOW - ENEOUTE KWAJALEIN
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USS GYPSY CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIF <b>CONTGMENAT</b> ION		CUM TOTAL
JUL 1	At0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	At3	0	0		0	0
JUL 5 T	HRU <b>24</b>	Û	0			0
JUL 25	Bt0	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	3	0	11	14	1 4
JUL 29	B+4	3	0	20	n <del>y</del>	37
JUL 30	B+5	2	1	26	29	66
JUL 31	B+6	0	0	21	21	87
AUG 1	B+7	4	15	19	38	125
AUG 2	B+8	0	0	12	12	137
AUG 3	B+9	2	0	16	18	155
AUG 4	B+10	0	0	1 4	14	169
AUG 5	B+11	0	0	12	12	181
AUG 6	B+12	2	0	11	13	194
GUG 7	B+13	1 1	0	10	21	215
AUG a	B+14	10	4	9	23	238
AUG 9	B+15	9	0	8	17	255
AUG 10	B+16	8	0	8	16	271
AUG 11	B+17	7	0	7	1 4	285
GUG 12	B+18	6	0	7	13	298
AUG 13	B+19	5	17	U	28	326
AUG 14	B+20	5	0	6	11	337
AUG 15	B+21	5	0	5	10	347
AUG 16	B+22	4	0	5	9	356
AUG 17	B+23	4	0	5	9	365
GUG 18	B+24	3	0	4	7	372
GUG 19	B+25	3	0	4	7 7	379 307
AUG 21	B+26	3 3	0 7	4	-	386
	B+27 B+28	-		4	14	400 406
AUG 22- AUG 23	8+29	2 2	0	4	6 10	416
AUG 23	B+30	2	<b>4</b> O	4	5	421
AUG 25	B+31	2	0	3 3	5 5	421
GUG 26	B+32	1	0	3	4	430
AUG 27	B+33	1	Ö		4	434
GUG 28	B+34	1	0	3 3	4	43B
GUG 29	B+35	1	0		4	442
AUG 30	B+36	1	ő	3 3	4	446
GUG 31	B+37	1	ő	3	4	450
SEP 1	B+3B	0	0	2	2	452
SEP 2	B+39	ŏ	11	2	13	465
SEP 3	B+40	Ö	45	2	47	512
SEF 4	B+41	Ö	0	2	2	514
SEP 5	B+42	Ö	ő	2	2	516
_	. —	-		_		

SHIP: USS HAVEN (AH-12)

CREW SIZE: 476

GROUP: TECHNICAL

MISSION: HAVEN arrived at Bikini on June 12, 1946, and was responsible for overseeing the medical aspects of the CROSSROADS experiments. The ship housed the radiological safety section which was tasked with protecting personnel from hazards that may have resulted from **the** nuclear explosions. After **the** detonations, samples of water, foodstuff, clothing, **drugs and general** storekeeping items were tested in the radio-chemistry unit aboard HAVEN.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION	
	ABLE BAKEF	1 July 46 ( <b>0900)</b> R 25 July 46 ( <b>0835)</b>	<b>23</b> KT <b>23</b> KT	Air Burst (+520 feet) Shallow Underwater (-90 t	feet)

PATH REPORT: This report contains the geographic locations of CTJF-I support vessels within Bikini lagoon. The time is in Day-Hour-Minutes **and** begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office Misc. **Chart** number 11854, portions of which are **reproduced** in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is **a day-by-day** compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated **dose** received while at Bikini: 0.250 REM

Date unit departed Bikini: August 25, 1946 (BAKER + 31)

Ship contamination factor when departing Bikini: 2 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS HAVEN

TIME	PLACE	REMARKS
011417	2591V	ENTERED BIKINI LAGOON
011504	24026	ANCHORED BERTH 131A
021046	24026	UNDERWAY FROM BERTH 131A
021123	2304B	ANCHORED IN BERTH 34A
040000	2304B	ANCHORED IN BERTH 34A
251458	2591W	ENTERED BIKINI LAGOON AFTER SHOT BAKER
251519	2594T	ANCHORED BERTH ROGER
260001	2594T	ANCHORED AS BEFORE
281610	25941	LEAVE FOR BERTH C
281544	2293A	ANCHORED BERTH C
300943	2293A	LEAVE BERTH C
301035	2304B	ANCHORED BERTH 34A
331508	2304B	LEAVE 34A FOR BERTH 383
331650	2294M	ANCHORED BERTH 383
380940	2294M	LEAVE 383 FOR BERTH 92
381035	2403B	ANCHORED BERTH 92
450906	2403B	LEAVE 92 FOR BERTH 111
450851	2303V	ANCHORED BERTH 111
561603	2303V	DEPARTED BIKINI LAGGON ON 25 AUGUST 1946 ENROUTE KWAJA
		LEIN ATOLL
561648	2591M	LEAVING LAGOON ENTRANCE

USS HAVEN CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON Water	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM Total
JUL 1	A+0	2	0		2	2
JUL 2	A+1	5	0		5	7
JUL 3	A+2	0	0		0	7
JUL 4	A+3	0	0		0	7
JUL 5 TH	<b>RU 24</b>	0	0			7
JUL 25	Bto	0	0	0	0	7
JUL 26	B+1	0	0	0	0	7
JUL 27	B+2	0	0	1	1	8
JUL 28	B+3	1	0	3	4	12
JUL 29	B+4	0	0	2	2	14
JUL 30	B+5	10	0	7	1 7	31
JUL 31	B+6	17	0	10	27	58
AUG 1	B+7	17	0	8	25	83
AUG 2	B+8	11	0	7	18	101
AUG 3	B+9	0	0	6	6	107
AUG 4	B+10	0	0	5	5	112
AUG 5	B+11	0	0	5	5	117
AUG 6	B+12	0	0	4	4	121
AUG 7	B+13	6	0	4	10	131
AUG 8	B+14	10	0	3	13	144
AUG 9	B+15	9	0	3	12	156
AUG 10	B+16	8	0	3	11	lb7
AUG 11	Et17	7	0	3	10	177
AUG 12	Bt18	6	0	3	9	186
AUG 13	Bt19	6	0	2	8	194
AUG 14	Bt20	5	0	2	7	201
AUG 15	B+21	5	0	2	7	208
AUG 16	B+22	4	0	2	6	214
AUG 17	B+23	4	0	2	6	220
AUG 18	B+24	3	0	2	5	225
AUG 19	B+25	3	0	2	5	230
AUG 20	B+26	3	0	2	5	235
AUG 21	B+27	3	0	1	4	239
AUG 22	B+28	2	0	1	3	242
AUG 2.3	B+29	2	0	1	3 3	245
AUG 24	B+30	2	0	1		248
AUG 25	B+31	1	0	1	2	

SHIP: USS HENRICO (APA-45)

CREW SIZE: 424

GROUP: TRANSPORT

MISSION: HENRICO arrived at Bikini in early June 1946 and began to prepare for the operation. HENRICO was a member of Temporary Task Unit 1.2.8, which was involved in troop transport and radiation safety. At CROSSROADS one of the primary duties of the several personnel transports such as HENRICO was to house the crews of the target ships during and following the two detonations. The radiological safety portion of HENRICO's duties involved HENRICO serving as the mother ship for several smaller radiological safety craft.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
			July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.226 REM

Date unit departed Bikini: August 16, 1946 (BAKER + 22)

Ship contamination intensity when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS HENRICO

TIME PLACE	REMARKS
011110 2591M	OPERATING NEAR BIKINI LAGOON ENTRANCE WHILE DISCHARGIN
	G RADIOLOGICAL PATROL BOATS
011703 2591M	ENTERED BIKINI LAGOON ENROUTE TO ANCHORAGE
011740 2096H	ANCHORED !N BERTH 315
021335 2096H	UNDERWAY TO SHIFT BERTHS
021402 2000E	GNCHDEED IN BERTH 219
042400 2000E	ANCHORED GS BEFORE
051200 9999A	PASSING SUMMARY 5 FLUS 0
051201 9999A	SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARG
	ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
071000 0000A	ULY THROUGH 24 JULY
071200 9999A 081200 9999A	ALONGSIDE USS SALT LAKE CITY FOR 15 HRS 19 MIN ALONGSIDE USS SALT LAKE CITY FOR 24 HOURS
091200 9999A	ALONGSIDE USS SALT LAKE CITY FOR 24 HOURS
101200 7777H	ALONGSIDE USS SALT LAKE CITY FOR 16 HRS 25 MIN
251008 2591M	OPERATING NEAR <b>LAGOON ENTRANCE</b> WHILE DISCHGKGING RADIO
201000 207111	LOGICAL FATROL BOATS AFTER TEST BAKER
251445 2591M	ENTERED BIKINI LAGOON AFTER SHOT BAKER
251542 2593K	ANCHORED IN BERTH SUGAR
260001 2593K	ANCHORED GS BEFORE
281528 2593K	UNDERWAY TO SHIFT BERTHS
281554 23930	CHANNEL BUDY #3 TO STARBOARD
281610 21930	ANCHORED 500 YARDS VEST OF ANCHORAGE CHARLIE
3007 <b>55 21930</b>	UNDERWAY <b>to shift berths</b>
300834 <b>2199U</b>	GNCHOEED IN BERTH 242
301720 21990	UNDERWAY <b>TO</b> SHIFT BERTHS
301815 2205F	ANCHORED 300 YARRDS WEST OF BERTH 21
310939 2205F	UNDERWAY
31094B 2105M	ANCHORED
311250 210 <b>5M</b>	UNDERWAY
311313 2205E	ANCHORED IN BERTH 22A
331200 2205E	UNDERWAY FOR NEW ANCHORAGE
331422 20 <b>95</b> M	ANCHORED IN BERTH <b>754</b>
471634 2591M	DEFARTED BIKINILAGOON ENROUTE PEARL HARBOR 16 GUGUST
	1446

USS HENRICO CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIF CONTAMINATION	DAILY <b>TOTAL</b>	curl TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	2	Ó		2	2
JUL 3	A+2	0	0		0	2
JUL 4	2+A	0	0		Ō	2
JUL 5 TO	HRU 24	0	0			2
JUL 25	Bt0	0	0	0	0	2 2
JUL 26	B+1	0	0	0	0	2
JUL 27	B+2	0	0	0	0	2 2 2
JUL 28	8+3	0	0	0	0	2
JUL 29	B+4	0	0	0	0	
JUL 30	B+5	7	0	7	1 4	lb
JUL 31	B+6	1 4	0	10	24	40
<b>AUG</b>	B+7	15	0	8	23	<b>6</b> 3
AUG 2	8+4	1 4	0	7	21	84
AUG 3	B+9	16	0	6	22	106
AUG 4	B+10	1 4	0	5	19	125
AUG 5	B+11	0	Ō	5	5	130
AUG 6	B+12	0	0	4	4	134
AUG 7	B+13	6	0	4	10	144
AUG 8	Et14	10	0	2	13	157
AUG 9	B+15	9	0	2	12	1b9
AUG 10	B+16	8	0	3	<b>i</b> i	180
AUG 11	B+17	7	0	3	10	190
AUG 12	B+18	6	0	3	9	199
AUG 13	B+19	6	0	2	8	207
A U G 14	B+20	5	0	2	7	214
AUG 15	B+21	5	0	2	7	221
AUG lb	B+22	3	0	2	5	22 b

SHIP: USS HESPERIA (AKS-13)

CREW SIZE: 139

GROUP: SERVICE

MISSION: HESPERIA arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As part of the Repair and Service Unit, HESPERIA provided provisions or logistical support (fuel and water) to the other support ships participating in the operation.

SHOT	DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIELD	TYPE DETONATION	
			1 July 46 <b>(0900)</b> 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90	feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.245 REM

Date unit departed Bikini: August 23, 1946 (BAKER + 29)

### PATH REPORT FOR THE USS HESPERIA

TIME P	LACE	REMARKS
010900 2	591M	OBSERVED SHOT ABLE FROM KWAJALEIN
021117 2	591M	ENTERED BIKINI LAGOON AFTER SHOT ABLE
021222 2	599K	ANCHORED IN BERTH #230
031234 2	599K	UNDERW TO SHIFT YERTHS
031349 2	402W	ANCHORED IN BERTH #145
040900 2	402W	ANCHORED AS BEFORE
250835 2	591M	OBSERVED SHOT BAKER BEARING 272 DEGREES 15 MILES
300756 2	591M	ENTERED BILKINI LAGOON AFTER SHOT FAKER HAVING SPENT 5
		DAYS AT ANCHOR IN RONGELAP ATOLL
300 <b>85</b> 7 2	402W	ANCHORED IN BERTH #145
301026 2	402W	UNDERWAY TO SHIFT BERTHS
301100 2	402H	ANACHORED IN BERTH #131A
331701 2	402H	UNDERWAY TO SHIFT BERTHS
331749 2	5940	ANCHORED IN BERTH PAPA
331847 2	5940	SHIFTED BERTHS 300 YARDS NORTH
331852 2	595T	ANCHORED IN BERTH #369
380826 25	595T	UNDERWAY
380926 2	402H	ANCHORED IN BERTH #131A
450949 2	402H	UNDERWAY TO SHIFT BERTHS
451020 2	500M	ANCHORED IN BERTH 191
530900 2	500M	SHIP WAS INSPECTED BY RADSAFE SHIP CLEARING BOARD OF J
		TF-1 FOR RADIOACTIVITY. SHIF CLEARANCE WAS GIVEN WITH
		EXCEPTION OF EVAPORATORS.
541355 2		UNDERWAY FORM BERTH #191
541440 2	591M	DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN 23 AUGUST 194

USS HESPERIA CALCULATED FILM BADGE DOSE (IN MREM)

DATE				SHIP CONTAMINATION		
JUL 1	A+0	0	0		Δ	9
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	Ü		Ú.	0
JUL 4	A+3	0	0		Ú.	0
JUL 5 TH	IRU 24	0	Û			0
JUL 25	B+0	0	0	Ç	0	0
JUL 26	B+1	U	0	Q	0	)
JUL 27	E+2	0	0	0	Q.	0
JUL 28	B+3	()	Û	0	0	0
JUL 29	B + 4	0	0	0	0	0
JUL 30	B+5	1 Ô	Ó	9	19	1 9
JUL 31	B+6	16	0	11	27	46
AUS 1	B+7	16	0	9	25	71
AUG 2	B + 8	1 1	0	3	19	90
AUG 3	B+9	0	0	7	7	97
AUG 4	P+10	0	0	ć	6	103
AUG 5	B+11	0	0	5	5	108
AUG 6	B+12	O	0	5	5	113
AUG 7	B+13	7	0	4	1 1	124
AUG 8	B+14	10	0	4	1 4	138
AUG 9	B+15	9	0	4	13	151
AUG 10	B+16	8	0	3	11	162
AUG 11	B+17	7	0	2	10	172
AUG 12	B+18	4	Q.	3	9	181
AUG 13	B+19	6	0	3 3	9	190
AUG 14	B+20	5	0		8	198
AUG 15	B+21	5	0	2 2	7	205
AUG 16	B+22	4	0		6	211
AUG 17	B+23	4	0	2 2	á	217
AUG 18	B+24	3	Ú	4	5	222
AUG 19	B+25	3	0	2 2 2 2	5	227
AUG 20	B+25	3	0	2	5	232
AUG 21	8+27	3	0	<u> </u>	5	237
AUG 22	B+28	2	0	$\frac{2}{2}$	4	241
AUG 23	B+29	2	0	$\tilde{\mathcal{L}}$	4	245

SHIP: USS INGRAHAM (DD-694)

CREW SIZE: 237

GROUP: SURFACE PATROL

MISSION: INGRAHAM, as a member of the Surface Patrol Group was outfitted with special oceanographic and radiological equipment in order to conduct oceanographic surveys and perform radiological monitoring. She performed monitoring duties both inside and outside Bikini lagoon.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
			July 46 <b>(0900)</b> 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B- 1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.505 REM

Date unit departed Bikini: August 10, 1946 (BAKER + 16)

### PATH REPORT FOR THE USS INGRAHAM

	PLACE	REMARKS
010900	2591M	OPERATING IN AREA NORTH OF BIKINI ATOLL NEAR POINT VIC
021216	2501M	TOR DURING ABLE SHOT SIGHTED ENYU ISLAND 10 MILES
021218	2591M	
021234		ANCHORED IN BERTH #344
040900		ANCHORED AS BEFORE
	2591M	
	9692D	
261552	9692D	UNDERWAY
261605	9793U	ANCHORED NEAR ERIK ISLAND TO SOUTH OF LAGOON
261729	9793U	UNDERWAY TO INVESTIGATE OIL SLICK 2 MILES NORTH OF NAN
		U ISLAND
261848		IN DIL SLICK <b>between nanu and</b> YURO ISLANDS
	0219M	ENROUTE FOR BIKINI LAGOON ENTRANCE
262000		AS BEFORE
262200		AS BEFORE
		ENTERING LAGOON
		GNCHORED NEAR BERTH SUGAR
	2593K	
	2292K	
300953		UNDERWAY TO REFUEL ALONGSIDE USS ENGREE
	2695M 2695M	
301153 3011 <b>5</b> 7		ANCHORED IN BERTH NAN
301258		UNDERWAY
301342		MOORED ALONGSIDE USS DIXIE
310703		UNDERWAY FOR NEW BERTH
310734		ANCHORED IN BERTH #189
	2400B	
330937	2591M	EXITING LAGOON
350943	2591M	RE-ENTERING THE LAGOON
351007	21920	ANCHORED IN <b>BERTH KING</b>
380928		UNDERWAY
		GNCHORED IN BERTH #189
	2400B	
410820	2591M	DEFARTED BIKINI LAGOON ENROUTE SAN DIEGO VIA FEARL HAR
		BOR 10 AUGUST 1946

USS INGRAHAM CALCULATED FILM BADGE DOSE ( IN MREM)

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
лиц 1	At0	0	0		0	0
JUL 2	A+1	0	0		0	Ō
JUL 3	A+2	0	0		Ö	Ó
JUL 4	A+3	0	0		0	ō
JUL 5 T	HRU 24	0	0		•	0
JUL 25	Bt()	0	0	0	0	0
JUL 26	B+1	32	0	<b>35</b>	67	67
JUL 27	B+2	0	0	87	8 7	154
JUL 28	B+3	0	0	52	52	206
JUL 29	B + 4	0	0	36	36	242
1 <b>∐</b> L 30	B+5	3	0	29	32	274
JUL 31	B+6	1.0	0	29	39	313
AUG 1	B+7	14	0	24	38	351
AUG 2	B+8	5	0	21	26	377
AUG 3	B+9	0	0	18	18	3 <b>95</b>
AUG 4	B <b>t</b> 10	0	0	16	16	411
AUG 5	B+11	0	0	1 4	14	425
AUG 6	B+12	0	0	13	13	438
AUG 7	B+13	5	0	11	17	455
AUG 8	B+14	10	0	10	20	475
AUG 9	B+15	9	0	10	19	494
AUG 10	B+16	2	0	9	11	505

SHIP: USS JAMES M. GILLISS (AGS-13)

CREW SIZE: 40

GROUP: SURVEY

MISSION: JAMES M. GILLIS arrived at Bikini prior to the first detonation on July 1, 1946. As part of the Survey Unit, its mission included surveying the probable effects of the nuclear tests on fish and other wildlife and conducting an oceanographic survey to determine the character of the ocean currents in and around Bikini Atoll.

SHOT DATA:	TEST DATE (TIME)	YIELD	TYPE DETONATION
	ABLE 1 July 46 (0900)	23 KT	Air Burst (+520 feet)
	BAKER 25 July 46 (0835)	23 KT	Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.202 REM

Date unit departed Bikini: August 20, 1946 (BAKER + 26)

### PATH REPORT FOR THE USS JAMES M GILLISS

TIME	PLACE	REMARKS
010900	2591M	ANCHORED WOTHO ATOLL AT TIME OF SHOT ABLE
041430	2591M	ENTERED BIKINI LAGOON
041540	26958	MOGRED ALONGSIDE WILDCAT
041635	26955	UNDERWAY
041658	2699C	ANCHORED BERTH #207A
250835	2591M	ANCHORED AT WOTHO ATOLL AT TIME OF SHOT BAKER
351330	2591M	ENTERED BIKINI LAGOON
351406	2192J	ANCHORED
511140	2591M	DEPARTED BIKINI LAGOON 20 AUGUST 1946 - ENROUTE PEARL
		HARBOR

USS JAMES M GILLISS CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON <b>WATER</b>	TARGET SHIPS	SHIP CONTAMINATION		CUM <b>TOTAL</b>
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 T	HRU 24	0	0			0
JUL 25	BtO	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	Ò	0	0
JUL 28	B+3	0	0	0	0	0
JUL 29	B+4	0	0	0	0	0
JUL 30	8+5	0	0	0	0	0
JUL 31	B+6	0	0	Û	0	0
AUG 1	B+7	0	0	0	0	0
AUG 2	8+8	0	0	0	0	0
	B+9	0	0	0	0	0
AUG 4	B+10	0	0	0	0	0
AUG 5	B+11	0	0	0	0	Ö
AUG 6	B+12	0	0	0	Û	ij
AUG 7	B+13	7	0	14	21	21
AUG 8	B+14	10	0	13	23	44
AUG 9	B+15	9	0	12	21	65
AUG 10	B+16	8	0	11	19	84
AUG 11	B+17	7	0	10	17	101
AUG 12	B+18	6	0	9	15	116
AUG 13	B+19	6	0	9	15	131
AUG 14	8+20	5	0	8	13	144
AUG 15	B+21	5	0	8	13	157
AUG 16	B+22	4	0	7	11	1b8
AUG 17	B+23	2	0	7	9	177
AUG 18	B+24	3	0	b	9	186
AUG 19	B+25	3	0	b	9	195
AUG 20	B+26	1	0	b	7	202

SHIP: USS JOHN BLISH (AGS-10)

CREW SIZE: 48

GROUP: SURVEY

MISSION: JOHN BLISH arrived at Bikini Lagoon on March 16, 1946, to prepare for the operation. As part of the Survey Unit, its mission included surveying the probable biological effects of the atmospheric nuclear tests on fish and other wildlife and conducting an oceanographic survey to determine the character of the ocean currents in and around Bikini Atoll.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins I July 1946. All days are July (e.g., I Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.335 REM

Date unit departed Bikini: August 20, 1946 (BAKER + 26)

### PATH REPORT FOR THE USS JOHN BLISH

TIME PLACE	REMARKS
010900 2591M	OBSERVED SHOT ABLE BEARING 290 DEGREES
041440 2591M	ENTERED BIKINI LAGOON
041524 2600K	ANCHORED - "B"149 DEG "C" 30 DEG
0 <b>424</b> 00 2600K	ANCHORED AS BEFORE
250835 <b>2591M</b>	ANCHORED IN RONGELAP LAGOON AT TIME OF SHOT BAKER
320602 2 <b>591M</b>	ENTERED BIKINI LAGOON
320 <b>655</b> 2304H	ANCHORED - "C" 130 DEG "B" 149 DEG
320840 2304H	UNDERWAY TO SURVEY BOTTOM
320 <b>9</b> 00 2001Y	(ESTIMATED) SAMPLING LOCATION
321435 2001Y	UNDERWAY FOR ANCHORAGE
321442 2600P	ANCHORED "B" 148.5 DEG "C" 24.5 DEG "A" 166.5 DEG
330831 2600P	UNDERWAY TO TAKE BOTTOM SAMPLES
330 <b>8</b> 50 2001Y	(ESTIMATED) SAMPLING LOCATION
331752 2001Y	UNDERWAY FOR ANCHORAGE
331807 2192Y	ANCHORED - R.TAN. ENYU IS. 91 DEG L.TAN ENYU 67 DEG
	"B" 51 DEG "C" 28 DEG
340830 21 <b>9</b> 2Y	UNDERWAY FROM ANCHORAGE TO TAKE BOTTOM SAMPLES
340850 2001Y	(ESTIMATED) SAMPLING LOCATION
341710 20017	UNDERWAY TO ANCHORAGE
341732 2192Y	ANCHORED "B" 50 DEG BUOY #2 102 DEG BUOY #1 113 DEG
351005 2192Y	UNDERWAY FOR USS WILDCAT
351038 24945	MOORED PORT SIDE TO USS WILDCAT
351138 24945	UNDERWAY FROM USS WILDCAT
351154 2192M	ANCHORED - "B" 50 DEG "C" 27 DEG BUOY #1 114 DEG
352400 2192M	ANCHORED AS BEFORE
511138 2591M	DEPARTED BIKINI LAGOON ON 20 AUGUST 1946 - ENROUTE KWA
	JALEIN

USS JOHN BLISH CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP <b>CONTAMENATION</b>	DAILY TOTAL	CUM Total
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 TH	<b>RU 24</b>	0	0			0
JUL 25	Bt0	0	0	0	Ō	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+2	0	0	0	0	0
JUL 29	B+4	0	0	0	0	0
JUL 30	B+5	0	0	0		0
JUL 31	B+6	0	0	0	0	0
AUG 1	B+7	10	0	22	32	32
AUG 2	B+8	10	0	26	36	88
AUG 3	B+9	10	0	22	32	100
AUG 4	B+10	6	0	20	26	126
AUG 5	B+11	0	0	17	17	143
AUG 6	B+12	0	0	15	15	158
AUG 7	B+13	0	0	1 4	1 4	172
AUG 8	B+14	5	0	13	18	190
AUG 9	B+15	4	0	12	16	206
AUG 13	B+16	6	0	11	17	223
<b>AUG</b> 11	B+17		0	10	17	240
<b>AUG</b> 12	B+18	2	0	9	11	251
AUG 13	B+19	2	0	9	11	262
AUG 14	B+20	5	0	8	13	275
<b>AUG</b> 15	B+21	5	0	8	13	288
AUG lb	8+22	4	0	7	11	299
<b>AUG</b> 17	B+23	4	0	7	1 1	310
<b>AUG</b> 18	B+24	3	0	6	9	319
AUG 19	B+25	3	0	6	9	328
AUG 20	B+26	1	Û	6	7	335

SHIP: USS KENNETH WHITING (AV-14)

CREW SIZE: 539

GROUP: TECHNICAL

MISSION: KENNETH WHITING arrived at Bikini on May 29, 1946, as a member of the Technical Task Group. Its primary mission during CROSSROADS was to house the scientific personnel and support their experiments.

SHOT DATA:	<b>TEST</b>	<u>D A T E</u> ( T	I MYIHLD)	TYPE DETONATION	
	ADLE	1 July 46 (0000)	22 VT	Air Duret (1520 foot)	
		1 July 46 (0900)		Air Burst (+520 feet)	
	BAKER	25 July 46 (0835)	23 KT	Shallow Underwater (-90	feet)

PATH REPORT: This report contains the geographic locations of CTJF-I support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.195 REM

Date unit departed Bikini: August 14, 1946 (BAKER + 20)

# PATH REPORT FOR THE USS KENNETH WHITING

400	084	0.18	8095	2161	331500	301007	300900	606	290824	281632	Ω Ω	260001	251100	5102	042400	1:0 	02124E	011534	011616	011553	011400	t t : 1 f	IME
U		0.4	·-0	-	2304N	2304N	20945	20945	21940	21940		25946		ር.ጣ	N4053	23041		2502F	2304N	2304N	2591M	1 1 1	PLACE
DEFHALED BIRINI CAGOON ENROCIE FERRO HARBOK 14 AGGOS 1946	NOTERWAY TO DEPART LAGOON	D IN BER	UNDERWAY	ANCHORED IN BERTH 382	UNDERWAY	ANCHORED IN BERTH 55	UNDERWAY FROM BERTH ABLE	ANCHORED 500 YARDS WEST OF BERTH ABLE	UNDERWAY	ANCHORED IN BERTH 381		ANCHORED AS BEFORE	NCHO	ENTERED BIKINI LAGOON *FT:R SHOT BAKER	ANCHORED AS BEFORE	ANCHORED IN BERTH 55	UNDERWAY TO SHIFT BERTHS	ANCHORED IN BERTH 146	UNDERWAY FROM BERTH 55	ANCHORED IN BERTH 55	ENTERED BIKINI LAGODN AFTER SHOT ABLE		REMARKS

USS KENNETH WHITING CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TINE	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL	A+0	0	0		0	0
JUL 2	A+1	3	0		3	3
JUL 3	A+2	0	0		0	3
JUL 4	A+3	0	0		0	3 3
JUL 5 T	HRU 24	0	0			3
JUL 25	Bt 0	0	0	0	0	3
JUL 26	B+1	0	0	0	0	3
JUL 27	B+2	0	0	1	1	4
JUL 28	B+3	1	0	3	4	8
JUL 29	B+4	0	0	2	2	10
JUL 30	B+5	11	0	8	19	29
JUL 31	B+6	17	0	10	27	56
AUG I	B+7	17	0	8	25	81
AUG 2	B+8	10	0	7	17	98
AUG 3	B+9	O	0	6	6	104
AUG 4	B+10	0	0	5	5	109
AUG 5	B+11	0	0	5	5	114
AUG b	B+12	0	0	4	4	118
AUG 7	B+13	6	0	4	10	128
AUG 8	B+14	10	0	3	13	141
AUG 9	B+15	9	0	3 3	12	153
AUG 10	B+16	8	0	3	11	164
AUG 11	B+17	7	0	3	10	174
AUG 12	B+18	6	0	3	9	183
AUG 13	B+19	6	0	2	8	191
AUG 14	B+20	2	0	2	4	195

SHIP: USS LAFFEY (DD-724)

CREW SIZE: 251

GROUP: SURFACE PATROL

MISSION: LAFFEY arrived in Bikini Lagoon on June 4, 1946 to prepare for the operation. As part of the Surface Patrol Group the ship was designed to conduct oceanographic surveys and perform radiological monitoring during CROSSROADS.

SHOT DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYTELD	TYPE DETONATION
	ABLE	I July 46 (0900)	23 KT	Air Burst (+520 feet)
	BAKER	25 July 46 (0835)	23 KT	Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.332 REM

Date unit departed Bikini: August 10, 1946 (BAKER + 16)

### PATH REPORT FOR THE USS LAFFEY

TIME PLACE	RE S
010900 2591M	OBSERVED SHOT ABLE FROM A DISTANCE OF APPROXIMATELY 19 MILES
042400 2591M	
250835 2591 <b>M</b>	OBSERVED SHOT BAKER FROM A DISTANCE OF APPROXIMATELY 1 3 MILES
260954 2591M	ENTERED BIKINI LAGOON
261015 2396P	ANCHORED IN BERTH #338
281600 2396P	UNDERWAY TO NEW BERTH
281635 23948	ANCHORED IN BERTH #385N
300900 2394S	UNDERWAY
301600 2502M	ANCHORED IN BERTH #1475
310000 2502M	ANCHORED AS BEFORE
331345 2502M	UNDERWAY
331428 2392A	ANCHORED IN BERTH "HOW SOUTH"
352400 2392A	ANCHORED AS BEFORE
360740 2392A	UN DE R WAY
360800 <b>2591</b> M	EXITED BIKINI <b>LAGOON</b>
361706 2591M	RE-ENTERED BIKINI LAGOON
410829 2591M	DEPARTED BIKINI LAGOON ENROUTE PEARL HARBOR 10 AUGUST 1946

USS LAFFEY CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP <b>Contamenation</b>	DAILY TOTAL	CUM <b>TOTAL</b>
JUL 1	At0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 T	HRU <b>24</b>	0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	1	0	5	6	6
JUL 28	B+3	4	0	30	34	40
JUL 29	B+4	0	0	21	21	61
JUL 30	B+5	6	0	25	31	92
JUL 31	B+6	14	0	30	44	136
AUG 1	B+7	15	0	24	39	175
AUG 2	B+8	8	0	21	29	204
AUG 3	B+9	0	0	18	18	222
AUG 4	B+10	0	0	16	16	238
AUG 5	B+11	0	0	1 4	14	252
AUG 6	B+12	0	0	13	13	265
AUG 7	B+13	6	0	11	17	282
AUG 8	B+14	10	O	10	20	302
AUG 9	B+15	9	0	10	19	321
AUG 10	B+16	2	0	9	11	332

SHIP: USS LCI-977

CREW SIZE: 35 (est)

GROUP: SERVICE

MISSION: LCI-977 was part of the dispatch **boat** pool during its participation in Operation CROSSROADS. As **such** the LCI-977 provided for dispatch and mail service, interatoll freight and passenger service.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.176 REM

Date unit departed Bikini: August 22, 1946 (BAKER + 28)

## PATH REPORT FOR THE USS LCI-977

ୟ ( ଓଡ଼ କୁ	401125 24990 450517 2598E	250835 2591M 400635 2591M	010900 2591M	TIME PLACE
DEPARTED	) ANCHORED - "C" 40 DEG BUOY #6 ZOZ DEG SIGNAL TOWER I OS DEG : ANCHORED IN BERTH 251A	OBSERVED SHOT BAKER WHILE ANCHORED AT KWAJALEIN ENTER∉D BIKINI LAGOON	OBSERVED SHOT ABLE WHILE ANCHORED AT KWAJALEIN	REMARKS

USS LCI-977 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON Water	TARGET SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 T	HRU 2 4	0	0			0
JUL 25	BtO	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	0	0	0	0	0
JUL 29	B+4	0	0	0	0	0
JUL 30	B+5	0	0	0	0	0
JUL 31	B+6	0	0	0	0	0
AUG 1	B+7	0	0	0	0	0
AUG 2	B+8	0	0	0	0	0
AUG 3	B+9	0	0	0	0	0
AUG 4	B+10	0	0	0	0	0
AUG 5	B+11	0	0	0	0	0
AUG 6	B+12	0	0	0	0	0
AUG 7	B+13	0	0	0	0	0
AUG 8	B+14	0	0	0	0	0
AUG 9	B+15	6	0	12	18	18
AUG 10	B+16	8	0	11	19	37
AUG 11	B+17	7	0	10	17	54
AUG 12	B+18	6	0	10	16	70
AUG 13	B+19	6	0	9	15 -	85
AUG 14	B+20	5	0	8	13	98
AUG 15	B+21	5	0	8	13	111
AUG 16	B+22	4	0	7	11	122
AUG 17	B+23	4	0	7	11	133
AUG 18	B+24	3	0	7	10	143
AUG 19	B+25	3	0	6	9	152
AUG 20	B+26	3	0	6	9	161
AUG 21	B+27	3	0	6	9	170
AUG 22	B+28	1	0	5	6	176

SHIP: USS LCI(L)- 1062

CREW SIZE: 35 (est)

GROUP: SERVICE

MISSION: LCI(L)-1062 was part of the dispatch boat pool during its participation in Operation CROSSROADS. As such the LCI(L)-1062 provided for dispatch and mail service, inter-atoll freight and passenger service.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
			July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins | July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.362 REM

Date unit departed Bikini: August 22, 1946 (BAKER + 28)

### PATH REPORT FOR THE USS LCI-1062

TIME PLACE	REMARKS
010900 2591M	LOCATED AT KWAJALEIN FOR SHOT ABLE
250835 2591M	ENROUTE FROM BIKINITO RONGELAP DURING BAKER SHOT
310945 2591M	ENTERED BIKINI LAGOON AFTER BAKER SHOT
311111 2504E	ANCHORED IN BERTH #61
331604 2504E	UNDERWAY
331709 2693B	ANCHORED <b>off enyu</b> ISLAND
370523 26 <b>9</b> 3B	UNDERVAY
370752 2 <b>591M</b>	EXITED BIKINI LAGOON ENROUTE KWAJALEIN
400700 2591M	RE-ENTERED BIKINI LAGOON
400817 2504N	ANCHORED IN BERTH #63
430602 2 <b>5</b> 04N	UNDERWAY
430648 2591M	EXITED BIKINI <b>LAGOON</b>
460610 2591M	RE-ENTERED THE LAGOON
461457 2504E	ANCHORED IN BERTH #61
491010 2504E	UNDERWAY
491549 2591M	DEVELOPED SHAFT PROBLEMS RETURNED TO LAGOON
491737 2504C	ANCHORED IN BERTH #44
530732 2504C	UN [] E R 🖟 A Y
530904 2591M	DEPARTED BIKINI LAGOON ENROUTE KVAJALEIN 22 AUGUST 94
	6

USS LCI-1062 CALCULATED FILM BADGE DOSE (IN MREM!

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP <b>CONTAMENATION</b>	DAILY <b>TOTAL</b>	CUM <b>TOTAL</b>
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
10F 2	A+2	0	0		0	Q
JUL 4	A+3	0	0		0	0
JUL 5 T	<b>HRU 24</b>	0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 2 6	B+1	0	0	0	ij	0
JUL 2 7	Et2	0	0	0	0	0
JUL 28	Et3	0	0	ij	0	0
JUL 29	B+4	Ō	0	0	0	0
JUL 30	B+5	0	0	0	0	0
JUL 3 1	B+6	7	0	20	27	27
AUG 1	B+7	1 4	0	31	45	72
AUG 2	bta	10	0	27	37	109
AUG 3	Et9	0	Û	23	23	132
AUG 4	B t 1 !j	0	0	20	20	152
AUG 5	Et11	0	0	l a	l a	170
AUG 6	B+12	0	0	1b	1b	186
AUG 7	B+13	0	0	14	14	200
AUG a	B+14	0	0	13	13	213
AUG 9	B+15	6	0	12	18	231
AUG 10	B+16	8	0	11	19	250
AUG 1 1	B+17	0	0	10	10	260
AUG 12	B+18	1	0	10	11	271
AUG 1 3	Et19	0	0	9	9	280
AUG 14	B+20	0	0	a	8	288
AUG 15	B+21	3	0	a	11	299
AUG 1 b	B+22	4	0	7	11	310
AUG 17	B+23	4	0	7	11	321
AUG 18	B+24	2	0	7	9	330
AUG 19	B+25	3	0	6	9	339
AUG 20	B+26	3	0	Ь	9	348
AUG 21	B+27	3	0	6	9	357
AUG 22	B+28	0	0	5	5	362

SHIP: USS LCI-1067

CREW SIZE: 34

**GROUP: SERVICE** 

MISSION: LCI-1067 was part of the dispatch boat pool during its participation in Operation CROSSROADS. As such the LCI-1067 provided for dispatch and mail services, inter-atoll freight and passenger service.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION	
			1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90	feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.093 REM

Date unit departed Bikini: August 22, 1946 (BAKER + 28)

### PATH REPORT FOR THE USS LCI-1067

TIME	PLACE	REMARKS
010700	2591M	ENROUTE KWAJALEIN (FROM BIKINI) AT TIME OF SHOT ABLE - DID NOT ENTER BIKINI LAGOON AFTER SHOT ABLE
250835	2591M	SHOT BAKER
341215	2591M	ENTERED BIKINI LAGOON
341253	2094W	MOORED PORT SIDE TO LST-861
341530	2094W	UNDERWAY
341648	25948	MODRED TO USS WILDCAT
341815	25945	UNDERWAY FROM USS WILDCAT
341832	239 <b>4</b> H	ANCHORED IN BERTH #365
351239	2394H	UNDERWAY
351309	2392D	MODRED TO USS SYLVANIA
351357	23920	UNDERWAY FROM USS SYLVANIA
351415	2394H	ANCHORED IN BERTH #365
352400	2394H	ANCHORED AS BEFORE
390810	2591M	DEPARTED BIKINI LAGOON - ENROUTE KWAJALEIN
440607	2591M	RE-ENTERED BIKINI LAGOON
470645		DEPARTED BIKINI LAGOON FOR KWAJALEIN
500548		RE-ENTERED BIKINI LAGOON
530853	2591M	DEPARTED BIKINI LAGOON ON 22 AUGUST 1946 - ENROUTE KWA JALEIN

USS LCI-1067 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMENATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	At0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 T	HRU 24	0	0			0
JUL 25	Bt0	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
<b>JUL</b> 27	B+2	0	0	0	0	0
JUL 28	B+3	0	0	0	0	0
JUL <b>29</b>	B+4	0	0	0	0	0
<b>JUL</b> 30	B+5	0	0	Û	0	0
<b>JUL</b> 31	B+6	0	0	0	0	0
AUG 1	B+7	0	0	0	0	0
AUG 2	B+8	0	0	0	0	0
AUG 3	B+9	0	0	0	0	0
AUG 4	B t 10	0	0	0	0	0
AUG 5	B+11	0	0	0	0	0
AUG 6	B+12	0	0	0	0	0
AUG 7	B+13	0	0	0	0	0
AUG 8	B+14	0	0	0	0	0
AUG 9	B+15	0	0	0	0	0
AUG 10	B+16	0	0	0	0	0
AUG 11	B+17	0	0	0	0	0
<b>AUG</b> 12	B+18	0	0	0	0	0
<b>AUG</b> 13	B+19	4	0	9	13	13
AUG 14	B+20	5	0	8	13	26
<b>AUG</b> 15	B+21	5	0	8	13	39
<b>AUG</b> 16	B+22	1	0	7	8	47
AUG 17	B+23	0	0	-		54
AUG 18	B+24	0	0	7		61
AUG 19	B+25	2	0	6	8	69
AUG 20	B+26	3	0	6	9	78
AUG 21	B+27	3	0	6	9	87
AUG 22	B+28		0	5	6	93

SHIP: USS LCI-109 1

CREW SIZE: 35 (est)

GROUP: SERVICE

MISSION: LCI-1091 was part of the dispatch boat pool during its participation in Operation CROSSROADS. As such the LCI-109 1 provided for dispatch and mail services, inter-atoll freight and passenger service.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
			July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.380 REM

Date unit departed Bikini: August 25, 1946 (BAKER + 31)

### PATH REPORT FOR THE USS LCI-1091

TIME PLACE	REMARKS
010900 2 <b>591M</b>	LCI-1091 WAS AT KWAJALEIN AT TIME OF SHOT ABLE (REMAIN ED AT KWAJALEIN PAST 4 JULY!
250835 2591M	
310930 2591M	ENTERED BIKINI LAGOON
311005 2500M	ANCHORED IN BERTH 191
330601 2500M	ERW FOR K WA JALEIN
330649 2 <b>591M</b>	DEPARTED BIKINI <b>LAGOON FO</b> R KWAJALEIN
360645 2591M	RE-ENTERED BIKINI LAGOON
3907 <b>5</b> 0 <b>2591M</b>	DEPARTED BIKINI LAGOON FOR KWAJALEIN
420655 2591M	RE-ENTERED BIKINI LAGOON
450809 2 <b>591M</b>	DEPARTED BIKINI LAGOON FOR KWAJALEIN
480730 <b>2591M</b>	FE-ENTERED BIKINI LAGOON
481405 24030	ALONGSIDE GENEVA
481715 24030	LEA!! ING GENEVA
561103 2404D	UNDERWAY <b>from berth 42 for kwajalein</b>
561142 2591M	DEPARTED BIKINI LAGDON ON 25 AUGUST 1940

USS LC 1091 CALCULATED FILM BADGE D-SE (IN MREM)

		JUL 25 JUL 25 JUL 25 JUL 26 JUL 27 JUL 27 JUL 27 JUL 29 JUL 30 JUL 30 AUG 3 AUG 5 AUG 5 AUG 6 AUG 7 AUG 8	i i
+ + + + + + + + + + + + + + + + + + +	++++++		
омимачач	хоо⊬иопок	○○○○○ ○○○○○○	
0000000			TARGET
(1) (1) (1) (1) (2) (2) (3) (4)		O HA PO CO A HA PO	SHIP
57779990			DAILY TCTAL
ここみらるらり		017744880440 00440	CUM

SHIP: USS LOWRY (DD-770)

CREW SIZE: 244

GROUP: SURFACE PATROL

MISSION: As a member of the Surface Patrol Group, LOWRY was outfitted with special oceanographic and radiological equipment in order to conduct oceanographic surveys and perform radiological monitoring. She performed monitoring duties both inside and outside Bikini Lagoon.

SHOT DATA:	<u>TEST</u>	date (Time)	<u>YIELD</u>	TYPE DETONATION
		l July 46 (0900) 25 July 46 <b>(0835)</b>	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.326 REM

Date unit departed Bikini: August 10, 1946 (BAKER + 16)

### PATH REPORT FOR THE USS LOWRY

-   <u>-   -   -   -   -   -   -   -   -  </u>	TAC	MARKS
250835	2591M	SESRVED SHOT BAKER FROM A DISTANCE OF APP
251651	2591M	
517	2694M	D IN AREA
т СТ СО	Ċ.	AY FOR NIGH
CI.	1	ANCHORED IN AREA 1798F
	7 9 <b>m</b>	ANCHCRED AS BEFORE
6022	798	RADSAFE PERSONNEL REPORTED THE PRESENCE OF RADIA
6042	79	AY FOR NEW AN
6050	966	DRED IN AR
Ü-	٠ <u>٩</u>	UNDERWAY
6095	693	ED IN AREA
718	697	A600
~]	2591M	ARTE BIKINI LAG
9074	-0 CI	RED BIKINI LAGOO
् १	194	RED IN BERTH 381
91040	194	Y FOR NEW AND
9110	666	RED IN WERTH 216
107	6.0	m TO E
1081	697	m
1 1 1 1 1 1	·0	Y FOR ANCHO
p	400	ORED IN BERTH 19
3144	<b>4</b>	m
0153	10	0
108	14 12	DEPARTED BIKINI LAGOON ENROUTE SAN DIEGO 10 AUGUS
		0-

USS LOWRY CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	<b>LAGOON</b> Water	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	A +0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 T	HRU 24	0	0			0
JUL 25	B+0	4	0	8	12	12
JUL 26	B+1	2	0	17	19	3 1
JUL 27	B+2	0	0	7	7	38
JUL 28	B+3	0	0	4	4	42
JUL 29	B+4	b	0	19	25	67
JUL 30	B+5	7	0		42	109
JUL 31	B+6	9	0	30	39	148
<b>BUG</b> 1	B+7	14	0	24	38	186
GUG 2	B+8	9	0	21	30	216
AUG 3	B+9	0	0	18	18	234
AUG 4	B+10	0	0	16	16	250
AUG 5	B+11	0	0	14	14	264
AUG 6	B+12	0	0	13	13	277
AUG 7	B+13	b	0	11	17	294
AUG 8	B+14	3	0	10	13	307
AUG 9	B+15	0	0	10	10	317
AUG 10	B+16	0	0	9	9	326

SHIP: USS LST-388

CREW SIZE: 80

GROUP: SERVICE

MISSION: LST-388 arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As part of the Repair and Service Unit, LST-388 provided provisions or logistical support (fuel and water) to the other support ships participating in the operation.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins I July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.277 REM

Date unit departed Bikini: August 25, 1946 (BAKER + 31)

## FATH REPORT FOR THE USS LST-388

TIME	PLACE	REMARKS
010900	2591M	DBSERVED SHOT ABLE
011926	2591M	ENTERED BIKINI LAGOON
011947	25950	ANCHORED IN BERTH 368
021505	25950	UNDERWAY FROM BERTH 368
021643	25048	ANCHORED IN VICINITY OF BERTH 43
030540	2504B	UNDERWAY FROM ANCHORAGE
030543	2605X	BEACHED AT LST BEACHING AREA ON BIKINI ISLAND
042400	2605X	BEACHED AS BEFORE
250835		SHOT BAKER
310525		ENTERED BIKINI LAGOON
310625		ANCHORED IN VICINITY OF BERTH 61
310640		UNDERWAY FOR BEACH AREA
310645		BEACHED ON BIKINI ISLAND
311700		UNDERWAY FROM BEACH
311705		ANCHORED IN VICINITY OF BERTH 44
331706		UNDERWAY FROM ANCHORAGE
331742	2794P	ANCHORED IN VICINITY OF BERTH "ROGER" - "A"151.5 DEG
		"B" 16 DEG N.ENYU 64 DEG
352400		ANCHORED AS BEFORE
380420		UNDERWAY TO SHIFT BERTHS
561137	2591M	DEPARTED BIKINI LAGOON ON 25 AUGUST 1946 - ENROUTE KWA
		JALEIN

USS LST-388 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	At 0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	Ō	0		0	0
JUL 5 T	<b>HRU 24</b>	Ô	0			0
JUL 25	BtO	0	0	0	0	0
JUL 26	B+1	0	0	Û	!j	0
JUL 27	B+2	0	0	0	0	ij
JUL 28	B+3	0	0	0	0	0
JUL 29	Bt4	0	0	0	0	0
JUL 30	B+5	0	0	0	!j	0
JUL 31	B+6	5	0	13	18	18
GUG 1	Et7	4	0	17	21	39
GUG 2	B+8	1	0	15	16	55
GUG 3	Bt9	0	0	13	13	68
GUG 4	B+10	0	0	11	11	79
GUG 5	B+11	0	0	10	10	89
AUG 6	B+12	0	0	9	9	98
AUG 7	B+13	7	0	8	15	113
AUG 8	Bt14	10	0	8	18	131
GUG 9	B+15	9	0	7	16	147
<b>GUG</b> 10	B+16	8	O	6	14	151
<b>GUG</b> 11	B+17	7	0	6	13	174
AUG 12	B+18	6	0	6	12	186
<b>GUG</b> 13	Bt19	6	0	5	11	197
AUG 14	B+20	5	0	5	10	207
GUG 15	Bt21	5	0	5	10	217
AUG 15	B+22	4	0	4	8	225
<b>GUG</b> 17	B+23	4	0	4	8	233
GUG 18	B+24	3	0	4	7	240
AUG 19	B+25	3	0	4	7	247
GUG 20	B+26	3	0	3	6	253
<b>GUG</b> 21	B+27	3	0	3	6	259
AUG TE	B+28	2	0	3	5	264
<b>GUG</b> 23	Bt29	2	0	3	5	269
GUG 24	B+30	2	0	3	5	274
<b>GUG</b> 25	B+31	0	0	3	3	277

SHIP: USS LST-817

CREW SIZE: 63

GROUP: TRANSPORT

MISSION: USS LST 817 was a member of the Transport Unit during the operation. At CROSSROADS one of the primary duties of the transport unit was to house the crews of target ships during and following the two detonations. Members of this unit were also used to transport personnel and various equipment and supplies.

SHOT DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIBELD)	TYPE DETONATION
	ABLE	1 July 46 (0900)	23 KT	Air Burst (+520 feet)
	BAKER	25 July 46 (0835)	23 KT	Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.182 REM

Date unit departed Bikini: August 15, 1946 (BAKER + 21)

Ship contamination factor when departing Bikini: 7 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS LST-817

TIME PLACE	REMARKS
010900 2591M	OBSERVED SHOT ABLE
011630 2591M	ENTERED BIKINI LAGOON
011815 25050	ANCHORED IN BERTH 39
031338 25050	UNDERWAY TO BEACHING AREA
031348 260 <b>5</b> X	BEACHED ON BIKINI ISLAND
042400 2605X	BEACHED AS BEFORE
250835 2591M	OBSERVED SHOT BAKER
310615 2591M	ENTERED BIKINI LAGOON
310714 25050	ANCHORED IN BERTH 39
321000 25050	UNDERWAY FROM BERTH 39
321130 2695R	MOORED TO USS WILDCAT
321 <b>61</b> 0 26 <b>95</b> R	UNDERWAY FROM USS WILDCAT
321714 2605X	BEACHED ON BIKINI ISLAND
340645 2605X	UNDERWAY FROM BEACH
3407 <b>5</b> 0 1213U	ANCHORED OFF ADMOEN ISLAND
341827 1213U	UNDERWAY FOR BEACH
341835 12130	BEACHED ON ADMOEN ISLAND
352400 12130	BEACHED AS BEFORE
462000 2591M	DEPARTED BIKINI LAGOON ON 15 AUGUST 1946 - ENROUTE KWA
	JALEIN

USS LST-817 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	At 0	0	0		()	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	Ō
JUL 4	A+3	0	0		0	0
JUL 5 T	HRU 24	0	0			0
JUL 25	<b>B+</b> 0	0	0	0	0	0
JUL 26	B+1	0	0	0	O	0
JUL 27	B+2	0	0	0	0	Ų
JUL 28	B+3	O	0	0	O	0
JUL 29	B+4	0	0	0	0	0
JUL	B+5	0	0	0	0	0
<b>JUL 31</b>	B+6	4	0	13	17	17
AUG 1	B+7	4	0	17	21	38
AUG 2	B+8	1	0	15	lb	54
AUG 3	B+9	3	0	13	lb	70
AUG 4	Bt10	0	0	12	12	82
AUG 5	B+11	0	0	10	10	92
GUG b	B+12	0	0	9	9	101
AUG 7	B+13	0	0	8	8	109
AUG 8	B+14	0	0	8	8	117
AUG 9	B+15	Û	0	7	7	124
AUG 10	B+16	0	0	6	b	130
<b>AUG</b> 11	B+17	5	0	6	11	141
AUG 12	B+18	6	0	6	12	153
AUG 13	B+19	6	0	5	11	lb4
AUG 14	B+20	5	0	5	10	174
AUG 15	B+21	3	0	5	8	182

SHIP: USS LST-861

CREW SIZE: 80

GROUP: SERVICE

MISSION: LST-861 arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As part of the Repair and Service Unit, LST-861 provided logistical support to the other support ships participating in the operation and, also, served as the Fleet Post Office.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins I July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.326 REM

Date unit departed Bikini: August 24, 1946 (BAKER + 30)

Ship contamination factor when departing Bikini: 4 (this value is for use with the nomograph in Figure B-5)

# PATH REFORT FOR THE USS LST-861

TIME PLACE RI	EM A R
030701 2591M EM	NDERWAY TO KWAJALEIN AT TIME OF SHOT ABLE NTERED BIKINI LAGOON NCHORED IN BERCH 64
042400 2604F AM	NCHORED AS BEFORE NDERWAY TO KWAJALEIN AT TIME OF SHOT BAKER
281331 2591M EM	NTERED BIKINI LAGOON NCHORED - "A" 103 DEG "B" 54 DEG
281530 2093R AM	NDERWAY TO SHIFT BERTHS NCHORED - "C" 36 DEG NORTH ENYU BEACON 78 DEG "A"?
281638 2093R <b>U</b>	DEG (1000 YARDS WEST OF BERTH "C") NDERWAY NCHURED 1 000 YARDS SOUTH OF BERTH #380 - ROCKEKARAI I
s . <b>1</b> 5	. <b>54 DEG L.TAN. ENYU 78 DEG</b> R.TAN. <b>ENYU 98 DEG</b> "C" <b>53.5 DEG</b> "D" 49 <b>DEG</b> "E" 325 DEG
301200 2604F AN	ESTIMATED <b>time for) undervay to berth 64</b> NCHORED IN <b>Berth 64</b> NDERWAY <b>from berth 64</b>
331725 2694X <b>AN</b>	NCHORED " " B" 143 DEG " G" 22 DEG NORTH ENYC BEACON 7.5 DEG
381041 2694X U	NCHORED GS BEFORE NDERWAY FOR NEW ANCHORGGE EPARTED BIKINI LAGOON ON 24 AUGUST 1946 - ENROUTE KWA
	ALEIN

USS LST-861 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON Water	TARGET SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	A+0		0		0	0
	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 TH	IRU 24	0	0			0
JUL 25	B <b>t</b> 0	ð	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	ĬĮ.	0	0	0	0
JUL 29	B+4	0	0	0	0	0
JUL 30	B+5	6	0	12	18	18
JUL 31	B+6	12	0	22	34	52
AUG 1	B+7	14	0	18	32	84
AUG 2	B+8	10	0	16	26	110
AUG 3	B+9	0	0	13	13	123
AUG 4	B+10	į-i	0	12	12	135
AUG 5	B+11	0	0	10	10	145
AUG 6	B+12	0	0	9	9	154
AUG 7	B+13	5	0	8	13	167
AUG 8	B+14	10	0	8	18	185
AUG 9	B+15	9	0	7	16	201
AUG 10	8+16	8	0	6	1 4	215
AUG 11	B+17	7	0	6	13	228
AUG 12	8+18	6	0	6	12	240
AUG 13	B+19	6	Ō	5	11	251
AUG 14	B+20	5	0	5	10	261
AUG 15	B+21	5	0	5	10	271
AUG 1 6	B+22	4	0	4	8	279
AUG 17	B+23	4	0	4	8	287
AUG 18	B+24	3	0	4	7	294
AUG 19	9+25	3 3 3 2 2	0	4	7	301
AUG 20	B+26	3 7	0	3	6	307
	B+27	5	0	3	6	313
AUG 22	8+28		0	3	5	318
AUG 23	B+29	2	0	3	5	323
AUG 24	B+30	0	0	3	3	326

SHIP: USS LST-871

CREW SIZE: 81

GROUP: SERVICE

MISSION: LST-871 was one of the ships used to evacuate the Marshallese from their islands. This evacuation was done as a precautionary measure in the event that the islands became contaminated from the two CROSSROADS detonations.

SHOT D	DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIHLD	TYPE DETONATION	
			1 July 46 <b>(0900)</b> 25 July 46 <b>(0835)</b>	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90	feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.000 REM

Date unit departed Bikini: July 25, 1946 (BAKER DAY). LST-871 did not reenter the lagoon after Shot BAKER.

Ship contamination intensity when departing Bikini: 0 (this value is for use with the nomogram in Figure B-5)

# PATH REPORT FOR THE USS LST-871

TIME	PLACE	REMARKS
010900	MŢ	MOORED OFF RONGERIK ISLAND IN RONGERIK ATOLL AT TIME OF SHOT ABLE
050755	2591M	ENTERED BIKINI LAGOON
050922	2404T	ANCHORED IN BERTH #58
060000	2404T	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER
401535	2591M	DID NOT ENTER BIKINI LAGOON AFTER SHOT BAKER. DEPARTE
		D FROM KWAJALEIN FOR SAN FRANCISCO ON 9 AUGUST 1946

USS LST-871 CALCULATED **FILM BADGE DOSE** (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP <b>CONTAMENATION</b>	DAILY TOTAL	CUM <b>TOTAL</b>
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
<b>JUL</b> 3	A+2	0	0		0	0
JUL 4	A+3	0	0		ij	0
JUL 5 T	HRU 24	0	0			0
JUL 25	B+0	0	0	0	0	0

SHIP: USS LST-881

CREW SIZE: 71

GROUP: TRANSPORT

MISSION: LST-881 arrived at Bikini Atoll on March 14, 1946, to prepare for the operation. It was assigned to the transport group and served as a barracks for some of the Construction Battalion personnel at Bikini. In addition, LST-881 was involved with the loading and unloading of equipment and supplies used in conjunction with the operation.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
		July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins | July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various **sources** which it **encountered** while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.193 REM

Date unit departed Bikini: August 22, 1946 (BAKER + 28)

Ship contamination factor when departing Bikini: 5 (this value is for use with the nomograph in Figure B-5)

## FGTH REFORT FOR THE USS LST-331

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE
011735		ENTERED BIKINI LAGOON
011823	2405V	ANCHORED IN BERTH 41
040604	24057	UNDERWAY FROM BERTH 41
040645	24047	MOORED TO USS S T . CROIX I N BERTH 9 2
041745	2404V	UNDERWAY FROM USS ST. CROIX
041759	2404I	ANCHORED N BERTH #57
042400	2404I	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER - BEARING 277 DEGREES AT A DISTANC
		E OF 25 MILES
310607	2591M	ENTERED BIKINI LAGOON
310720	2404J	ANCHORED - "C" 145 DEG "D" 70 DEG "E" 341 DEG
311815	2404J	UNDERWAY
311837	2605X	BEACHED A T BIKINI L S T BEACHING AREA
321513	2605X	UNDERWAY FROM BEACH
321738	28930	MOORED TO PONTOON CAUSEWAY - "A" 191 DEG "B" 351 DEG
		BUDY #4 282 DEG
351916	28930	DE AY
351940	2792P	ANCHORED SOUTHWEST E N D O F ENYUISLAND - "A" 66 DEG "B
		" 8 DEG BUOY #2 226 DEG
352400		ANCHORED AS BEFORE
531341	2591M	DEPARTED BIKINI LAGOON ON 22 AUGUST 1946 - ENROUTE ENI
		WETOK

USS LST-881 CALCULATED FILM BADGE DOSE !IN MREM

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	At3	0	0		0	0
JUL 5 TI	<b>IRU 24</b>	0	0			0
JUL 2 5	B+0	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	Bt2	0	0	0	0	0
JUL 28	Bt3	0	0	0	0	0
JUL 29	B+4	0	0	Ō	0	Ö
JUL 30	B+5	0	Ō	0	0	0
JUL 31	B+6	8	0	15	23	23
AUG 1	B+7	3	0	17	20	43
AUG 2	B+8	0	0	15	15	58
AUG 3	B+9	0	0	13	13	71
AUG 4	B+10	0	0	11	11	82
AUG 5	B+11	0	0	10	10	92
AUG 6	B+12	0	0	9	9	101
AUG 7	B+13	0	0	8	8	109
AUG 8	Bt14	0	0	7	7	116
AUG 9	B+15	0	0	7	7	123
AUG 10	Bt16	0	0	6	6	129
AUG 11	B+17	0	0	6	6	135
AUG 12	Et18	0	0	5	5	140
AUG 13	B+19	0	0	5	5	145
AUG 14	B+20	0	0	5	5	150
AUG 15	B+21	0	0	4	4	154
AUG 16	8+22	0	0	4	4	158
AUG 17	B+23	1	0	4	5	163
AUG 18	B+24	3	0	4	7	170
AUG 19	B+25	3	0	4	7	177
AUG 20	B+26	3	0	3	6	183
AUG 21	B+27	3	0	3	6	189
AUG 22	B+28	1	0	3	4	193

SHIP: USS LST-989

CREW SIZE: 84

GROUP: SERVICE

MISSION: LST-989 was one of the ships used to evacuate the Marshallese from their islands. This evacuation was done as a precautionary measure in the event that the islands became contaminated from the two CROSSROADS detonations.

SHOT DATA: <u>TEST</u> <u>D A T E</u> ( T I <u>MYIHLD</u>) <u>TYPE DETONATION</u>

ABLE 1 July 46 (0900) 23 KT Air Burst (+520 feet)
BAKER 25 July 46 (0835) 23 KT Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.000 REM

Date unit departed Bikini: July 25, 1946 (BAKER DAY). LST-989 did not reenter the lagoon after Shot BAKER.

Ship contamination factor when departing Bikini: 0 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS LST-989

TIME	PLACE	REMARKS
	25244	ANDHORES AT CONCEDENT ATOLL AT TIME OF BUCK AT F
010400	2541W	ANCHORED AT RONGERIK ATOLL AT TIME OF SHOT ABLE
042400	2591M	DID NOT PARTICPATE IN TEST ABLE - DID NOT ENTER BIKINI
		LAGOON BETWEEN 1 JULY AND 4 JULY
250835	2591M	SHOT BAKER
401456	2591M	NOT AT BIKINI FROM 25 JULY THROUGH 9 AUGUST DEPARTE
		D KWAJALEIN FOR PEARL HARBOR ON 9 AUGUST 1946

USS LST-989 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON Water	TARGET SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	ij	0		0	0
JUL 3	A+2	Ō	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 TI	HRU 24	0	0			0
JUL 25	B+0	0	0	V	0	0

SHIP: USS MENDER (ARSD-2)

CREW SIZE: 49

GROUP: SALVAGE

MISSION: MENDER arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As a member of the Salvage Unit, MENDER's main duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
			1 July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.307 REM

Date unit departed Bikini: September 4, 1946 (BAKER + 41)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS MENDER

550900 21010 LEAVING PENSACOLA 651113 2303P ALONGSIDE LCT-1078 651930 2303P LEAVING LCT-1078 560950 2591M DEPARTED BIKIN1 LAGOON WITH LCT-1078 AND YW (UNNUMBERE D) IN TOW ON 4 SEPT 1946 -- ENROUTE KWAJALEIN

USS MENDER CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON Water	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	cUM <b>TOTAL</b>
JUL 1	A+0	0	0		0	0
JUL 2	A+1	Ō	Ō		0	Ó
JUL 3	A+2	Ō	Ö		0	0
JUL 4	A+3	Ô	Ö		Ō	Ó
JUL 5 TI		0	1			1
JUL 25	B+0	0	0	0	ij	1
JUL 26	B+1	0	0	0	0	1
JUL 27	B+2	0	0	0	0	1
JUL 28	B+3	0	0	0	0	1
JUL 29	B+4	0	0	3	3	4
JUL 30	B+5	0	0	6	6	10
JUL 31	B+6	0	0	4	4	14
AUG 1	8+7	0	<b>64</b>	4	68	82
AUG 2	B+8	0	0	4	<b>4</b> 7	86
AUG 3	B+9	Ō	0	3_	3	89
AUG 4	B+10	0	0	3	3	92
AUG 5	B+11	0	0	3	3	95
AUG 6	B+12	0	0	2	3 2 5	97
AUG 7	B+13	0	0	5		102
AUG 8	B+14	0	0	4	4	106
AUG 9	B+15	5	0	8	13	119
AUG 10	B+16	8	10	8	26	145
AUG 11	B+17	7	0	7	14	159
AUG 12	B+18	6	0	7	13	172
AUG 13	B+19	6	0	6	12	184
AUS 14	B+20	5	0	6	11	195
AUG 15	B+21	5	0	5 5	1 () 9	205 21 <b>4</b>
AUG 16 AUG 17	B+22 B+23	4	0	5	?	223
AUG 17	B+24	<b>4</b> 3	0	4	? 7	223 230
AUG 19	B+25	3	ŏ	4	7	237
AUG 20	B+26	3	Ö	4	7	244
AUG 21	B+27	3	Ö	4		251
AUG 22	B+28	1	ő	4	<sup>7</sup> 5	256
AUG 23	B+29	i	ŏ	4	נט נ	261
AUG 24	B+30	2	3	3	8	269
AUG 25	B+31	2	ō	3	5	274
AUG 26	B+32	1	0	3	4	278
AUG 27	B+33	1	Ō	3	4	282
AUG 28	B+34	1	Ŏ	3	4	286
AUG 29	B+35	1	ó	3 3 3 3	4	290
AUG 30	B+36	1	0	3	4	294
AUG 31	B+37	1	ō	3	4	298
SEP 1	B+38	Ō	Ō	2	2	300
SEP 2	B+39	Ō	Ō	2	$\overline{2}$	302
SEP 3	B+40	0	1	2	2 <b>3</b>	305
SEP 4	B+41	0	0	2	2	307

SHIP: USS MOALE (DD-693)

CREW SIZE: 247

GROUP: SURFACE PATROL

MISSION: MOALE arrived at Bikini Atoll on June 5, 1946, to prepare for CROSSROADS. As part of the surface patrol group, MOALE conducted oceanographic surveys and radiological monitorings after both detonations.

SHOT	DATA:	<u>TEST</u>	D	A	T E	_ ( T	I	MYIHLD)	TYPE	DETONATION	_
		ABLE BAKER	1 25	July July	46 <b>(0</b> 9 46 <b>(0</b> 9	900) 83 <i>5</i> )				st (+520 feet) Underwater (-90	0 feet)

PATH REPORT: This report contains the geographic locations of CTJF-I support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., I Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.759 REM

Date unit departed Bikini: August 10, 1946 (BAKER + 16)

Ship contamination factor when departing Bikini: 13 (this value is for use with the nomograph in Figure B-5)

# FGTH REPORT FOR THE USS MOALE

TIME PLACE	
010900 2 <b>591M</b>	SHOT ARLE
	BEARING FROM TGRGET ARRAY 135 @ 20 MILES
	ENTERED BIKLINI LAGOON GFTER GBLE SHOT
	ANCHORED OFF ENYU ISLAND
011305 2692D	UNDERWAY FROM BIKINI TO'KWAJGLEIN
011310 2591M	EXITED LGGOON
021017 25 <b>91M</b>	ENTERED LGGOON
021047 2696M	MOORED BERTH #324
021159 2696M	UNDERWAY TO SHIFT BERITS
021235 2502A	
	UNDERWAY FROM BERTH #146
	DEPARTED BIKINI LGGOON ENROUTE FOR PEGRL HARBOR
250835 2591M	
	ENTERED LAGOON AFTER BAKER SHOT
251902 2597A	
260001 2597A	
261018 2597A	
261050 2593M	
261635 2593M	
	EXITING LAGOON
270001 2591M	CONDUCTED REDIOLOGICAL EXAMINATION OF OIL SLICK TO NOR TH OF BIKINI ISLAND
270002 <b>2591M</b>	TOTAL TIME INVESTIGATING OIL SLICK 7 HRS 06 MINS.
270003 2591M	PASSING SUMARY 100
270004 2591M	
	REENTERING THE LGGOON
	GNCHORED BERTH #369
281525 2595T	UNDERWAY FROM ANCHORAGE
281542 2591M	
290001 2591M	
	ING WATER SAMPLES EVERY 5 MILES OFF BOKOROUYURN ISLAND
	AND OURUKNEU ISLAND
	REENTERED LAGOON
	ANCHORED IN BERTH #330
301430 1895A	
301540 2696N	GNCHORED IN BERTH #324
301643 2696N 301639 2400A	ANCHORED IN DEATH AADO
331405 2400A	",
331445 2392A	ANCHORED BERTH KING
360732 2392H	UNDERWAY
360732 2572N	
361604 2591M	
361622 2392H	
380755 2392H	
380812 2591M	

381421	2591M	REENTERE	) THE LAG	SDON					
381505	2096H	ANCHORED	IN BERTH	4 #305					
401010	2096H	UNDERWAY							
401202	2400B	ANCHORED	BERTH #3	189					
410800	2400B	UNDERWAY	FROM AND	CHORAGE	_				
410801	2591M	DEPARTED	BIKINI L	AGOON	ENROUTE	PEARL	HARBOR	10	AUGUST
		1946							

USS MOALE CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON Water	TARGET Ships	<b>SHIP</b> CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	Ato	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	Ō
JUL 4	A+3	0	0		0	0
JUL 5 TH	RU 24	0	0			0
JUL 25	Bt0	2	0	3	5	5
JUL 26	B+1	37	0	130	167	172
JUL 27	B+2	33	70	95	198	
JUL 28	B+3	3	0	67	70	440
JUL 29	B+4	0	0	47	47	487
JUL 30	B+5	4	Ů	34	38	525
JUL 31	B+6	12	0	30	42	567
AUG 1	B+7	1 4	0	24	3 <sub>8</sub>	605
AUG 2	B+8	8	0	21	29	634
AUG 3	8+9	Û	0	18	18	652
AUG 4	B+10	0	0	lb	l b	668
AUG 5	B+11	0	0	14	14	682
AUG b	B+12	0	0	13	13	695
AUG 7	B+13	4	0	11	15	710
AUG 8	B+14	10	0	10	20	7
AUG 9	B+15	8	0	10	18	748
AUG 10	B+16	2	0	9	11	759

SHIP: USS MOUNT MCKINLEY (AGC-7)

CREW SIZE: 824

GROUP: FLAGSHIP

MISSION: MOUNT MCKINLEY served as the CROSSROADS flagship and arrived at Bikini Atoll on June 2, 19 46, to prepare for the operation.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
		ABLE BAKER	1 July 46 <b>(0900)</b> 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.193 REM

Date unit departed Bikini: August 10, 1946 (BAKER + 16)

Ship contamination factor when departing Bikini: 6 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOE THE USS MOUNT MCKINLEY

TIME	PLACE	REMGRKS
010 1	2591M	OBSERVED SHOT ABLE USS NEVGGG (CENTER TARGET SHIP) EEGRING 253.5 DEG DISTANCE 11.3 MILES
011505	2591M	ENTERED BIKINI <b>LAGOON GFTEE SHOT GELE</b>
011540	2500M	ANCHORED IN BERTH 191
020944	2500M	UNDERWAY
021010	2303N	GNCHORED IN BERTH 112
040900	2303N	GE BEFORE
250835	2591M	DBSERVED SHOT BAKER FROM 8.9 MILES TO THE SOUTHEGST OF
		BIKINI <b>LAGOON</b>
251658	2591M	ENTERED THE LGGOON
251718	2594I	ANCHORED IN BERTH PETER
281513	25941	UNDERWAY TO SHIFT BERTH
281644	2193B	GNCHORED VESTVARD OF BERTH ABLE
300756	2193B	UNDERWAY
300842	2303N	ANCHKORED IN BERTH 112
331416	2303N	UNDERWAY
331450	2295R	ANCHORED IN BERTH 361
370001	2295R	ANCHORED AS BEFORE
411840	2591M	DEPARTED BIKINI LAGOON ENROUTE PEARL HARBOR 10 GUGUST 1946

USS MOUNT MORINLEY CALCULATED FILM BADGE DOSE (IN MREM)

94TE	TIME	LAGGON WATEK	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM Total
JJL 1	A+O	0	A.	The state of the s	ĝ	0
JUL 2	A+1	- -	Ô		- · - 3	3
382 3	4+2	ė	•		Č	5
JUL 4	A - 3	Ó	Ó.		A	<u>-</u> 3
JUL 5 TH		Ģ	Û		•	°∓
JUL 35	B+0	i.	0	)		7
JUL 26	3+1	0	-		0	3
3JL 27	B+2	Ú	ñ	<b>0</b>	0	
JUL 29	2 + 3	()	Λ	ŷ		3
JUL 29	B + 4	į į	Q.	Ú	0	3
3UL 30	B + 5	15	Λ	11	26	<u> </u>
JUL 31	Ē+5	21		13	34	63
AU6 1	5 × 7	15		11	30	93
AJG 2	Ęŧξ	15	Ô	10	25	118
AUG 3	B+9	Ų.		8	8	126
AUG 4	B+10	Ų.	Õ	-		133
AUG 5	E+11	)	0	ģ	6	139
AUG 6	P+12	ý.		<u> 5</u>	5	145
AU6 7	B+13	5	Ų	5	10	155
AUS E	B - 14	10	0	5	15	170
AUG 7	B+15	9	۵		13	185
éJG 10	B+16	á			10	190

SHIP: USS MUNSEE (A-I-F-107)

CREW SIZE: 63

GROUP: SERVICE

MISSION: MUNSEE arrived at Bikini on June 25, 1946. As a member of the repair and service unit, MUNSEE primarily served as a salvage tug.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
			1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.368 REM

Date unit departed Bikini: August 29, 1946 (BAKER + 35)

Ship contamination factor when departing Bikini: 4 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS MUNSEE

```
TIME PLACE REMARKS
010900 2591M ENROUTE FROM BIKINI TO KWAJALEIN AT TIME OF SHOT ABLE.
             OBSERVED SHOT FROM A DISTANCE OF ABOUT 130 MILES.
041725 2591M ENTERED BIKINI LAGOON
041915 2495N ANCHORED USS QUARTZ (WHICH WAS IN TOW) IN BERTH 341
041935 2495N MOORED PORT-TO-PORT WITH USS QUARTZ
042400 2495N MOORED AS BEFORE
051200 9999A PASSING SUMMARY 5 PLUS 0
051201 9999A SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARG
             ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
             ULY THROUGH 24 JULY
050808 2200B ALONGSIDE YDG-83
040839 2200B LEAVING YOG-83
060859 2202A ALGNGSIDE LST-52
060959 2202A LEAVING LST-52
061020 22036 ALONGSIDE LST-661
051100 2203G LEAVING LST-651
061155 2104J ALONGSIDE LST-220
061248 2104J LEAVING LST-220
061307 2205K ALONGSIDE LST-545
061346 2205K LEAVING LST-545
061505 22010 ALONGSIDE HUGHES
061522 22010 LEAVING
                     HUGHES
250835 2591M OBSERVED SHOT BAKER FROM A DISTANCE OF APPROXIMATELY 2
             O MILES
310735 2591M ENTERED BIKINI LAGOON
310924 25010 ANCHORED NORTHEAST OF BERTH 168 (USS BUARTZ ANCHORED 1
             00 YARDS ASTERN)
310945 25010 UNDERWAY
310950 25010 MODRED TO USS QUARTZ
311103 25010 UNDERWAY
311113 25018 ANCHORED EAST OF BERTH 168 - "C" 61 DEG "P" 150 DEG
             OBSTRUCTION BUDY 179 DEG
320955 25015 UNDERWAY
321044 2794K ANCHORED 900 YARDS BEARING 143 DEG FROM CENTER OF BERT
             H 370 ("B" 17 DEG | L.TAN. ENYU ISLAND 77 DEG | "A" 15
             4 DEG)
330727 2794K UNDERWAY TO WASH USS RALPH TALBOT
330754 24011 ANCHORED NORTH OF BERTH 167 - "C" 82 DEG  "B" 143 DEG
331515 24011 UNDERWAY FOR USS SAIDOR
331705 2193M CARRIED OUT ORDERS CONCERNING USS SAIDOR - PROCEEDING
             TO ANCHORAGE
331824 2593E ANCHORED IN BERTH "T"
331840 2593E UNDERWAY TO SHIFT ANCHORAGE
331905 20936 ANCHORED SOUTH OF BERTH 380 - BUDY #4 85 DEG BUDY #1
             122 DEG
340605 20936 UNDERWAY TOWING USS QUARTZ
```

340 <b>64</b> 3 2600F	ANCHORED N BERTH 191A
340B02 2600F	UNDERWAY WITH USS QUARTZ IN TOW
340939 2694R	ANCHORED EAST OF BERTH "ROGER" (USS QUARTZ BEARINGS -
	"A" 141 DEG "B" 23 DEG "C" 1 DEG)
341005 2694R	AY
341049 2692V	ANCHORED SOUTH OF BERTH 384 - R. TAN. ENYU ISLAND 92 DE
	G "A" 76 DEG
350906 2692V	UNDERWAY
511239 2591M	UNDE AY F5R AJALEIN WITH PRINZ EUGEN IN T5W, EXITI
	NG BIKINI LAGOON.
541046 2591M	FE-ENTERING BIKINI LAGOON
550805 2200B	ALONGSIDE GASCONADE2
551155 2200B	LEAVING GASCONADE2
561032 2591M	DEPARTED BIKINI LAGOON WITH USS INDEPENDENCE IN TOW
591200 2591M	HE-ENTERED BIKINI LAGOON (TIME APPROXIMATE)
601200 2591M	DEPARTED BIKINI LAGDON WITH USS BUTTE IN TOW ON 29 AUG
	UST 1446 - ENROUTE KWAJALEIN (FINAL DESTINATION PEARL
	HARBOR) (TIME APPROXIMATE)

USS MUNSEE TALCULATED FILM BADGE DOSE (IN MREM)

) ๓ ๓ ๓ ๓ ๓ ๓ ๓ ๓ เหหหหหหหห	ភព <b>ថា ១១១១១១</b> ១១១	JUL 25 JUL 25 JUL 25 JUL 27 JUL 27 JUL 27 JUL 27 JUL 27 JUL 27 JUL 27 JUL 27 AUG 3 AUG 5 AUG 5 AUG 6 AUG 7 AUG 7 AUG 10	D T m
- + + + + + + + + + + + + + + + + + + +	+ + + + + + + + + + +	H R R A A A A A A A A A A A A A A A A A	TIME
00000N+00	<b>0 0 N N 4</b> 4 N N → C	00000 000000000000000000000000000000000	LAG ON WATER
00000 <b>*</b> 000	000000000		TARGET SHIPS
ыыыыы <b>ы</b> -	/ ወ ወ ቦህ ቦህ ወ ቀ ቀ ቀ ቀ		SHIP CONTAMINDT ON
- <b>4 10 4</b> 0 10 10 10 10 10 10 10 10 10 10 10 10 10	111 120 140 177 170	0000 000000 0000 0000 0000 0000 0000 0000	DAILY TOTAL
	7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00000000000000000000000000000000000000	CUM

SHIP: USS NEWMAN K. PERRY (DD-883)

CREW SIZE: 280

GROUP: NAVAL AIR

MISSION: NEWMAN K. PERRY (DD-883) arrived at Bikini on June 5, 1946, to prepare for the operation. The ship's primary function at CROSSROADS was to serve as a plane guard for the aircraft carrier, USS SAIDOR (CVE-117).

SHOT DATA:	<b>TEST</b>	<u>D A T E</u> ( T	I MYIHLD)	TYPE DETONATION	
	ABLE BAKER	1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 f	eet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.185 REM

Date unit departed Bikini: August 4, 1946 (BAKER + 10)

Ship contamination factor when departing Bikini: 25 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS NEWMAN K PERRY

351441	S S S	3140	14 14 14	221	203	2091	2082	0001	្ ្ា រា	090	01.44	9142	271256	7124	7 2 3 3	7122	10 10 10 10 10 10 10 10 10 10 10 10 10 1	041311	.‡:a } ()	<b></b>	F3 44 C1	<del>-</del> 0	1183		010900	I I I I I I I I I I I I I I I I I I I	
2591M	293	19 19 19	C.	304	697	697	304	$\overset{(4)}{\hookrightarrow}$	् भ	्र १९	(A (A	.α Ω	M1652	(A)	-О Сц	100	165		منت	304	~0 €0	1797	Cfl		M16Ω3	PLACE	
EXITED BIKINI LAGOON ON 4 AUGUST 1981	¥ΑΥ	ORED IN BERTH "F	NDERWAY TO CHANGE	ANCHORED BERTH 55-A	NDERWAY T. BERT	OORED TO -SS ENDREE F	DERWAY TO RECEIVE FUE	NCHORED AS BEF.R	RTH 55-	NDERWAY TO SHIFT B	NCHORED BERTH "MIKE	E-ENTERED BIKINI L	EXITED BIKINI LAGOON		00 TO 300	NTERED BIKINI LAGOO	RVED SHOT BAKER F	EPARTED BIKINI LAGO	NDERWAY-ENROUTE KWAJ	HORED BERTH 5	NDERWAY TO CHANG	NCHORED BERTH #30	RED BIKINI LA	ES		<b>常田MAの大の</b>	

USS NEWMAN I: FERRY CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LGGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	0	0	*****	0	0
JUL 2	A+1	2	0		2	2
JUL 3	A+2	0	0		0	2
JUL 4	A+3	0	0		0	2
JUL 5 T	HRU 2 4	0	0			2
JUL 25	B+0	0	0	Ü	0	2
JUL 26	B+1	0	0	0	0	2
JUL 27	B+2	0	0	0	0	2
JUL 23	B+3	0	0	0	0	2
JUL 29	B+4	0	0	0	0	2
JUL 30	B+5	11	0	21	32	34
<b>JUL</b> 31	B+6	17	0	30	47	31
GUG 1	B+7	1b	0	24	40	121
GUG 2	B+8	9	0	21	30	151
GUG 3	B+9	ij	0	18	18	169
AUG 4	B+10	ij	0	16	16	185

SHIP: USS O'BRIEN (DD-725)

CREW SIZE: 237

GROUP: SURFACE PATROL

MISSION: USS O'BRIEN (DD-725) arrived at Bikini Atoll on June 15, 1946, to participate in Operation CROSSROADS. As part of the Surface Patrol Group during CROSSROADS, special oceanographic and radiological equipment was installed on the ship prior to the operation.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION	
		1 July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 fe	et)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins I July 1946. All days are July (e.g., I Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.175 REM

Date unit departed Bikini: August 8, 1946 (BAKER + 14)

Ship contamination factor when departing Bikini: 16 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS O'BRIEN

391230	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2606	3608	00 00 3	6173	6170	0809	6074	3151	3142 42	3090	(A (C) (C) (C)	0140	0 1 1	0093	0092	00 	8160	Cυ Cυ Επ		7 5 5 5 6	지 대 대	6171	0~ €/1 €/1	05 101 101	<u>하</u>		5 ូន	051000	5 O 6		<u>-13</u>	<del> </del>
1/607	1 4 4 4 5 1 1 1 1 1 1 1 1		U O U	्य •0 •य	্ব -এ নে		-40 E.B	(사 -40 (사	्य -श स्य	200	S	-0 -0 []	00 50 10	10 10 10	10 10 10	-3 -0	692	45 45 45	569	<i>C</i> 1 -Ω	494	-40 -45	194	40	 √0 •	₩. 10		10 10 11		LΠ		<u></u>	70   F   O   M
DEPARTED BIKINI LAGOON FOR PEARL HARBOR 08 AUG 1946	HOR	Ē	HORED IN BERTH 116 NORT	NDERWAY FROM BERTH "H	NCHORED IN BERTH "H" N	NIES L	SSED BUOY #	NDERWAY	HORED IN BERTH "H" N	DERWAY FROM BERTH 11	CHORED IN BERT	Y FROM BERTH 3	IORED IN BERTH 38	NDERWAY TO USS ENDR	HORED 600 YARDS NORT	NDERWAY TO SHIFT BERT	NCHORED IN BERTH	EL B10 #	NDERWAY FROM BERT	NCHORED IN BERTL 37	SED BUO	DERWAY FROM BERTH	HORED IN BERTH 35	DERMAY TO SHI	NCHORED IN BERTH 31	NTERED BIKINI LAGOO	ING DF 2	BSERVED SHOT BAKER	NCHORED IN BERTH	NTERED BIKINI LAGOD	ATIONED FOR RADIOL	RVED SHAT ABLE FROM A DIS	1

USS O'BRIEN CALC.LATED FILM BADGE DOSE (IN MREM)

DATE	JUL	JUL	JUL	JUL	JUL	JUL	JUL	JUL	יוור	JUL	JUL	JUL	AUG	AUG	AUG	AUG	AUG	AUG	AUG	AUG
	i	M	C4	£3		64 CII	26	27	က	(4 (4	30	(A 	-	r.)	CH	4	СЛ	0-	7	œ
i 33 m	A+0	+	A+2	+		B+0	+	B+2	+	H+4	+	+	+	100 + 00	+	8+10	8+11	+	8+13	+
	o į	0	0	0	0	0	0	0	ঝ	0	0	0	0	4	0	0	0	0	۵۰	4
<b>1</b> 00 −1	o	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					0	0	И		16			80			14	12	11	11	10
DAILY TOTAL	0   1   1   1   1   1   1   1   1   1	0	0	0		0	0	C4	12 00	16	12	10	<b>6</b> 0				12		17	4
155	0 1	0	0	0	0	0	0	ы	89 (-)	44	0/ Cu	6	74	91	$\circ$	121	133	144	161	175

SHIP: USS ONEOTA (AN-85)

CREW SIZE: 45

GROUP: SALVAGE

MISSION: ONEOTA arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As a member of the Salvage Unit, ONEOTA's main duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires.

SHOT D	ATA: <u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
		July 46 (0900) R 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.582 REM

Date unit departed Bikini: August 26, 1946 (BAKER + 32)

Ship contamination factor when departing Bikini: 5 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS ONEOTA

```
020728
020815
020855
020925
020944
021122
022400
040900
051200
                                                                                                                                                                                                                                                                                                                                                                                                                                          0111222
0111338
0111452
0111522
0111537
0111607
0111725
0111725
0111725
0111725
0111725
0111725
291017
291155
300800
301205
301345
                                                                                                N N N N N N N N H P O
                                                                                               290905
290905
290905
200001
200001
200001
200001
200001
200001
200001
200001
200001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3
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2094S
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301530 2207K UNDERWAY AS BEFORE
301607 2204K ANCHORED IN BERTH #54
310745 2204K UNDERWAY PICKING UP INSTRUMENTATION STATIONS 311200 2207K UNDERWAY AS BEFORE
311421 2204K ANCHORED BERTH 54
320750 2204K UNDERWAY TO TARGET ARRAY
321122 2207K MODRED TO MOORING BUOY IN TARGET ARRAY
321345 2207K UNDERWAY PICKING UP INSTRUMENTATION STATIONS
321543 2204K ANCHORED IN BERTH 54
330745 2204K UNDERWAY TO TARGET A AY
331210 26959 MOORED TO USS WILDCAT IN BERTH 370
331317 26958 UNDERWAY
331345 2793M ANCHORED IN LEE OF ENYU ISLAND
331744 2793M UNDERWAY TO SHIFT BERTHS
331810 1992M ANCHORED
381745 1992M UNDERWAY
381845 2003J ANCHORED BERTH 88
391753 2003J UNDERWAY
391812 2004C ANCHORED IN BERTH 31
510832 17010 ALONGSIDE CARTERET2
511040 17010 LEAVING
                        CARTERET2
531402 2201H ALONGSIDE LST-133
531702 2201H LEAVING
                        LST-133
560924 2204U ALONGSIDE LST-661
561205 2204U LEAVING
                        LST-661
561635 2202A ALONGSIDE LST-52
561755 2202A LEAVING
                        LST- 52
570907 2202A ALONGSIDE LST-52
571029 2202A LEAVING
                        LST- 52
571627 20006 ALONGSIDE RALPH TALBOT2
571832 2000G LEAVING RALPH TALBOT2
572014 2591M DEPARTED BIKINI LAGOON WITH USS RALPH TALBOT IN TOW EN
              ROUTE KWAJALEIN ON 26 AUGUST 1946
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USS **ONEOTA CALCULATED FILM BADGE DOSE !IN MREM)** 

DATE	TIME	LAGOON Water	TARGET SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM <b>TOTAL</b>
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		Q	0
JUL 4	A+3	0	0		0	0
JUL 5 T	HRU 24	0	1			1
JUL 25	B+0	0	0	0	0	1
JUL 26	B+1	0	Û	0	Û	1
JUL 27	B+2	0	0	1	1	2
JUL 28	B+3	30	0	59	09	91
JUL 29	B+4	16	0	43	59	150
JUL 30	B+5	11	0	31	42	192
JUL 31	B+6	17	0	26	43	235
AUG 1	B+7	15	0	21	36	271
AUG 2	B+0	7	0	18	25	296
AUG 3	B+9	0	0	16	16	312
AUG 4	B+10	Ų	0	14	14	326
AUG 5	B+11	Ů.	0	12	12	338
AUG 6	B+12	0	0	11	11	349
AUG 7	B+13	2	0	10	12	361
AUG 8	B+14	10	0	9	19	380
AUG 9	B+15	9	0	a	17	397
AUG 10	B+16	2	0	a	10	407
AUG 11	B+17	0	0	7	7	414
AUG 12	B+18	!j	0	7	7	421
AUG 13	B+19	0	0	6	6	427
AUG 14	B+20	1	0	6	7	434
AUG 15	B+21	5	0	5	10	444
AUG 16	8+22	4	0	5	9	453
AUG 17	B+23	4	0	5	9	462
AUG 18	B+24	4	0	4	8	470
AUG 19	B+25	2	0	4	6	476
AUG 20	B+26	3	0	4	7	483
AUG 21	B+27	3	0	4	7	490
AUG 22	B+28	2	10	4	16	506
AUG 23	B+29	1	0	4	5	511
AUG 24	B+30	0	0	3	3	514
AUG 25	B+31	1	38	3	42	556
AUG 26	B+32	1	22	3	26	582

SHIP: USS ORCA (AVP-49)

CREW SIZE: 215

GROUP: NAVAL AIR

MISSION: ORCA arrived at Bikini on May 7, 1946, and began to prepare for the operation. The ship had been assigned to the Seaplane Tender Unit, and served as a terminal for the seaplane shuttle between Ebeye (Kwajalein) and Bikini. ORCA was also prepared to assist in air-sea rescue operations in the event of an emergency.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION	
			1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 fe	et)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini.: 0.262 REM

Date unit departed Bikini: August 12, 1946 (BAKER t 18)

Ship contamination factor when departing Bikini: 7 (this value is for **use** with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS ORCA

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PLACE REMARKS
TIME
0!18
      2591M ENTRANCE TO BIKINI LAGOON
011921 2597K ANCHORED BERTH 265
030979 2597K UNDERWAY FROM BERTH 285
021042 24056 ANCHORED BERTH 22
0409u. 240
             ANCHORED AS BEFORE
250835 2591M OBSERVED SHOT BAKER FROM A DISTANCE OF 10 MILES
261344 2591M ENTERED BIKINI LAGOON
261410 2194M ANCHORED IN BERTH "A"
281609 2194M UNDERWAY FROM BERTH "A"
281655 20940 ANCHORED IN BERTH 500 YARDS WEST OF BERTH "A"
290828 20940 UNERWAY TO SHIFT BERTHS
290945 25940 ANCHORED IN BERTH "F"
             UNDERWAY FROM BERTH "F"
300755 25940
300849 2405G ANCHORED BERTH 22
331655 2405G UNDERWAY FROM BERTH 22
       2294T ANCHORED BERTH 384
  18
340717 2294T UNDERWAY FROM BERTH 384
340806 2405G ANCHORED BERTH 22
341235 24056 SHIFTED FUEL FOR 4.5 DEGREE LIST TO FORT TO SCRAPE WAT
              ER LINE ON STARBOARD SIDE
341620 24056
              UNDERWAY FROM BERTH 22
341717 2294T
              ANCHORED BERTH 384
350724 2294T
              UNDERWAY FROM BERTH 384
             ANCHORED BERTH 22
350806 2405G
351532 2405G UNDERWAY FROM BERTH 22
351631 2294T
              ANCHORED BERTH 384
360725 2294T
              UNDERWAY FROM BERTH 384
360805 2405G ANCHORED BERTH 22
361552 2405G
             UNDERWAY FROM BERTH 22
361637 2294T
              ANCHORED IN BERTH 354
370705 2294T
              UNDERWAY FROM BERTH 384
370751 2405G ANCHORED BERTH 22
371606 2405G UNDERWAY FROM BERTH 22
371646 2294T
             ANCHORED BERTH 384
380708 2294T UNDERWAY FROM BERTH 384
380751 2405G
             ANCHORED IN BERTH 22
431408 2405G
              UNDERWAY FROM BERTH 22
431449 2591M DEPARTED BIKINI LAGOON ENROUTE KWAJALE IN 112 AUGUST 194
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USS -RCA CALCULATED FILM BADGE DOSE (IN MREM)

AUG 12		<b></b>									AUG 1	CA.		L4	L1	ы	М	N		4	JUL 3	ы	UL 1	DATE	
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0	<b>ɔ</b>	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0	0	0	0	0	0	0		TARGET	
ביה נ	"Л	6	6	7	7	∞	ģ				16			7	0	0	0	0						SHIP CONTAMINATION	
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262	л.	4	L4		ď	ω	169	156	142	125	$\circ$	71	40	9	0	0	0	0	0	0	0	0		CUM	

SHIP: USS OTTAWA (AKA-101)

CREW SIZE: 67

GROUP: TRANSPORT

MISSION: As part of the transport unit, OTTAWA arrived at Bikini Atoll on March 20, 1946, to prepare for CROSSROADS.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
			1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-I support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.063 REM

Date unit departed Bikini: August 2, 1946 (BAKER + 8)

Ship contamination factor when departing Bikini: 15 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS OTTAWA

TIME	PLACE	REMARKS
		****
01 0	2591M	OBSERVED SHOT ABLE FROM A DISTANCE IN EXCESS OF 15 MIL
		ES
011731	2591M	ENTERED BIKINI LAGOON
011807	2196R	ANCHORED IN BERTH #336
021458	2196R	UNDERWAY
021554	2405P	ANCHORED IN BERTH #35
042400	2405P	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER FROM A POSITION OF 25 MILES TO THE
		EAST
281611	2591M	ENTERED BIKINI LAGOON
281638	21957	ANCHORED IN BERTH #359
281837	2195Y	UNDERWAY <b>for rongelap atoll</b>
281915	2591M	DEPARTED BIKINI LAGOON
310558	2591M	RE-ENTERED BIKINI LAGOON
310709	2405P	ANCHORED ird BERTH #35
331600	2405P	UNDERWAY FROM ANCHORAGE
331658	2591M	DEPARTED BIKINI LAGOON ON 2 AUGUST 1946 ENROUTE POR
		T HUENEME; CGLIFORNIA

USS OTTAWA CALCULATED FILM BADGE DOSE! IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	0	Û		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 T	HRU 24	0	0			0
JUL 25	B+0	0	Q	0	0	0
JUL 26	B+1	į.j	j.j	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	0	<u>ļ:</u>	0	0	0
JUL 29	B+4	0	0	0	0	0
JUL 30	B+5	Ų	0	0	0	0
JUL 31	B+6	9	0	10	19	19
AUG 1	B+7	14	i-i	11	25	44
AUG 2	8+8	10	0	9	19	63

SHIP: USS PALMYRA (ARST-3)

CREW SIZE: 299

GROUP: SALVAGE

MISSION: PALMYRA served as the flagship to the Salvage Unit. The duties of this unit included: selecting beaching areas, facilitating the salvaging of damaged ships, performing all underwater work involving divers both before and after the tests, buoy placement, fire fighting and general salvage work. As a floating salvage base, PALMYRA carried assorted salvage equipment and housed a pool of salvage personnel.

SHOT DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIHLD)	TYPE DETONATION
	ABLE	July 46 (0900)	23 KT	Air Burst (+520 feet)
	BAKER	25 July 46 (0835)	23 KT	Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.378 REM

Date unit departed Bikini: September 5, 1946 (BAKER + 42)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS PALMYRA

TIME PLACE	REMARKS
0 <b>1</b> 0900 2591M	OBSERVED SHOT ABLE BEARING 265 DEGREES 28 MILES DISTANCE
011250 2591M	ENTERED BIKINI LAGOON AFTER SHOT ABLE
011327 2795A	ANCHORED IN BERTH ABLE
040956 2795A	UNDERWAY TO SHIFT BERTHS
041045 21020	ANCHORED IN BERTH 141A
250835 2591M	OBSERVED SHOT BAKER FROM A DISTANCE OF 12 MILES
251056 2591M	ENTERED BIKINI LAGOON AFTER SHOT BAKER
251130 27 <b>94</b> H	ANCHORED <b>off</b> enyu <b>island</b>
260001 2794H	ANCHORED AS BEFORE
261602 2794H	UNDERWAY TO NEW ANCHORAGE
261837 2695C	ANCHORED IN BERTH 344
281522 26950	UNDERWAY TO NEW ANCHORAGE
281618 2093C	ANCHORED SOUTH OF BERTH 380
301422 2093C	UNDERWAY TO NEW ANCHORAGE
301448 2794C	ANCHORED IN BERTH MIKE
331417 2794C	U WAY TO NEW ANCHORAGE
331620 2 <b>594M</b>	MOORED ALONGSIDE USS WILDCAT
331816 2594M	DerwgY
331850 20930	ANCHORED SOUTH OF BERTH 330
340858 20930	UNDERWAY TO SHIFT BERTHS
340932 27940	GNCHORED IN ANCHORAGE MIKE
571845 2591M	DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN 5 SEPTEMBER 1 946

USS PALMYRA CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON <b>WATER</b>	TARGET SHIPS	SHIP CONTAMENATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	A+0	0	0	- · · · · -	0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	Ö
JUL 4	A+3	0	0		0	0
JUL 5 TO	<b>HRU 24</b>	0	0			Ō
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	1	0	4	5	5
JUL 28	B+3	3	0	22	25	30
JUL 29	B+4	0	0	15	15	45
JUL 30	B+5	0	0	13	13	58
JUL 31	B+6	1	0	17	18	76
AUG 1	B+7	1	0	16	17	93
AUG 2	B+8	0	0	15	15	108
AUG 3	B+9	0	0	13	13	121
AUG 4	B+10	0	0	11	11	132
AUG 5	B+11	0	0	10	10	142
AUG 6	B+12	0	0	9	9	151
AUG 7	B+13	3	0	10	13	164
AUG 8	B+14	10	0	9	19	183
GUG 9	B+15	9	0	8	17	200
AUG 10	B+16	8	0	8	16	216
AUG 11	B+17	7	0	7	14	230
AUG 12	B+18	6	0	7	13	243
AUG 13	B+19	6	0	6	1 2	255
AUG 14	B+20	5	0	6	11	266
AUG 15 AUG 16	B+21 B+22	5 4	0	5	10 9	276
AUG 13	B+23	4	<b>0</b> 0	5 5	9	285 294
AUG 18	Et24	3	Ŏ	4	7	301
AUG 19	B+25	3	Ö	4	7	30 <b>8</b>
AUG 20	B+26	3	0	4	7	315
AUG 21	B+27	3	Ö	4	7	322
AUG 22	8+28	2	0	4	6	328
AUG 23	B+29	2	0	4	6	334
AUG 24	B+30	2	0	3	5	339
AUG 25	B+31	2	0	3	5	3 4 4
AUG 26	B+32	1	0	3	4	348
AUG 27	B+33	1	0	3	4	352
AUG 28	B+34	1	0	3	4	356
AUG 29	B+35	1	0	3	4	360
AUG 30	B+36	1	0	3	4	364
AUG 31	B+37	1	0	3	4	368
SEP 1	B+38	0	0	2	2	370
SEP 2	B+39	0	0	2	2	372
SEP 3	B+40	0	0	2	2	374
SEP 4	B+41	0	0	2	2	376
SEP 5	B+42	0	0	2	2	378

SHIP: USS PANAMINT (AGC-13)

CREW SIZE: 591

GROUP: TRANSPORT

MISSION: PANAMINT arrived at Bikini Atoll on June 29, 1946. The ship was assigned to the transport group and served as headquarters for Congressional, scientific, press and United Nations observers.

SHOT DATA:	TEST	DATE (TIME)	YIELD	TYPE DETONATION
		July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.000 REM

Date unit departed Bikini: July 27, 1946 (BAKER + 2)

Ship contamination factor when departing Bikini: 0 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS PANAMINT

TIME PLACE	REMARKS
010902 2591M	OBSERVED SHOT ABLE BEARING 210 DEGREES 18 MILES
011515 2591M 011541 25988	ENTERED BIKINI LAGOON ANCHORED IN BERTH 250
020 <b>954</b> 2598B 0211 <b>45</b> 22065	UNDERWAY TO NEW ANCHORAGE ANCHORED IN BERTH 20
042400 22055	ANCHORED AS BEFORE
250835 2591M 251645 2591M	OBSERVED SHOT BAKER BEARING 300 DEGREES 9 MILES ENTERED BIKINI LAGOON AFTER SHOT BAKER
251735 21940 260001 21940	ANCHORED IN BERTH 382 ANCHORED AS REFORE
271819 21940	UNDERWAY FROM ANCHORAGE
271836 2591M	DEPARTED BIKINI LAGOON ENROUTE PEARL HARBOR VIA KWAJAL EIN 27 JULY 1946

USS PANAMINT CALCULATE@ FILM BADGE DOSE (IN MREM)

DGTE	TIME	LAGOON Water	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	Ō	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 m	<b>HRU 24</b>	0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	Ö	0	0	0	0

SHIP: USS PGM-23

CREW SIZE: 39

GROUP: SERVICE

MISSION: PGM-23 arrived at Bikini on May 5, 1946, as a member of the Dispatch Boat Pool Unit. During CROSSROADS it was assigned to perform lagoon radiological patrols. These were conducted in the first few days following each shot. The ship then performed boat pool duties.

SHOT DATA: <u>TEST</u> <u>D A T E</u> ( T I <u>MYIELD</u> <u>TYPE DETONATION</u>

ABLE 1 July 46 (0900) **23** KT Air Burst (+520 feet)
BAKER 25 July 46 (0835) **23** KT Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.), Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.935 REM\*

Date unit departed Bikini: August 25, 1946 (BAKER + 31)

Ship contamination factor when departing Bikini: 12 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS PGM-23

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM A DISTANCE IN EXCEES OF 12 MILES
011130	2591M	ENTERED BIKINI LAGOON
011200	2404M	ESTIMATED POSITION
011215	2205W	ESTIMATED POSITION (STARTING SURVEY OF AREA BRAZIL)
011500	2105H	HEADING BACK OUT THROUGH TARGET ARRAY (ESTIMATED POSIT
		IONI
011630	1112M	ARRIVED AMEN ISLAND
011715	1112M	DEPARTED AMEN ISLAND
011857	21057	ANCHORED IN AREA BRAZIL
020708	2105V	UNDERWAY TO CONDUCT RAD SAFE SURVEY (PROBABLY WESTERN
		REGION OF BIKINI LAGOON)
021452		ANCHORED BERTH #40
021615		CONDUCT SURVEY - LOOKING FOR "HOT" SPOTS
021816		ANCHORED IN BERTH 40
030 <b>65</b> 3	2505W	UNDERWAY TO CONDUCT SURVEY (PROBABLY WESTERN REGION OF
		LAGOON)
031201		ANCHORED
031345		UNDERWAY TO CONDUCT SURVEY (LOOK ING FOR HOT SPOTS)
031818		MOORED ALONGSIDE USS BARTON
031821		INDERWAY TO ANCHORAGE
031911		ANCHORED IN BERTH #21
040830		UN RW
040910		ANCHORED (PGM-24 CAME ALONGSIDE AT 1035)
042400		ANCHORED A S BEFORE
250835	79 <b>7</b> 1M	DBSERVED SHOT BAKER FROM A DISTANCE IN EXCESS OF 3 MILES
251009	2591M	ENTERED BIKINI LAGOON
251100		ESTIMATED POSITION
251300	1803D	ESTIMATE@ POSITION
251630		ESTIMATED POSITION
251730		ESTIMATED POSITION
251835		ANCHORED N BERTH #251
260001		ANCHORED AS BEFORE
260743		UNDERWAY ON RAD SAFE SURVEY IN BIKINI LAGOON
261702		ANCHORED (OCEANOGRAPHERS L E F T SHIP A T 1657)
	2694M	
		NEAR USS HAVEN
		UNDERWAY ON RAD SAFE SURVEY
270800		ESTIMATED POSITION
	1096M	
271158		ANHOURED IN VICINITY OF USS AFFLING (SHIP EVACUATED AT 1815)
281550		UNDERWAY TO SHIFT ANCHORAGE
		ANCHORED NEAR USS APPLING
282045	2092K	UNDERWAY TO SHIFT ANCHORAGE

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USS PGM 23 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	At ()	1	0		1	1
JUL 2	A+1	3	0		3	4
JUL 3	A+2	0	0		0	4
JUL 4	A+3	0	0		0	4
JUL 5 TH	RU 24	0	0		-	4
JUL 25	B+0	38	0	59	97	101
JUL 2 6	B+1	8	0	73	81	182
JUL 27	B+2	0	0	2 <b>9</b>	29	211
JUL 28	B+3	0	0	18	18	229
JUL 29	B+4	0	0	12	12	241
JUL 30	B+5	7	0	46	53	294
JUL 3 1	B+6	1 1	0	62	73	367
AUG 1	B+7	16	0	52	68	435
AUG 2	B+8	7	0	46	53	488
AUG 3	B+9	7	0	39	46	534
AUG 4	B t 10	0	0	34	34	568
AUG 5	B+11	0	0	30	30	598
AUG 6	B+12	0	0	27	27	b 25
AUG <b>7</b>	B+13	5	0	25	30	655
AUG 8	B+14	6	0	22	28	683
AUG 9	B+15	9	0	20	29	712
AUG 10	B+16	6	0	19	25	737
AUG 11	B+17	7	0	17	24	761
AUG 12	B+18	6	0	16	22	<i>783</i>
AUG 13	B+19	5	0	15	20	803
AUG 14	B+20	5	0	1 4	19	822
AUG 15	B+21	3	0	13	16	838
AUG 16	B+22	4	0	12	16	854
AUG 17	B+23	4	0	12	16	87 O
AUG 18	B+24	3	0	11	1 4	884
AUG 19	B+25	3	0	11	1 4	898
AUG 20	B+26	3	0	10	13	911
AUG 21	B+27	3	0	10	13	924
AUG 22	B+28	2	0	9	11	935
AUG 23	B+29	2	0	9	11	946
AUG 24	B+30	2	0	8	10	956
AUG 25	8+31	1	0	8	9	965

SHIP: USS PGM-24

CREW SIZE: 48

GROUP: SERVICE

MISSION: PGM-24 arrived at Bikini on May 14, 1946, as a member of the Dispatch Boat Pool Unit. During CROSSROADS it was assigned to perform lagoon radiological patrols. These were conducted in the first few days following each shot. The ship then performed boat pool duties.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
	ABLE	1 July 46 <b>(0900)</b>	23 KT	Air Burst (+520 feet)
	BAKER	25 July 46 <b>(0835)</b>	23 KT	Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 1.293 REM\*

Date unit departed Bikini: August 25, 1946 (BAKER + 31)

Ship contamination factor when departing Bikini: 12 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS PGM-24

TIME PLACE	REMARKS
010900 2 <b>591M</b>	DBSERVED SHOT ABLE FROM AREA "FRANKLIN"
	ENTERED BIKINI LAGOON
	ARRIVED AREA CHILE (HEADING 310 DEG)
	ESTIMATED POSITION
011530 2201L	
011830 2201L	
011853 2302K	
020755 2302K	UNDERWAY ON RAD SAFE PATROL TO NORTHERN PART OF TARGET
	A AY
021000 2002A	IN TARGET ARRAY (ESTIMATED POSITION)
021143 2201P	LYING TO ASTERN OF USS NEVADA
021430 2201P	UNDERWAY TO WESTERN EDGE OF LAGOON
021530 <b>8</b> 904M	ARRIVED ON STATION
021548 8904M	UNDERWAY TAKING WEST-EAST SURVEY
021935 23040	ARRIVED LAST SECTOR NEAR USS HAVEN
021945 2304C	UNDERWAY TO ANCHORAGE
022004 2302D	ANCHORED
030710 2302D	UNDERWAY TO USS HAVEN
030723 230 <b>4B</b>	LAYING TO OFF USS HAVEN
030906 2304B	UNDERWAY TO RAD SAFE PATROL
031243 <b>8</b> 904M	LA/ING TO IN SECTOR 8904
031545 8904M	UNDE AY TO NEXT STATION
031820 2304B	ANCHORED IN VICINITY OF USS HAVEN
041000 2304B	UNDERWAY TO SUEVEY WESTERN PORTION OF LAGOON
041035 2000R	MOORED ALONGSIDE PGM-23
041123 2000R	UNDERWAY ON RAD SAFE PATROL OF WESTERN PART OF LAGOON
041400 8904M	ARRIVED WESTERN PART OF LAGOON (ESTIMATED POSITION)
041500 8904M	DEPART WESTERN PORTION OF LAGOON
041730 2304B	ANCHORED OFF BOW OF USS HAVEN
250835 2591M	OBSERVED SHOT BAKER FROM A R E A "FRANKL I N "
251225 2591M	ENTER BIKINI LAGOON
251245 2599N	ARRIVED EA 259
251320 2504V	UNDERWAY TO EMBARK BIKINI LANDING PARTY WATER IN VICINITY OF LCT-1113 REPORTED CLEAR (OPERATIO
231320 23040	NS REPORT)
251330 2406Y	ARRIVED IN VICINITY OF BIKINI ISLAND (LYING TO)
251435 2406Y	CAUGHT ON REEF TRYING TO AVOID CONTAMINATED WATER
251452 2406Y	FREE FROM REEF AND LYING TO
251515 2406Y	UNDERWAY TO 2598E (OFF ENYU ISLAND)
251622 2598E	ANCHORED
251725 2598E	UNDERWAY TO NEW ANCHORAGE
251759 2594I	ANCHORED NEAR USS MT MCKINLEY (FGM CREW EVACUATED!
260001 2594I	ANCHORED AS BEFORE
260830 25941	UNDERWAY TO GRID AREA 0505
261050 0505M	ARRIVED GRID AREA 0505
261500 0505M	DEFARTED AREA FOR USS HAVEN (TIME BASED ON ESTIMATED 2

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281825
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2821112
2911118
2911240
291256
300751
300751
301500
301635
301700
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ANCHORED IN VICINITY OF USS HAVE
UNDERWAY TO GRID AREAS 1798 AND
ARRIVE ASSIGNED AREA (ESTIMATED
DEFART ASSIGNED AREA ANCHORED NEAR USS HAVEN ANCHORED AS BEFORE DEPARTED BIKINI LABOON ANCHORED NEAR USS HAVEN (BER-UNDERWAY TO FLUSH SALT WATER EXITED BIKINI LAGOON RE-ENTERED BIKINI LAGOON DEP UNDERWAY TO NORTHWESTERN ARRIVED BRID OREO 94 E DEPARTED OREO ANCHORED NEAR USS HOVEN DEPARTED BIKINI LA300N RE-ENTERED BIKINI LAGOO MOORED ALONGSIDE USS W UNDERWAY UNDERWAY TO NAMU SLOND ARRIVED NAMU ISLAN: (RoD UNDERWAY UNDERWAY ALONGSIDE UNDERWAY TO USS HAVEN ANCHORED ANGE 290 DEG PATROLLING WES COMPLETED PATROL (ESTIMATED ANCHORED NEFR USS HAVEN DEPARTED FOR NEW ANCHORAGE (0992 IS UNDERWAY ANCHORED  $\Box$ UNDERWAY ANCHORED ANCHORED COMPLETED PATROL ARRIVED TOWARD SSI ARTED "ATHEN" ENTERED BIKINI LAGOON VER AMEN ISLONS (ROS HAVE D ALONGSIDE USS WILDCAT ENYU ISLAND "DAHEN" ISLAND (PROBABLY AMEN DEG PATROLLING WESTWARD <del>-</del> TO ANCHORAGE TO ANCHORAGE IN VICINITY ON DECONTAMINATION NEOR USS HAVEN BUISIDE TO GRID TO GRID USS HAVEN Z DMEN ISLAND LASOON ON LAGOON) ARRIVED AREA 0990N AREA 1800 ISLANE COURSE QF SSU (AMEN ISLAND) (BERTH SAF SpF ISLAND CHANGE 6.4 CONCLOR WOULD NO4 СЛ POSITION) HAVEN HAVEN 252 m m AUGUS TANKS 4 m T 4 383) m D **3** 1898 FOSION OUTSIDE 0 -(P6M = 20 --\_SH0Rέ) ASH<sub>o</sub>R<sub>E</sub>) ഗ 19 AREA TATION; HEADING ISLAND) AND CREW (2) 9 HEADING 26940 TIME) LAGOON EVACUATED) COURSE H<sub>O</sub>L<sub>W</sub> 140 TOWAR DEG  $\Box$ 

US. 5 FGM 24 CALCULATED FILM EADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	CONTAMINATION	DAILY TOTAL	CUM <b>TOTAL</b>
JUL 1	At0	4 1	0		41	41
JUL 2	A+1	13	0		13	<b>54</b>
JUL 3	A+2	Ô	0		0	<b>54</b>
JUL 4	A+3	0	0		0	54
JUL 5 T	HRU 24	0	0			<b>54</b>
JUL 25	B+0	38	0	101	139	193
JUL 26	B+1	1	0	<b>54</b>	55	248
JUL 27	B+2	33	0	150	183	431
JUL 28	B+3	Ō	0	127	127	558
JUL 29	B+4	0	0	88	88	646
JUL 30	B+5	8	0	71	79	725
JUL 31	B+6	17	0	64	81	806
<b>AUG</b> 1	B+7	14	0	52	66	872
AUG 2	B+8	7	0	46		925
AUG 3	B+9	0	0	39	39	964
AUG 4	B+10	0	0	34	34	998
AUG 5	B+11	Ü	0	30	30	1028
AUG 6	B+12	0	0	27	27	1055
AUG 7	B+13	0	0	25	25	1080
AUG El	B+14	0	Û	22	22	1102
AUG 9	B+15	0	0	20	20	1122
AUG 10	B+16	0	0	19	19	1141
<b>AUG</b> 11	B+17	0	0	17	17	1158
AUG 12	B+18	4	Ō	16	20	1178
AUG 13	B+19	6	0	15	21	1199
AUG 14	B+20	5	0	14	19	1218
AUG 15	B+21	5	0	13	18	1236
AUG 16	B+22	4	0	12	16	1252
AUG 17	B+23	4	0	12	16	1268
AUG 18	B+24	3	0	11	14	1282
AUG 19	B+25	3	0	11	14	1296
AUG 20	B+26	3	0	10	13	1399
<b>AUG</b> 21	B+27	3	0	10	13	1322
AUG 22	B+28	2	0	9	11	1333
AUG 23	B+29	2	0	9	11	1344
AUG 24	<b>B</b> +30	2	0	8	10	1354
AUG 25	B+31	0	0	8	8	1362

SHIP: USS PGM-25

CREW SIZE: 53

GROUP: SERVICE

MISSION: PGM-25 arrived at Bikini on May 15, 1946, as a member of the Dispatch Boat Pool Unit. During CROSSROADS it was assigned to perform lagoon radiological patrols. These were conducted in the first few days following each shot. The ship then performed boat pool duties.

SHOT DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYTELD	TYPE DETONATION	
		1 July 46 <b>(0900)</b> 25 July 46 <b>(0835)</b>		Air Burst (+520 feet) Shallow Underwater (-90 feet)	

- PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.
- RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 1.061 REM\*

Date unit departed Bikini: August 10, 1946 (BAKER + 16)

Ship contamination factor when departing Bikini: 28 (this value is for use with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS PGM-25

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TIME PLACE REMARKS
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010900 2591M OBSERVED SHOT ABLE FROM A DISTANCE IN EXCESS OF 15 MIL
011130 2591M ENTERED BIKINI LAGOON
011200 25010 ESTIMATED POSITION
011300 2201M ENTERED RADIBACTIVE AREA - IN AREA DENMARK (BACKED CLE
             AR OF AREA) (ESTIMATED POSITION)
011315 2401M STEAMING IN ASSIGNED SECTOR (ESTIMATED POSITION)
011545 2401M LYING TO IN SECTOR DENMARK (ESTIMATED POSITION)
011630 2401M COMMENCING NEW RUN IN AREA DENMARK (ESTIMATED POSITION
011700 2301M LYING TO (ESTIMATED POSITION)
011800 2301M UNDERWAY TO NEW ANCHORAGE (ESTIMATED TIME AND POSITION
011850 2598W ANCHORED IN NIGHT STATION
011930 2598W UNDERWAY TO PGM-24
012000 2302K ALONGSIDE PGM-24 (ESTIMATED TIME)
012025 24026 ANCHORED IN VICINTY OF USS HAVEN
020713 24026 UNDERWAY ON RAD SAFE PATROL
021422 2304B ANCHORED IN BERTH #34A
021615 2304B UNDERWAY TO START NEW RAD SAFE SURVEY
021820 21001 ANCHORED IN NIGHT STATION
030538 21001 UNDERWAY ON RAD SAFE PATROL
030800 2304B LYING TO OFF USS HAVEN
030930 2304B UNDERWAY ON NEW RAD SAFE PATROL
031835 2102E ANCHORED
041019 2102E UNDERWAY ON RAD SAFE PATROL
041516 2305M ANCHORED
042400 2305M ANCHORED AS BEFORE
250835 2591M OBSERVED SHOT BAKER FROM A DISTANCE IN EXCESS OF 10 MI
             LES
251040 2591M ENTERED BIKINI LAGOON
251145 2504V LYING TO IN OUTER EDGE OF AREA CHILE
251300 2502C ESTIMATED POSITION
251610 2504V UNDERWAY
251655 2699F ANCHORED
251743 2699F UNDERWAY TO NEW ANCHORAGE (CONTAMINATED WATER)
251857 1998M ANCHORED
252121 1998M UNDERWAY TO NEW ANCHORAGE
252147 2397N ANCHORED
252300 2397N UNDERWAY TO NEW ANCHORAGE
252325 23971 ANCHORED
260009 2397T UNDERWAY TO NEW ANCHORAGE
260025 2395A ANCHORED
260145 2395A UNDERWAY TO NEW ANCHORAGE
260220 2693G ANCHORED
260905 26936 UNDERWAY FOR RADIOLOGICAL SAFETY TESTS IN BIKINI LAGOO
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261000 1598A ESTIMATED POSITION
261030 1700A ESTIMATED
261100 1698W ESTIMATED
261200 1900M EST I MATED
261720 2594T ANCHORED IN VICINITY OF USS HAVEN (SHIP EVACUATED AT 2
              120)
270647 2594T UNDERWAY TO CONDUCT RAD SAFE SAFETY PATROL
271537 2594T ANCHORED IN VICINITY OF USS HAVEN
280705 2594T UNDERWAY FOR RAD SAFE SURVEY IN TARGET ARRAY
280800 2200A ESTIMATED
281700 2000A ESTIMATEE
281748 2193B ANCHORED
291231 2193B UNBERW TO
                             HAVEN
291245 2293A ALONGSIDE USS HAVEN
291341 2293A
                EERWAY TO NEW ANCHORAGE
291550 22940 ANCHORED
300647 2294C UNDERWAY TO CONDUCT RAD SAFE PATROL IN BIKINI LAGOON
301431 0791M ARRIVED AT BIREN ISLAND
301635 0791M UNDERWAY TO ERIK ISLAND
301700 0291M ARRIVED AT ERIK ISLAND (ESTIMATED TIME)
301810 0291M UNDERWAY TO ANCHORAGE
301910 2304B ANCHORED IN VICINITY OF USS HAVEN
310805 2304B UNDERWAY ON RAD SAFE SURVEY OF VARIOUS ISLANDS
311208 9197M ANCHORED OFF ARAN ISLAND
311420 9197M UNDERWAY TO REEVE ISLAND
311615 0691M ARRIVED VICINITY OF REEVE ISLAND (ESTIMATED TIME!
311730 0691M UNDERWAY TO ANCHO GE
311835 2304B ANCHORED IN BERTH #34A
321235 2304B UNDERWAY FOR HIGH SPEED DECONTAMINATION RUN
321347 2591M DEPARTED BIKINI LAGOON
321630 2591M RE-ENTERED BIKINI LAGOON
321710 2304B ANCHORED IN BERTH #34A
                DE AY TO SHIFT BERTHS
331613 2304B
331700 21940 ANCHORED
331821 21940 UNDERWAY TO SHIFT BERTHS
331823 2294M AHCORED IN VICINITY OF USS HAVEN
341015 2294M UNEERW
                      FOR DECONTAMINATION RUN
341030 2591M EXITED BIKINI LAGOON (ESTIMATED TIME)
341300 2591M FE-ENTERED BIK IN I LAGOON
341322 2394A MOORED ALONGSIDE USS ALLEN SUMMER
341701 2394A UNDERWAY FOR DECONTAMINATION
341715 2591M EXITED BIKINI LAGOON
341746 2591M RE-ENTERED BIKINI LAGDON
341803 2294M ANCHORED IN VICINITY OF USS HAVEN
352400 2294M ANCHORED AS BEFORE
411815 2591M DEPARTED BIKINI LAGOON ON 10 AUGUST 1946 - ENROUTE GUA
              M VIA KWAJALEIN
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USS PGM-25 CALCULATED FILM BADGE DOSE (IN MREM)

DATE T	IME	LAGOON WATER	TARGET SHIPS	SHIP <b>CONTAMENATION</b>	DAILY TOTAL	cu M Total
JUL 1 A	t ()	5	0		5	5
JUL 2 A	+1	6	0		6	11
JUL 3 A	+2	0	0		0	11
JUL 4 A	+3	0	0		0	11
JUL 5 THRU	24	0	0			11
JUL 25 B	t ()	3 a	0	99	137	148
JUL 26 B	+1	a	0	147	155	303
JUL 27 B	+2	0	0	80	80	383
JUL 28 B	+3	13	0	115	128	511
JUL 29	+4	0	0	80	80	591
JUL 30 B	+5	4	0	60	64	655
JUL 31 B	+6	11	0	63	74	729
AUG 1 B	+7	14	0	52	66	7 9 5
AUG 2 B	+8	11	0	46	57	852
	+9	0	0	39	3 9	891
AUG 4 B	+10	0	Ó	34	34	925
AUG 5 B	+11	U	0	30	30	955
AUG 6 B	+12	3	0	27	3.0	985
	1+13	6	0	25	31	1016
	+14	9	0	22	31	1047
	1+15	9	0	20	29	1076
AUG 10 B	1+16	5	0	19	<b>2</b> 4	11

SHIP: USS PGM-29

CREW SIZE: 48

GROUP: SERVICE

MISSION: PGM-29 arrived at Bikini on May 15, 1946, as a member of the Dispatch Boat Pool Unit. During CROSSROADS it was assigned to perform lagoon radiological patrols. These were conducted in the first few days following each shot. The ship then performed boat pool duties.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
	ABLE	1 July 46 <b>(0900)</b>	23 KT	Air Burst (+520 feet)
	BAKER	25 July 46 (0835)	23 KT	Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 1.087 REM\*

Date unit departed Bikini: August 10, 1946 (BAKER + 16)

Ship contamination factor when departing Bikini: 28 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS PGM-29

261645 270722 270858 271058 271230 271315 280720 280720 281430	20000000000000000000000000000000000000	2007 300 300 300 300 300 300 300 300 300	111090 11120 11170 2072
24940 24940 22000 22000 2000E 2002K 2002M 2403B 1399M 1399M	22 22 22 22 22 22 22 22 22 22 22 22 22	<b>₽₽₽₽ 2000 000</b> <b>₽₽₽</b> 4400 000 ₽₽₽₽ 4400 000	5 0 3 5 0 5 0
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281553 2394M CROSSED BOWOF USS MT MCKINLEY
281728 2193J ANCHORED
281815 2193J UNDERWAY TO NEW ANCHORAGE
281827 2192E ANCHORED
291031 2192E UNDERWAY ON RAD SAFE SURVEY IN BIKINI LAGOON
291850 2192M ANCHORED
300855 2192M
             UNDERWAY TO COLLECT WATER SAMPLES IN BIKINI LAGOON
             TRANSFERRED "MIKE QUEEN" SET TO PGM-32 (POSITION ESTIM
300930 2200W
              ATED)
300945 2201L
              POSITION ESTIMATED - PROBABLY TOOK SAMPLES IN AREA DEN
              MARK
301515 24010
             DPERATION COMPLETE - PROCEEDING TO USS HAVEN
301536 2204N ANCHORED IN BERTH #55 (TOOK 20 MINUTES TO GET HERE!
312400 2204N ANCHORED AS BEFORE
321330 2204N U BRWAY
321435 2500M MO ,ED ALONGSIDE USS DIXIE
321533 2500M UNDERWAY ON DECONTAMINAT ION RUN IN LAGOON
321641 2204N ANCHORED IN BERTH #55
330835 2204N
                 E AY
330900 2098M LYING OFF USE ST CROIX
330930 2098M UNDERWAY FOR WATER SAMPLES
330945 2201L ESTIMATED POSITION - ASSUMED IN AREA DENMARK
331614 24010 SECURED FROM WATER SAMPLING
331745 2294T ANCHORED IN BERTH #384
341300 2294T UNDERWAY ON DECONTAMINATION RUN IN BIKINI LAGOON
341430 1094M ESTIMATED POSITION ~ ASSUMED TO BE ON AN EAST-WEST; WE
                -EAST RUN
341546 2295R ANCHORED IN BERTH #361
352400 2295R ANCHOREL! AS BEFORE
411815 2591M DEPARTED BIKINI LAGDON ON 10 AUGUST 1946 . ENROUTE KWA
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USS PGM-29 CALCULATED F LM B∾DG≷ DOSE N MR≷M)

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SHIP: USS PGM-31

CREW SIZE: 55

GROUP: SERVICE

MISSION: PGM-31 arrived at Bikini on May 29, 1946, as a member of the Dispatch Boat Pool Unit. During CROSSROADS it was assigned to perform lagoon radiological patrols. These were conducted in the first few days following each shot. The ship then performed boat pool duties.

SHOT DATA	A: <u>TEST</u>	<u>D A T E</u> ( T	I MYIELD	TYPE DETONATION
	ABLE BAKER	1 July 46 <b>(0900)</b> R 25 July 46 <b>(0835)</b>		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.812 REM\*

Date unit departed Bikini: August 10, 1946 (BAKER + 16)

Ship factor intensity when departing Bikini: 28 (this value is for use with the nomograph in Figure B-5)

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USS FGM 31 CALCULATED FILM BADGE DOSE (IN MREM)

DGTE	TIME	LAGOON WATER	TARGET SHIFS	SHIF CONTGMINGTION	DGILY <b>TOTAL</b>	CUM <b>TOTAL</b>
JUL 1	At0	8	0		8	8
JUL 2	A+1	1	0		1	9
JUL 3	A+2	0	0		0	9
JUL 4	A+3	0	0		0	9
JUL 5 TH	HRU 2 4	0	0			9
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JUL 25	B+0	38	0	a9	127	136
<b>JUL</b> 26	B+1	0	0	33	33	169
JUL 27	B+2	11	0	86	97	266
JUL 28	B+3	1	0	80	81	347
JUL 29	B+4	0	0	55	55	402
JUL 30	B+5	11	0	61	72	474
JUL 31	B+6	17	0	63	80	554
GUG 1	B+7	15	0	<b>5</b> 2	67	621
GUG 2	B+8	7	0	46	53	674
GUG 3	B+9	0	0	3 <b>9</b>	39	713
GUG 4	B+10	0	0	34	34	747
GUG 5	B+11	0	0	30	30	777
GUG 6	B+12	0	0	27	27	804
GUG 7	B+13	3	0	25	28	832
GUG 8	B+14	1.0	0	22	32	a64
GUG 9	B+15	9	0	20	29	893
GUG 10	B+16	0	0	19	19	912

SHIP: USS PGM-32

CREW SIZE: 27

GROUP: SERVICE

MISSION: PGM-32 arrived at Bikini during May 1946, as a member of the Dispatch Boat Pool Unit. During CROSSROADS it was assigned to perform lagoon radiological patrols. These were conducted in the first few days following each shot. The ship then performed boat pool duties.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION	
		ABLE BAKER	1 July 46 (0900) 25 July 46 <b>(0835)</b>	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 fee	t)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film **badge dose** for this unit from the various sources which it encountered while at Bikini lagoon. A daily total **and** cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 1.045 REM\*

Date unit departed Bikini: August 10, 1946 (BAKER + 16)

Ship contamination factor when departing Bikini: 28 (this value is for use with the nomograph in Figure B-5)

\*Total dose does not correspond to the cumulative dose in the Radiation Report because the **PGM's** were occasionally **evacuated** following Shot BAKER.

### PATH REPORT FOR THE USS PGM-32

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301000 2201L ESTIMATED
301829 2204D ANCHORED IN BERTH #34
311546 2204D UNDERWAY
311705 2500M MOORED ALONGSIDE USS DIXIE
311833 2500M UNDERWAY
311852 2204K ANCHORED IN BERTH #54
321251 2204K UNDERWAY LEAVING LAGOON FOR DECONTAMINATION
321300 2304M ESTIMATED POSITION IN CHANNEL
321400 2591M EXITED BIKINI LAGOON (ESTIMATED TIME)
321630 2591M RE-ENTERED BIKINI LAGOON (ESTIMATED TIME)
321730 22051 ANCHORED IN BERTH #20
331421 22051 UNDERWAY TO NEW ANCHORAGE
331705 2394P ANCHORED IN BERTH #384
331825 2394P UNDERWAY TO NEW ANCHORAGE
331845 2294M ANCHORED NEAR USS HAVEN
341022 2294M UNDERWAY
341130 9994M HIGH SPEED DECONTAMINATION RUN INSIDE BIKINI LAGOON (I
             NFERRED FROM DECKLOG)
341500 9994M ESTIMATED TIME AND POSITION - APPARENTLY AN EAST-WEST;
              WEST-EAST HIGH SPEED RUN
341653 2294C ANCHORED
352400 22940 ANCHORED AS BEFORE
411801 2591M DEPARTED BIKINI LAGOON ON 10 AUGUST 1946 - ENROUTE KWA
             JALEIN
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USS PGM: 32 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON <b>WATER</b>	TARGET SHIPS	SHIF CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	At0	55	0		55	55
JUL 2	At1	5	0		5	60
JUL 3	A+2	0	0		0	60
JUL 4	A+3	0	0		0	60
JUL 5 TH	IRU 24	0	0			60
JUL 25	B+0	61	0	127	188	248
JUL 26	B+1	7	0	78	85	333
JUL 27	B+2	5	0	82	87	420
JUL 28	Et3	1	0	72	73	493
JUL 29	B+4	2	0	57	59	552
10F 20	B+5	13	0	66	79	631
JUL 31	B+6	18	0	64	82	713
AUG 1	B+7	1 4	0	52	66	779
AUG 2	B+8	10	0	46	56	835
AUG 3	B+9	0	0	39	39	874
AUG 4	B+10	0	0	34	34	908
AUG 5	B+11	0	0	30	30	938
AUG 6	B+12	0	0	27	27	965
AUG 7	B+13	4	0	25	29	994
AUG 8	Et14	9	0	22	31	1025
AUG 9	Et15	9	0	20	29	1054
AUG 10	B+16	5	0	19	24	1078

SHIP: USS PHAON (ARB-3)

CREW SIZE: 160

GROUP: SERVICE

MISSION: PHAON arrived at Bikini on May 2, 1946, as a member of the Repair and Service Unit. The duties of this unit included repairing, towing, and salvaging ships and supplying provisions. This unit also provided a Fleet Post Office, a motion picture exchange, as well as recreation, welfare, and legal facilities.

SHOT DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIHLD)	TYPE DETONATION
		July 46 <b>(0900)</b>   25 July 46 <b>(0835)</b>	23 <b>KT</b> 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes **and** begins I July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.331 REM

Date unit departed Bikini: August 23, 1946 (BAKER + 29)

Ship contamination factor when departing Bikini: 4 (this value is for use with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS PHAON

TIME	PLACE	REMARKS
010900	2591M	AT TIME OF SHOT ABLE PHAON WAS ANCHORED AT KWAJALEIN A BOUT 155 MILES SOUTHEAST OF BIKINI ATOLL
030350	2591M	ENTERED BIKINI LAGOON
030800	2503L	ANCHORED BERTH 115
042400	2503L	ANCHORED AS BEFORE
051200	9999A	PASSING SUMMARY 5 PLUS 18
051201	9999A	SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARGET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
		ULY THROUGH 24 JULY
051307	2503L	UNDERWAY
051400		ALONGSIDE ARKANSAS
091510	2101E	LEAVING ARKANSAS
250835	2591M	OBSERVED SHOT BAKER FROM A DISTANCE OF ABOUT 20 MILES
301620	2591M	ENTERED BIKINI LAGOON
301700	2503L	ANCHORED IN BERTH 115
331510	2503L	UNDERWAY TO SHIFT BERTHS
331615	2692D	ANCHORED - "B"(IONCHEBI IS.) 32 DEG "A"(ENYU IS.) 10
		1 DEG BUOY #4 337 DEG
380755	2692D	UNDERWAY TO SHIFT BERTHS
530945	2502A	RADSAFE SHIPS CLEARANCE BOARD (LT. COMDR. A.J. FISHER
		SENIOR MEMBER) CAME ABOARD; INSPECTED SHIP AND MADE TH
		E FOLLOWING RECOMMENDATIONS (SEE NEXT ENTRY)
530946	2502A	"THE SHIP IS SAFE FROM A RADIOLOGICAL STANDPOINT WITH
		THE EXCEPTION OF THE EVAPORATORS WHICH WILL BE CHECKED
		BY THE EVAPORATOR BOARD"
540949		UNDERWAY FOR KWAJALEIN
541032	2591M	EXITED BIKINI LAGOON ON 23 AUGUST 1946

USS PHAON CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON Water	TARGET SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 TH	IEU 24	0	13			13
JUL 25	B+0	0	0	0	0	15
JUL 26	B+1	0	0	0	0	13
JUL 27	B+2	Û	0	⊎	0	13
JUL 28	B+3	0	0	0	0	13
JUL 29	B+4	0	0	0	0	13
JUL 30	B+5	4	0	6	10	
JUL 31	B+6	14	Û	27	36	59
AUG 1	B+7	15	0	18	33	92
AUG 2	B+8	9	0	16	25	117
AUG 3	B+9	0	0	13	13	130
AUG 4	B+10	0	0	12	12	142
AUG 5	B+11	0	0	10	10	152
AUG 6	B+12	0	0	9	9	161
AUG 7	B+13	7	0	8	15	176
AUG 8	B+14	10	0	8	18	194
AUG 9	B+15	9	0	7	16	210
AUG 10	B+16	8	0	6	14	224
AUG 11	B+17	7	0	b	13	27
<b>AUG</b> 12	B+18	6	0	6	12	249
GUG 13	B+19	6	0	5	11	260
AUG 14	B+20	5	0	5	10	270
GUG 15	B+21	5	0	5	10	280
AUG 16	B+22	4	0	4	8	288
AUG 17	B+23	4	0	4	8	296
AUG 18	B+24	3	0	4	7	303 310
GUG 19	B+25	3	0	4	7	310
AUG 20 <b>GUG</b> 21	B+26	3	0	3	6	<b>316</b>
	B+27	3	0	3	6	322 327
AUG 22	B+28	2	0	3	5	327 731
AUG 23	B+29	1	0	3	4	331

SHIP: USS POLLUX (AKS-4)

CREW SIZE: 154

GROUP: SERVICE

MISSION: POLLUX arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As part of the Repair and Service Unit, POLLUX provided provisions or logistical support (fuel and water) to the other support ships participating in the operation.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)	<b>23</b> KT <b>23</b> KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.117 REM

Date unit departed Bikini: August 19, 1946 (BAKER + 25)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS POLLUX

TIME PLACE	REMARKS
010900 2591M 011800 2591M 011825 26976	ENTERED BIKINI LAGOON
021043 26976 021043 26976 021124 2402F	UNDERWAY TO SHIFT BERTHS
042400 2402H 051200 99996	ANCHORED AS BEFORE
051201 9999A	ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
201200 9999A 211200 9999A	
211200 77778 221200 9999 <i>6</i> 250835 2591M	CONCLUDING TIME ALONGSIDE LET-1187
360654 2591	MILES (PROCEEDING T O KWAJALEIN)
360740 2 <b>59</b> 4N 501449 24003	
501500 2591N	DEPARTED BIKINI LAGOON <b>on</b> 19 <b>August</b> 1946

USS POLLUX CALCULATED F | L | M | BADGE DOSE (IN MREM)

DATE	TIME	LAGOON Water	TARGET SHIFS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	Δ + Ā	0	0		0	0
JUL 2	A+1	2	0		2	2
JUL 3	A+2	0	0		0	
JUL 4	A+3	0	0		0	2 2
J U L 5	THRU 24	0	0		•	2
JUL 25	B+0	0	0	0	0	2
JUL 26	B+1	0	0	0	0	2
JUL 27	B+2	0	0	0	0	2
JUL 28	B+3	0	0	0	0	2
JUL 29	B+4	0	0	0	0	2
J 30	8+5	0	9	0	0	2
JUL 31	B+6	0	0	0	0	2
AUG 1	B+7	0	0	0	0	2
AUG 2	8+8	0	0	0	0	2
AUG 3	B+9	0	0	0	0	2
AUG 4	B+10	0	0	0	0	2
AUG 5	B+11	0	0	0	0	2
AUG 6	B+12	0	0	0	0	2
AUG 7	B+13	3	0	5	8	10
AUG a	B+14	10	0	5	15	25
AUG 9	B+15	9	0	4	13	38
A 10	B+16	8	0	4	12	50
AUG 11	B+17	7	0	4	1 1	61
AUG 12	B+18	6	0	3	9	70
AUG 13	B+19	6	0	3	9	79
AUG 14	B+20	5	0	3	8	87
AUG 15	B+21	5	0	3	8	95
AUG 16	B+22	4	0	3	7	102
AUG 17	B+23	4	0	2	5	108
AUG 18	B+24	3	0	2	5	113
AUG 19	B+25	2	0	2	4	117

SHIP: USS PRESERVER (ARS-8)

CREW SIZE: 85

GROUP: SALVAGE

MISSION: PRESERVER arrived at Bikini on May 28, 1946 to prepare for the operation. As a member of the Salvage Unit, PRESERVERS main duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
			July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 1.122 REM

Date unit departed Bikini: August 28, 1946 (BAKER + 34)

Ship contamination factor when departing Bikini: 4 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS PRESERVER

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PA AT 1418 TOWED YO-160 TO BERTH -- UNDERWAY AT 1625 TO
PA AT 0708 Macies ALONGSIDE YO-160 IN TOW -- ANCHORED YO-16
PA AT 0720 UNDERWAY FROM ALONGSIDE YO-160 AT 1043
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PA AT 1224 ALONGSIDE NAGATO FOR APPROXIMATELY I HOUR
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SHIP: USS PRESQUE ISLE (APB-44)

CREW SIZE: 194

GROUP: SERVICE

MISSION: PRESQUE ISLE arrived at Bikini on May 20, 1946, and began to prepare for the operation. As part of the Dispatch Boat Pool Unit, the ship provided services such as inter-atoll freight and passenger service; it also functioned as a barracks ship.

SHOT D	DATA:	<u>TEST</u>	D A T	<u>E</u> ( T	I MYIELD)	TYPE DETONATION	
		ADIE	1 T-1- 40	(0000)	22 KT	Air D / 520 f	
		ADLE	1 July 46	) (0700)	23 KT	Air Burst (+520 feet)	
		<b>BAKER</b>	25 July 40	6 (0835)	23 KT	Shallow Underwater (-90	feet)

PATH REPORT: This report contains **the** geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes **and** begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are **reproduced** in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film **badge dose** for this unit from the various **sources** which it **encountered** while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.280 REM

Date unit departed Bikini: August 19, 1946 (BAKER + 25)

Ship contamination factor when departing Bikini: 5 (this **value** is for use with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS PRESQUE ISLE

TIME	PLACE	REMARKS
010900	2591M	
		F BIKINI LAGOON
011910	2591M	ENTERED BIKINI LAGDON
011921	249JE	PASSED BUDY #4 ABEAM TO STARBOARD
011940	2595T	ANCHORED IN BERTH 369
031212	2595T	UNDERWAY TO SHIFT BERTHS
031258	25040	ANCHORED IN BERTH 95
042400	26040	ANCHORED AS BEFORE
250855	2591M	ENROUTE FROM BIKINI TO RONGELAP DURING SHOT BAKER
301825	2591M	ENTERED BIKINI LAGOON AFTER SHOT BAKER
301900	23948	ANCHORED IN BERTH 385
310827	23949	UNDERWAY TO SHIFT BERTHS
310925	26040	ANCHORED IN BERTH 95
331550	16040	UNDERWAY TO NEW ANCHORAGE
371655	28933	ANCHORED EAST OF BERTH TARE
380818	26939	UNDERWAY
380927	26040	ANCHORED IN BERTH 95
430911	25040	UNDERWAY TO BERTH 116
430913	25030	ANCHORED IN BERTH 116
451115	25030	UNDERWAY
451128	26040	ANCHORED IN BERTH 95
301540	26040	UNDERWAY
501736	2591M	DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN 19 AUGUST 194
		6

USS PRESQUE ISLE CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON Water	TARGET SHIPS	SHIF CONTAMINATION	ILY <b>TOTAL</b>	cut1 TOTAL
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	A+2	0	0		0	1-1
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JUL 5 TH		ō	0			W
JUL 25	B+0	0	0	0	ij	0
JUL 26	B+1	0	0	0	į-ji	0
JUL 27	B+2	0	0	0	I!	Ō
JUL 28	B+3	0	0	0	0	0
JUL 29	B + 4	0	0	0	0	Ō
JUL 30	B+5	0	0	0	0	0
JUL 31	B+6	8	0	13	21	21
AUG 1	B+7	1 4	0	18	32	53
AUG 2	B+8	9	0	16	25	78
AUG 3	B+9	0	Ö	13	13	71
AUG 4	B+10	0	0	12	12	103
AUG 5	B+11	8	0	10	18	121
AUG 6	B+12	3	0	9	12	133
AUG 7	B+13	6	0	8	14	147
AUG 8	B+14	10	0	8	18	165
AUG 9	B+15	è	0	7	16	181
AUG 10	B+16	8	0	6	<b>i4</b>	195
AUG 11	B+17	7	0	6	13	208
AUG 12	B+18	6	0	6	12	220
AUG 13	B+19	6	0	5	11	231
AUG 14	B+20	5	0	5	10	241
AUG 15	B+21	5	0	5	10	251
AUG 16	B+22	4	0	4	8	259
AUG 17	B+23	4	0	4	8	267
AUG 18	B+24	3	0	4	7	274
AUG 19	B+25	2	0	4	6	280

SHIP: USS QUARTZ (IX-150)

CREW SIZE: 50

**GROUP: SERVICE** 

MISSION: QUARTZ, a concrete barge, was a member of the Repair and Service Unit during CROSSROADS. The duties of this unit included repairing, towing, and salvaging ships and supplying provisions. This unit also provided a Fleet Post Office, a motion picture exchange, as well as recreation, welfare and legal facilities.

SHOT DATA:	<b>TEST</b>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.235 REM

Date unit departed Bikini: August 22, 1946 (BAKER + 28)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS QUARTZ

TIME PLACE	REMARKS
010900 2591M	ANCHDRED IN KWAJALEIN FOE SHOT ABLE
041830 2591M	ENTERED BIKINI LAGOON
041925 23040	ANCHORED 2 MILES OFF BIKINI ISLAND
250835 2591M	ANCHORED IN BERTH 22 AT RONGELAF ATOLL DURING BAKER SH
	OT
310900 2 <b>591M</b>	ENTERED BIKINI <b>LAGOON</b>
310935 25010	ANCHORED IN BERTH #168
340815 25010	UNDERWAY TO SHIFT BERTHS
340945 25940	ANCHORED <b>EAST OF BERTH</b> ROGER
381310 25940	UNDERWAY TO NEW BERTH
381340 2402W	ANCHORED BETWEEN BERTHS 145 AND 146
530645 2591M	DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN 22 AUGUST 194
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YES DARFT: CALCULATED FILM BADGE DOSE (IN MREM)

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AUG 13	E+19	ā	0	3		183
AUG 14	B+20	5	<u> </u>	2	<u> </u>	191
AUG 15	B-21	면 1 작	9	3	Ĉ.	197
SU3 14	5+22	4	0			205
AUG 17	5 · 23	4	Ó			2.7 4.15
AUS 18	B+24	2	<u> </u>		r	219
AU3 17	8+25	3 - - - - - -	() •	<u>.</u>	5	224
AUG 10	3+26	-	0		4	219
	B÷27		9	•	4	133
AUS 11	8+28	÷	ō.	4		275

SHIP: USS RECLAIMER (ARS-42)

CREW SIZE: 73

GROUP: SALVAGE

MISSION: RECLAIMER arrived at Bikini on June 1, 1946 and began to prepare for the operation. As a member of the Salvage Unit, RECLAIMER's duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires. In addition, the Director of Ship Material (DSM) was embarked aboard the RECLAIMER from where he coordinated all salvage operations. The DSM, in RECLAIMER, made the first inspection of the target array, operating on numerous occasions between the Red and Blue lines.

SHOT DA	ATA: <u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each **source** contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 1.679 REM

Date unit departed Bikini: September 1, 1946 (BAKER + 38)

Ship contamination factor when departing Bikini: 4 (this value is for use with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS RECLAIMER

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341500 2195P UNDERWAY FROM ANCHORAGE
341623 2000E
             ANCHORED IN BERTH #219
             UNDERWAY PROCEEDING TO ANCHORAGE IN VICINITY OF USS FA
341829 2000E
             LL RIVER
             ANCHORED IN BERTH #357
341850 2194B
352400 2194B
             ANCHORED AS BEFORE
361425 21010 ALONGSIDE PENSACOLA
361518 21010 LEAVING PENSACOLA
370932 21010 ALONGSIDE PENSACOLA
370937 21010
             LEAVING
                       PENSACOLA
371335 21010 ALONGSIDE PENSACOLA
371410 21010 LEAVING PENSACOLA
381415 21010 ALONGSIDE PENSACOLA
381548 21010 LEAVING PENSACOLA
391509 21010 ALONGSIDE PENSACOLA
391610 21010 LEAVING PENSACOLA
400856 2102S ALONGSIDE MAYRANT2
400946 2102S LEAVING MAYRANT2
411025 21010 ALONGSIDE PENSACOLA
411126 21010 LEAVING PENSACOLA
441530 21010 ALONGSIDE PENSACOLA
441638 21010 LEAVING
                     PENSACOLA
470800 2201Y ALONGSIDE NEW YORK2
471500 2201Y LEAVING NEW YORK2
480810 2201P
             ALONGSIDE NEVADA2
481600 2201P LEAVING NEVADA2
500835 22000 ALDNGSIDE PENNSYLVANIA
501622 22000 LEAVING PENNSYLVANIA
510851 22000 ALONGSIDE PENNSYLVANIA
511745 22000 LEAVING
                     PENNSYLVANIA
520820 2201Y ALONGSIDE NEW YORK2
521238 2201Y LEAVING NEW YORK2
521345 22000 ALONGSIDE PENNSYLVANIA
521412 22000 LEAVING PENNSYLVANIA
531435 21028 ALONGSIDE MAYRANT2
531505 21028 LEAVING
                     MAYRANT2
571042 2591M ALONGSIDE CRITTENDEN
571335 2591M LEAVING CRITTENDEN
581247 2101M ALONGSIDE FALLON
58:415 2101M LEAVING FALLON
581505 2101M ALONGSIDE FALLON
581635 2101M LEAVING
                     FALLON
610723 2101M ALONGSIDE FALLON
611210 2101M LEAVING
                     FALLON
631150 2101M
             ALONGSIDE FALLON
631245 2101M
             LEAVING
                     FALLON
631500 2592M DEPARTED BIKINI LAGDON ON 1 SEPTEMBER 1946 - ENROUTE K
             WAJALEIN
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USS RECLAIMER CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON Water		SHIP CONTAMINATION		TOTAL
JUL 1	At0		0		15	15
JUL 2	A+1	6	0		6	21
JUL 3	A+2	0	8		8	29
JUL 4	A+3	0	0		0	29
JUL 5 TH	IRU 24	0	0			29
JUL 25	B+0	29	i	45	75	104
	B+1	9	127	42	178	282
JUL 27	B+2	11	51	60	122	4 () 4
JUL 28	B+3	18	57	<b>59</b>	134	538
	B+4	5	84	40	129	667
JUL 30	B+5	3	32	31	66	733
JUL 31	B+6	11	50	26	87	8 2 0
AUG 1	B+7	16	0	21	37	857
AUG 2	₿+8	1 4	81	18	113	970
AUG 3	B+9	1	0	16	17	987
AUG 4	B+10	0	0	14	14	1001
AUG 5	B+11	1	27	12	40	1041
AUG 6	B+12	3	18	11	32	1073
AUG 7	B+13	4	39	10	53	1126
AUG 8		10	23	9	42	1168
AUG 9	B+15	9	15	8	32	1 0
AUG 10	B+16	8	20	8	36	1236
AUG <b>11</b>	B+17	7	0	7	14	1250
GUG 12	B+18	6	0	7	13	1263
AUG 13	B+19	6	1	6	13	1276
AUG 14	B+20	5	0	6	1 1	1287
AUG 15	B+21	5	0	5	10	1297
AUG 16	B+22	4	8	5	17	1314
AUG 17	B+23	4	30	5	39	1353
AUG 18	B+24	3	0	4	7	1360
AUG <b>19</b>	B+25	3	62	4	69	1429
AUG 20	B+26	3	67	4	74	1503
AUG 21	B+27	3	6	4	13	1516
AUG 22	B+28	2	4	4	10	1526
AUG 23	B+29	2	0	4	6 3	1532
AUG 24	B+30	0	0	3	3	1535
AUG 25	B+31	0	0	3	3_	1'38
AUG 26	B+32	0	10	3	13	1551
AUG 27	B+33	0	39	<b>3</b> 3 3	42	1593
GUG 28	B+34	1	0		4	1597
AUG <b>29</b>	B+35	1	0	<b>3</b> 3	4	1601
AUG 30	B+36	1	58		62	1663
AUG 31	B+37	1	0	3	4	1667
SEP 1	B+38	0	10	2	12	1679

SHIP: USS ROBERT K. HUNTINGTON (DD-781)

CREW SIZE: 234

GROUP: SURFACE PATROL

MISSION: ROBERT K. HUNTINGTON arrived at Bikini on June 5, 1946, to prepare for CROSSROADS. As a member of the Surface Patrol Group, the ship was installed with special radiological equipment prior to its participation in the test series.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins I July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.474 REM

Date unit departed Bikini: August 10, 1946 (BAKER + 16)

Ship contamination factor when departing Bikini: 13 (this value is for use with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS R K HUNTINGTON

TIME PLACE	REM KS
050724 2591M	ENTERED BIKINI LAGOON FOR THE FIRST TIME AFTER SHOT AB
051050 2502R	LE ANCHORED IN <b>BERTH #147 AFTER</b> REFUELING <b>FROM USS</b> CHIKAS KIA
260935 2 <b>591M</b>	ENTERED BIKINI LAGOON AFTER SHOT BAKER
260954 2696N	ANCHORED IN BERTH #324
281455 2696N	UNDERWAY FOR THE O FEN SE A
281530 2591M	LEFT THE LAGOON
281727 <b>2591</b> M	INVESTIGATED RADIOACTIVE OIL SLICK FOR 36 MINUTES
281728 2591M	ENTERING RADIDACTIVE OIL SLICK
290001 <b>2591M</b>	CONDUCTED RADIOLOGICAL PATROL NORTH OF LAGOON DURING T
	HE NIGHT
290514 2591M	INVESTIGATED RADIOACTIVE OIL SLICK FOR 55 MINUTES
2912 <b>4</b> 9 <b>2</b> 591M	REENTERED THE LAGDON
291307 2296M	ANCORED IN R #337
301301 2296M	UNDERWAY
301358 2295M	MOORED ALONGSIDE ENOREE FOR REFUELING
301512 2295M	UNDERWAY TO ANCHORAGE
301558 25030	ANCHORED BERTH #116S
330719 25030	UNDERWAY FROM BERTH 1 lb
330819 2692M	ANCHORED IN BERTH #386
331333 2692M	U ERWAY
331408 2391V	AilChored
331544 2391V	UNDERWAY
331603 2591E	ANCHORED IN BERTH VICTOR
360747 2591E	UNDERWAY FOR OPEN SEA REENTERED LAGOON
361612 2591M	
361620 2292M	ANCHORED <b>IN</b> BERTH JIG UNDERWAY
380840 2292M 380928 25030	ANCHORED IN BERTH #116S
380928 25030 410750 25030	AND M
410/30 23030 410827 2591M	DEPARTED BIKINI <b>LAGOON ENROUTE FOE</b> PEARL HARBOR 10 AUG
41002/ 2371M	UST 1946

USS R K HUNTINGTON CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 TH	IRU 2 4	0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	0	Ō	0
JUL 27	B+2	1	0	5	6	6
JUL 28	B+3	36	0	70	106	112
JUL 29	B+4	34	0	47	81	193
JUL 30	B+5	7	0	38	45	238
JUL 31	B+6	14	0	30	44	282
AUG 1	B+7	15	0	24	39	321
AUG 2	B+8	4	0	21	25	346
AUG 3	B+9	0	0	18	18	364
AUG 4	B+10	0	0	16	16	380
AUG 5	B+11	0	0	14	14	394
AUG 6	B+12	0	0	13	13	407
AUG 7	B+13	6	0	11	17	424
AUG 8	B+14	10	0	10	20	444
AUG 9	B+15	9	0	10	19	463
AUG 10	B+16	2	0	9	11	474

SHIP: USS ROCKBRIDGE (APA-228)

CREW SIZE: 206

GROUP: TRANSPORT

MISSION: ROCKBRIDGE arrived at the Marshall Islands on June 1, 1946, to prepare for the operation. At CROSSROADS one of the primary duties of the several personnel transports such as ROCKBRIDGE was to house the crews of the target ships during and following the two detonations. The crews of the target ships that were subsequently sunk or rendered uninhabitable by Tests ABLE and BAKER continued living aboard the transport ships well after the detonations.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION	
		ABLE	1 July 46 (0900)	23 KT	Air Burst (+520 feet)	
		<b>BAKER</b>	25 July 46 (0835)	23 KT	Shallow Underwater (-90	feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.334 REM

Date unit departed Bikini: August 23, 1946 (BAKER + 29)

Ship contamination factor when departing Bikini: 5 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS ROCKBRIDGE

m		
010900		SE 20
011642	-0 C4	NTERED EIKINI L
1170		NCHORED BERTH
	297	NDERWAY FROM #31
 	660	NCHORED BERTH #2
400	09	AS BEFORE
051200		ING SUMMARY 5 PLUS 1
(I)	66	UMMARY E FLOS IS THE SUM TOTAL OF ALL FREE FIELD TAR
		OS∈S R∈Z∈ VED BY THIS SHIP FOR THE PERI
 €4	Ġ.Ć	LONGSIDE USS ARKANSAS FOR 76 HR
091708	A6666	ONCLUDING TIME ALONGSI≽E USS ARKA
5083	ري ت	BSERVED SLOT BAKER FROM A DISTANC A "MARMON")
9061	CII	NTERED LABOON AF
	2293M	NCHORED B
9100	293	NDERWAY FROM DO
910	5	DEPARTED LAGOON
្ ្ 5	36	EENTERED
0062	598	NCHORE
(4 (4	298	ERWAY FROM #2
<u> </u>	66	HORED BERTH #3
9095	∩ •0 •0	Y FROM #
8092	298	NCHORED BERT_ #2
0110	N 98	MPLETED RADIOLOGICAL INSPECTI
401101	64	VAP CONDENSAT & CO-LERS . 35R/DA
-	+0 +0	UNDERWAY FRom #2s
	402	
4154	هنك	DERWAY FROM # 31
4160	(1) (2) (3)	EPARATED BIKINI

USS ROCKBRIDGE CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	SHIPS	SHIP CONTAMINATION	DAILY 101AL	CUM TOTAL
JUL 1	A+0	0	0		Ú	0
JUL 2	A+1	1	0		1	i
JUL 3	A+2	0	)		0	i
JUL 4	A+3	0	0		Ō	1
JUL 5 T	HRU 24	0	8			9
JUL 25	B+0	Ć	Û	0	0	9
JUL 26	B+1	Ô	Ò	Û	Ô	9
JUL 27	B+2	Ô	Ó	0	0	9
JUL 28	B+5	0	0	0	0	9
JUL 29	$\mathbf{E} + 4$	0	0	()	0	9
JUL 30	B ÷ 5	4	0	10	14	23
JUL 31	8+6	7	0	20	27	50
AUG 1	B+7	10	0	19	29	7.9
AUG 2	B+8	12	0	17	29	108
AUG 3	B + 9	0	Ó	15	15	123
AUG 4	B+10	0	0	13	13	136
AUG 5	B+11	0	0	11	11	147
AUG 5	B+12	0	0	10	10	157
AUG 7	B+13	6	0	9	15	172
AUG 8	B+14	10	0	8	18	190
AUG 9	B+15	9	0	8	17	207
AUG 10	B+16	8	Û	7	15	222
AUG 11	B+17	7	Ō	7	1 4	236
AUG 12	B+18	4	0	Ł	12	248
AU5 13	B+19	6	0	6	12	260
AUG 14	B+20	5	0	5	10	270
AUG 15	B+21	5	0	5	10	280
AUG 16	5+22	4	0	5	9	289
AUG 17	B+23	4	0	4	8	2 <b>9</b> 7
AUG 18	P+24	3	0	4	7	304
AUG 19	B+25	3	0	4	7	311
AUG 20	B+26	3	0	4	7	318
AUG 21	B+27	3	0	4	7	325
AUG 22	8+28	2	0	3	5	330
AUE 23	B+29	1	0	3 3	4	334

SHIP: USS ROCKINGHAM (APA-229)

CREW SIZE: 297

GROUP: TRANSPORT

MISSION: ROCKINGHAM arrived at Bikini on June 1, 1946, to prepare for CROSSROADS. At CROSSROADS one of the primary duties of the several personnel transports such as ROCKINGHAM was to house the crews of target ships during and following the two detonations. The crews of target ships that were subsequently sunk or rendered uninhabitable by Tests ABLE and BAKER continued living aboard the transport ships well after the detonations.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
			July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins I July 1946. All days are July (e.g., I Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.241 REM

Date unit departed Bikini: August 24, 1946 (BAKER + 30)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS ROCKINGHAM

162 164 171	300615 300707 331534	121200 121201 121200 221200 250835	071200 091200	011731 021324 021407 042400 051200	0.00 H
2094A 2094A 2094A 2591M	2591M 2098A 2098A 2098A	M1655 V6666 V6666 V6666 V6666	A5666 4666	2196K 2196K 2000L 2000L 2000L 9999A 9999A	PLACE 2591M 2591M
NCHORED BERTH 353 NDERWOY 40 KWAJALEI EPAR4ED BIKINI LAGO ALEIN	MILES ENTERED BIKIN LAGOON ANCHORED BERTH 240 UNDERWAY TO NEW SERTH	SIDE USS LST-545 FOR SIDE USS LCT-1115 FOR S DE USS LSW 661 FOR VEN SHOT BAKER AT A I	DOSES RECEIVED BY THIS SHIP FOR THE PERIOD DUGH 24 JULY DE USS PENSACOLA FOR 3 DAYS (72 HOURS) NG 4 (ME ALONGSIDE USS PENSACOLA	ANCHARED SERTH 316 UNDERWAY TO NEW SERTH ANCHORED BERTH 218 ANCHORES AS SEFARE PASSING SUMMARY 5 "LUS 4.3 SUMMARY 5 PLUS 15 THE SUM TOTAL AF ALL GREE FIELD TARG	D SHOT ABL

"SS ROCKINGHAM CALCULATED FILM BADGE DOSE (IN MREM)

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DATE	1	JUL 2			UL 5 T	C	C	JUL 27	C4	C-1	19	10											-				-	AUG 16				C4	£.4	CA	CA	C4

SHIP: USS ROCKWALL (APA-230)

CREW SIZE: 288

GROUP: TRANSPORT

MISSION: ROCKWALL arrived at the Marshall Islands on June 1, 1946, to prepare for the operation. At CROSSROADS one of the primary duties of the several personnel transports such as ROCKWALL was to house the crews of the target ships during and following the detonations. The crews of the target ships that were subsequently sunk or rendered uninhabitable by Tests ABLE and BAKER continued living aboard the transport ships well after the detonations.

SHOT DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIHLD)	TYPE DETONATION	
	ABLE	I July 46 (0900)	23 KT	Air Burst (+520 feet)	
	BAKER	25 July 46 (0835)	23 KT	Shallow Underwater (-90	feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various **sources** which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.208 REM

Date unit departed Bikini: August 19, 1946 (BAKER + 25)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS ROCKWALL

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE AT A DISTANCE OF ABOUT 23 MILES
011450	2591M	EWTERED BIKINI LAGOON
011722	21960	ANCHORED BERTH #317
021340	21960	UNDERWAY
021428	2199F	ANCHORED BERTH #223
030000	2199F	ANCHORED AS BEFORE
040000	2199F	ANCHORED AS BEFORE
051200	9999A	PASSING SUMMARY 5 P LQ Q
051201	9999A	SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARG
		ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
		ULY THROUGH 24 JULY
121200	9999A	ALONGSIDE LAT-545 FOR 4 HRS 4 MIN
250835	2591M	OBSERVED SHOT BAKER AT A DISTANCE OF 16 MILES
300605	2591M	ENTERED BIKINI LAGOON
300643	2197A	ANCHORED BERTH #280
310000	2197A	ANCHORED AS BEFORE
320000	2197A	ANCHORED AS BEFORE
331410	2197A	DER WAY
331445		ANCHORED BERTH #352
340000		ANCHORED AS BEFORE
350000		ANCHORED AS BEFORE
501554	2591M	DEPARTED BIKINI LAGOON 19 AUGUST 1946 - ENROUTE TO PEARL HARBOR

USS ROCKWALL CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	1	0		1	1
JUL 3	A+2	Û	0		0	1
JUL 4	A+3	0	0		0	1
JUL 5	THRU 24	0	0			1
JUL 25	B+0	0	0	b	0	1
JUL 26	B+1	0	0	0	0	1
JUL 27	B+2	0	b	0	0	1
JUL 28	B+3	0	0	0	0	1
JUL 29	B+4	0	0	0	0	1
JUL 30	B+5	2	0	b	8	9
JUL 31	B+6	6	0	12	18	27
AUG 1	B+7	9	0	11	20	47
AUG 2	B+8	7	0	9	l b	63
AUG 3	B+9	0	0	8	8	71
AUG 4	B+10	0	b	7	7	78
AUG 5	B+11	0	0	b	b	84
AUG b	B+12	0	0	b	b	90
AUG 7	B+13	b	0	5	11	101
AUG 8	B+14	10	0	5	15	116
AUG 9	B+15	9	0	4	13	129
AUG 10	B+16	8	b	4	12	141
AUG 11	B+17	7	0	4	11	152
AUG 12	B+18	6	b	3	9	161
<b>AUG</b> 13	B+19	b	b	3	9	170
AUG 14	B+20	5	0	3	8	178
AUG 15	B+21	5	0	3	8	186
AUG 1b	B+22	4	0	3	7	193
<b>AUG</b> 17	B+23	4	0	2	b	199
<b>AUG</b> 18	B+24	3	0	2	5	204
<b>AUG</b> 19	B+25	2	0	2	4	208

SHIP: USS ROLETTE (AKA-99)

CREW SIZE: 151

GROUP: TRANSPORT

MISSION: As part of the transport unit ROLETTE arrived at the Marshall Islands on March 20, 1946, to prepare for CROSSROADS.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
			July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.241 REM

Date unit departed Bikini: August 26, 1946 (BAKER + 32)

Ship contamination factor when departing Bikini: 2 (this value is for use with the nomograph in Figure B-5).

## PATH REPORT FOR T H E USS ROLETTE

TIME PLACE	REMARKS
011730 2591M 011803 2196U	ENTERED BIKINI LAGOON ANCHORED BERTH 335
011823 21960	UNDERWAY TO SHIFT BERTHS
011836 21960	ANCHORED IN BERTH 335
021325 21960	UNDERWAY TO SHIFT BERTHS
021422 2105N	ANCHORED BERTH 18
041037 2105N	UNDERWAY TO SHIFT BERTHS
041101 24046	ANCHORED IN BERTH 56A
250835 2591M	OBSERVED BAKER AT BEARING OF 279.5 DEG. 24 MILES
280752 2 <b>591M</b>	ENTERED BIKINI LAGDON
280826 22 <b>9</b> 3K	ANCHORED
281550 2293K	UNDERWAY FOR RONGOLAP ATOLL
281623 2591M	EXIT BIKINI LAGOON PASS BUOY 1
310553 2591M	RENTERED BIKINI LAGDON
310650 24046	ANCHDRED IN BERTH 56A
331509 24046	UNDERWAY TO SHIFT BERTHS
331650 2094P	ANCHORED IN BERTH 379
381257 2094P	UNDERWAY TO SHIFT BERTHS
381413 2404G	ANCHORED IN BERTH 56A
520815 2404G	RAD SAF BOARD BOARDED TO CHECK SHIP
520940 24046	RAD SAF BOARD COMPLETED TESTS AND LEFT SHIP
571718 2591M	DEPARTED BIKINI LAGOON FOR ENIWETOK ATOLL 26 AUG 1946

USS ROLETTE CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TINE	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL	A+0	0	0		0	ij
JUL 2	A+1	2	0		2	
JUL 3	A+2	0	0		0	2
JUL 4	A+3	0	0		0	2 2 2 2
JUL 5 TH	HRU 24	0	0			2
JUL 25	B t ()	0	0	0	0	2
JUL 26	B+1	0	0	0	0	2
JUL 27	B+2	0	0	0	0	2 2
JUL 28	B+3	0	0	0	0	
JUL 29	B+4	0	0	0	0	2
JUL 30	B+5	0	0	0	0	2
<b>JUL</b> 31	B+6	11	0	10	21	23
AUG 1	B+7	15	0	11	26	49
AUG 2	B+8	10	0	9	19	68
AUG 3	B+9	0	0	8	8	76
AUG 4	B+10	0	0	7	7	83
AUG 5	B+11	0	0	6	6	89
AUG 6	B+12	0	0	6	b	95
AUG 7	B+13	4	0	5	9	104
AUG B	B+14	10	0	5	15	119
AUG 9	B+15	9	0	4	13	132
AUG 10	B+16	8	0	4	12	144
AUG 11	B+17	7	0	4	11	155
AUG 12	B+18	6	0	3	9	164
AUG 13	B+19	6	0	3	9	173
AUG 14	B+20	5	0	3	8	181
AUG 15	B+21	5	0	3	8	189
AUG 16	B+22	4	0	3	7	196
AUG 17	B+23	4	0	2	6	202
AUG 18	B+24	3	0	2	5	207
GUG 19	B+25	3	0	2	5	212
AUG 20	B+26	3	0	2	5 5	217 222
AUG 21 AUG 22	B+27 B+28	3	0 0	2 2	3 4	222 226
AUG 22	8+28 B+29	2 2	0	2	4	230
	B+27	2	0	2	4	234
AUG 24 AUG 25	B+31	2	0	2	4	238
AUG 25 AUG 26	B+32		0	2	3	241
AUG 26	DIOZ	1	U	∠	J	241

SHIP: USS SAIDOR (CVE-117)

CREW SIZE: 854

GROUP: NAVAL AIR

MISSION: **SAIDOR** was assigned to **the** Navy Air Group for Operation CROSSROADS. It was also designated as the photographic ship for the operation **and** a photographic laboratory was installed **onboard**. The torpedo bombers and fighter planes (**TBMs** and **F6Fs**) **onboard** were modified **and** outfitted with special photographic equipment. The helicopters **onboard** the ship were involved in radiological reconnaissance, photography and photographic utility flights.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various **sources** which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.068 REM

Date unit departed Bikini: August 4, 1946 (BAKER + 10)

Ship contamination factor when departing Bikini: 5 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS SAIDOR

TIME	PLACE	REMARKS
011727	2591M	ENTERING BIKINI LAGOON AFTER SHOT ABLE
011900		ANCHORED IN BERTH 285
021129	2597K	UNDERWAY TO SHIFT BERTHS
021216	2204D	ANCHORED IN BERTH #34
042400	2204D	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER FROM 15 MILES DISTANCE
261137	2591M	ENTERED BIKINI LAGOON AFTER SHOT BAKER
261155	2392X	ANCHORED !N BERTH "MIKE"
261155	2393X	UNDERWAY TO LEAVE HARBOR FOR MANEUVERS
261312	2591M	EXITED THE LAGOON
271441	2591M	FE-ENTERED THE LAGOON
271500	2393X	ANCHORED IN BERTH "MIKE"
271600	2393X	UNDERWAY TO EXIT THE LAGOON
271651	2591M	LEFT THE LAGOON
291350	2591M	RE-ENTERED BIKINI LAGOON HAVING CONDUCTED HELICOPTER O
		PERATIONS
291448	•	ANCHORED IN PERTH #348
291813		UNDERWAY
291825		EXITED THE LAGOON ENROUTE FOR KWAJALEIN
310700		FE-ENTERED BIKINI LAGOON
310845		ANCHORED IN BERTH #34
331543		UNDERWAY TO SHIFT BERTHS
331702		ANCHORED IN BERTH "CHARLIE"
351558		UNDERWAY TO DEPART THE LAGOON
351619	2591M	DEFARTED BIKINI LAGOON ENROUTE PEARL HARBOR 4 AUGUST 1 946

USS SAIDOR CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON Water	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	0	()		0	0
JUL 2	A+1	3	0		3	3
JUL 3	A + 2	1	0			4
JUL 4	A+J	Û	Z.,		ñ	4
JUL 5 T	HRU 24	0	0			4
JUL 25	B+0	0	0	0	()	4
JUL 26	B+1	Ç	0	0	0	4
JUL 27	B+2	0	0	0	0	4
JUL 28	B+3	ē	0	0	0	<u> </u>
JUL 29	B+4	0	0	0	0	4
JUL 30	B+5	Ö	0	0	0	यं
JUL 31	B+6	13	0	5	16	22
AUG 1	<b>B</b> + 7	18	Ú	5	23	45
AUG 2	B+8	11	0	5	16	61
AUG 3	B+9	0	0	4	4	<b>6</b> 5
AUG 4	B+10	Ů.	0	3	3	<b>6</b> 8

SHIP: USS SAINT CROIX (APA-231)

CREW SIZE: 306

GROUP: TRANSPORT

MISSION: SAINT CROIX arrived at Bikini on June 14, 1946, and served as a member of the Transport Unit during the operation. The primary function of this unit was to house the crews of the target ships during and following the two detonations. The crews of target ships that were subsequently sunk or rendered uninhabitable by Tests ABLE and BAKER continued living aboard the transport ships well after the de tonations.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION	
			l July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90	feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.072 REM

Date unit departed Bikini: August 2, 1946 (BAKER + 8)

Ship contamination factor when departing Bikini: 15 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS SAINT CROIX

TIME PLACE	REMARKS
010900 2591M	OBSERVED SHOT ABLE AT A BEARING OF 226 DEG.
011725 2591M	ENTERED BIKINI LAGOON
011747 2296M	ANCHORED IN BERTH 337
021519 2296M	UNDERWAY FROM BERTH 37
021613 2404V	ANCHORED IN BERTH 92
042400 2404V	ANCHORED AS BEFORE
051200 9999A	PASSING S MARY 5 0
051201 9999A	SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARG
	ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
	ULY TH GH 24 JULY
131200 9999A	ALONGSIDE LST-1115 FOR 4 HRS 33 MIN
250835 2591M	SHIP LOCATED APPROXIMATELY 450 MILES FROM SHOT BAKER
300546 2591M	ENTERED BIKINI LAGOON
300640 2098M	ANCHORED IN BERTH 260
331755 2098M	UNDERWAY <b>to exit</b> laggon
331834 25 <b>91</b> M	DEPARTED BIKINI LAGOON ENROUTE TO PEARL HARBOR 02 AUG
	1946

USS SAINT CROIX CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON Water	TARGET SHIPS	SHIP <b>CONTAMENATION</b>	DAILY TOTAL	CUM TOTAL
JUL 1	A+0	į:i	0	, , , , , , , , , , , , , , , , , , , ,	0	0
JUL 2	A+1	1	0		1	1
JUL 3	A+2	Q.	0		Û	1
JUL 4	A+3	0	U		Ö	1
JUL 5 1	THRU <b>24</b>	V	0			1
JUL 25	Bt()	0	0	0	0	1
JUL 26	B+1	0	0	0	0	1
JUL 27	B+2	0	0	0	0	1
JUL 28	B+3	0	0	0	0	1
JUL 29	B+4	0	0	0	0	1
JUL 30	B+5	4	0	8	12	13
JUL 31	B+6	7	0	13	20	33
AUG 1	B+7	10	0	11	21	54
AUG 2	B+8	9	0	9	18	72

SHIP: USS SAN MARCOS (LSD-25)

CREW SIZE: 631

**GROUP: SERVICE** 

MISSION: SAN MARCOS was part of the dispatch boat pool unit **and** arrived at the Marshall Islands in March 1946 to prepare for CROSSROADS. The ship provided small boats for dispatch and mail service throughout the operation.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION	
		1 <b>July 46 (0900)</b> 25 July 46 (0835)	<b>23</b> KT <b>23</b> KT	Air Burst (+520 feet) Shallow Underwater (-90 fee	t)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes **and** begins 1 July 1946. All **days are July (e.g., 1** Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge **dose** for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0,249 REM

Date unit departed Bikini: August 25, 1946 (BAKER + 32)

Ship contamination factor **when** departing Bikini: 2 (this **value** is for **use** with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS SAN MARCOS

331620 352400 561630	12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00010 00010 00010 00010	11143 1240 4240 5083 51141 51141	006010 
59 to 50 to	2403B 2403B 2403B	7 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	D 4 4 D   D 4 4   O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PLACE  2591M
ANCHORED IN BERT- "TARE" ANCHORED AS BEFORE DEPARTED BIKINI LAGOON ON 25 AUGUST 1946 - ENROUTE KWA JALEIN	Y #4 TO PORT Y #6 To STARBOARD HORED IN BERTH #94 HORED AS BEFORE ERWAY To S_IFT BERTH	UNDERWAY OUT OF BIKIN, LAGUUN EXITED BIKINI L%GOON RE-ENTERED BIKINI LAGOON ANCHORED 500 YARDS EAST OF BERTH "U" - "A" 119.5 DEG BUOY #2    4 DEG    BUOY #1    216.5 DEG	TERED BIKINI CHORED AS BEFORE CHORED AS BEFORE SERVED SHOT BAKER FROM A D ES TERED BIKINI LAGOON CHORED AS BEFORE CHORED AS BEFORE	REMARKS OBSERVED SHOT ABLE FROM A DISTANCE IN EXCESS OF 20 MIL

USS SAN MARCOS CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	curl <b>TOTAL</b>
JUL 1	At0	0	0		0	0
JUL 2	A+1	4	0		4	4
JUL 3	A+2	0	0		0	4
JUL 4	A+3	0	0		0	4
JUL 5 T	HRU 24	0	0			4
JUL 25	B+0	0	0	0	0	4
JUL 26	B+1	0	0	0	0	4
JUL 27	B+2	0	0	1	1	5
JUL 28	B+3	1	0	3	4	9
JUL 29	B+4	0	0	2	2	11
J 30	B+5	11	0	8	19	30
JUL 31	B+6	17	0	10	27	57
AUG 1	B+7	17	0	8	25	82
AUG 2	B+8	10	0	7	17	99
AUG 3	B+9	0	0	6	6	105
AUG 4	B+10	0	0	5	5	110
AUG 5	B+11	0	0	5	5	115
AUG 6	B+12	0	0	4	4	119
AUG 7	B+13	7	0	4	1 1	130
AUG 8	B+14	10	0	3	13	143
AUG 9	B+15	9	0	3	12	155
AUG 10	B+16	8	0	3	11	166
AUG 11	B+17	7	0	3	10	176
AUG 12	B+18	6	0	3	9	185
AUG 13	B+19	6	0	2	8	193
AUG 14	B+20	5	0	2	7	200
AUG 15	B+21	5	0	2	7	207
AUG 16	B+22	4	0	2	6	213
AUG 17	B+23	4	0	2	6	219
AUG 18	B+24	3	0	2	5	224
AUG 19	B+25	3	0	2	5	229
AUG 20	B+26	3	0	2	5	234
AUG 21	B+27	3	0	1	4	238
AUG 22	B+28	2	.0	1	3	241
AUG 23	B+29	2	0	1	3	244
AUG 24	B+30	2	0	1	3	247
AUG 25	B+31	1	0	1	2	249

SHIP: USS SEVERN (AO-(W)-61)

CREW SIZE: 145

GROUP: SERVICE

MISSION: SEVERN arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As part of the Repair and Service Unit, SEVERN provided provisions or logistical support (fuel and water) to the other support ships participating in the operation.

SHOT DATA:	<b>TEST</b>	DATE (TIME)	YIELD	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins I July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.137 REM

Date unit departed Bikini: August 24, 1946 (BAKER + 30)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS SEVERN

TIME PLACE	REMARKS
010900 2591M	ENROUTE FROM PEARL HARBOR TO BIKIN ATOLL AT TIME OF S HOT BAKER
070 <b>8</b> 03 2591M	ENTERED BIKINI LAGOON
070915 2697H	ANCHORED IN BERTH #287
071309 2697H	UNDERWAY TO SHIFT BERTHS
071440 2499H	ANCHORED IN BERTH #229
250835 2591M	OBSERVED SHOT BAKER AT A DISTANCE OF 15 MILES; BEARING
	265 DEGREES
300724 2591M	ENTERED BIKINI LAGOON
300743 2 <b>497V</b>	PASSED BUDY #6 - 300 YARDS TO PORT
3007 <b>59 2698</b> P	ANCHORED IN BERTH #270
310745 2698P	UNDERWAY
310833 2 <b>6</b> 95R	MOORED TO USS WILDCAT IN BERTH #370
311651 2695R	UNDERWAY
311720 2695W	ATA-187 ALONGSIDE (POSITION ESTIMATED)
311750 2591M	DEPARTED BIKINI LAGOON FOR PEARL HARBOR VIA KWAJALEIN
490830 2591M	RE-ENTERED BIKINI LAGOON FROM KWAJALEIN
551637 2591M	DEPARTED BIKINI LAGOON FOR KWAJALEIN ON 24 AUGUST 1946

USS SEVERN CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON Water	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	Ato	ld	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	Q		0	0
JUL 4	A+3	0	0		0	ij
JUL 5 T	HRU 24	0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	Ü
jul 28	B+3	0	0	0	0	V
JUL 29	B+4	0	0	0	0	Ü
JUL 30	8+5	2	0	6	8	a
JUL 31	B+6	3	0	13	16	24
AUG I	B+7	0	0	10	10	34
AUG 2	B+8	0	0	9	9	43
AUG a	B+9	0	0	8	8	5 1
AUG 4	B+10	0	0	7	7	58
AUG 5	B+11	0	0	6	6	64
AUG 6	B+12	0	0	5	5	69
AUG 7	B+13	0	0	5	5	74
AUG 8	B+14	0	0	4	4	78
AUG 9	B+15	0	0	4	4	82
AUG 10	B+16	0	0	4	4	86
AUG 11	B+17	0	0	3	3	89
AUG 12	B+18	0	0	3	3	92
AUG 13	B+19	0	0	3	3	75
AUG 14	B+20	0	0	3	3	98
AUG 15	B+21	0	0	3	3	101
AUG 16	B+22	0	0	2	2	103
AUG 17	B+23	0	0	2	2	105
<b>AUG</b> 16	B+24	2	0	3_	5	110
AUG 19	B+25	3	0	3	6	116
Α	B+26	3	0	2	5	121
AUG 21	B+27	3	0	2	5	126
AUG 22	B+28	2	0	2	4	130
AUG 23	B+29	2	0	2	4	134
AUG 24	B+30	1	0	2	3	137

SHIP: USS SHAKAMAXON (AN-88)

CREW SIZE: 38

GROUP: SALVAGE

MISSION: SHAKAMAXON arrived at Bikini prior to the first detonation on July I, 1946 to prepare for the operation. As a member of the Salvage Unit, SHAKAMAXON's main duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins I July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.643 REM

Date unit departed Bikini: August 27, 1946 (BAKER + 33)

Ship contamination factor when departing Bikini: 4 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS SHAKAMAXON

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341201 2394A
341215 2394A
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341220 2394A
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341235 1993M
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370800 2200Q
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371005 1900B LEAVING
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371520 2201Y
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371650 2201Y
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391020 2201H
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391034 2102X
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391130 2001J
391210 2001J
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391240 1901T
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431143 1902E
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431315 1902E
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581042 2591M
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USS SHAKAMAXON CALCULATEI! FILM BADGE DOSE (IN MREM)

DATE	TIME	<b>LAGOON</b> Water	TARGET SHIFS	SHIF CONTAMINATION	GAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	At0	1	0		1	1
JUL 2	A+1	1	0		1	2
1NF 2	A+2	0	0		0	2
JUL 4	A+3	0	0.		0	2
JUL 5 TH	iru <b>24</b>	0	0			2
JUL 25	B+0	23	10	38	7 1	73
JUL 26	B+1	0	0	24	24	97
JUL 27	B+2	0	0	10	10	107
JUL 28	B+3	0	0	Ь	6	113
JUL 29	B+4	0	0	4	4	117
JUL 30	B+5	1	45	7	53	170
JUL 31	B+6	1	0	12	13	183
AUG 1	B+7	0	0	12	12	195
AUG 2	B+B	0	0	11	11	206
AUG 3	B+9	3	16	15	34	240
AUG 4	B+10	0	0	13	13	253
AUG 5	B+11	3	0	12	15	268
AUG 6	B+12	4	27	11	42	310
AUG 7	B+13	6	0	10	16	326
AUG 8	B+14	<del>,</del>	3 <b>5</b>	9	53	379
AUG 9	B+15	9	0	6	17	396
AUG 10	B+16	8	0	8	lb	412
AUG 11	B+17	7	0	7	14	426
AUG 12	B+18	6	4	7	17	443
AUG 13	B+19	6	0	6	12	455
AUG 14	B+20	1	0	<u>6</u>	7	462
AUG 15	B+21	0	0	5	5	467
AUG 16	B+22	0	0	5	5	472
AUG 17	B+23	0	0	5	5	477
AUG 18	B+24	0	0	4	4	481
AUG 19	B+25	1	13	4	18	499
AUG 20	B+26	3	0	4	7	506
AUG 21	B+27	3	39	4	46	552 572
AUG 22	B+28	2	1 1	4	17	569 501
AUG 23	B+29	2	6	4	12	581
AUG 24	B+30	2	0	3	5	586 500
AUG 25	B+31	1	0	3	4	<b>59</b> 0
AUG 26	B+32	1	46	3	7	640
AUG 27	B+33	0	0	3	3	643

SHIP: USS SHANGRI-LA (CV-38)

CREW SIZE: 1935

GROUP: NAVAL AIR

MISSION: SHANGRI-LA arrived at Roi-Namur Island from Pearl Harbor on June 5, 1946. Roi-Namur is part of Kwajalein Atoll, located approximately 180 miles southeast of the Bikini test site. SHANGRI-LA% primary duties at CROSSROADS included training personnel and preparing equipment for use during the operation; conducting drone aircraft operations engaged in the collection of samples from the nuclear clouds and other air operations of embarked units.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.000 REM

Date unit departed Bikini: July 25, 1946 (BAKER DAY). SHANGRI-LA did not reenter the lagoon after Shot BAKER.

Ship contamination factor when departing Bikini: 0 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS SHANGRI LA

111   21   1-4	ш ; 0 ; 4 ; 1 ; 6.	CA   CA   CA   CA   CA   CA   CA   CA
10901	25928	OBSERVED ABLE EXPLOSION FROM A DISTANCE OF 47.8 MILES BEARING 310.
ហ •	0.4   0	T BIK NI ENTRANCE TO CHAN
10		PASSED BOUY #3 TO STARBOARD
129020	3/60Z	ANCHORED IN BERTH #285
031938	2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	UNDERWAY
50100	23 (N) (N) (N)	DEPASTED BIKINI LAGOOM
100 100 101 101	2592M	OBSERVED SHOT BAKER BEARING 310 DISTANCE 40 MILES
280001	三 (4) (5) (6) (7)	SHANGRI LA DID NOT ENTER BIKINI LAGOON AFTER BAKER SHO
		ŀ

USS SHANGRI LA CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON <b>Water</b>	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL !	A t 0				. <b></b> ان	0
JŪL 2	A+1	0	0		ij	0
JUL 3	A±2	Ô	Ô		0	0
JUL 4	A+3	ij	Ö		0	0
JUL 5 TH	IRU 24	0	0			0
JUL 25	B+0	0	0	0	0	0

SHIP: USS SIOUX (ATF-75)

CREW SIZE: 66

GROUP: SERVICE

MISSION: SIOUX arrived at Bikini prior to the first detonation on July I, 1946 to prepare for the operation. As part of the Repair and Service Unit, SIOX performed such duties as salvage, towing, and emergency repair work.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
			July 46 (0900) 25 July 46 <b>(0835)</b>		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-l, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film **badge dose** for this unit from the various sources which it encountered while at Bikini lagoon. A daily total **and** cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.301 REM

Date unit departed Bikini: August 25, 1946 (BAKER t 31)

Ship contamination factor when departing Bikini: 5 (this value is for use with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS SIOUX

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TIME PLACE REMARKS
01090.0 2591M OBSERVED SHOT ABLE FROM A DISTANCE OF 9 MILES - BEARIN
              6 331 DEG
020530 2591M ENTERED BIKINI LAGOON WITH ARD-29 IN TOW
020853 2698T MODRED ARD-29 TO BERTH 270A
020945 2698T UNDE AY
021000 2591M DEPARTED BIKINI LAGOON FOR KWAJALEIN
041030 2591M ENTERED BIKINI LAGOON
041345 25040 MOORED YF-990 TO LST-351 I!? BERTH #63
041416 25040 UNDERWAY
041445 2401Y ANCHORED - "E" 353 DEG "D" 2H G "C" A7 DEG
042400 2401Y ANCHORED AS BEFORE
051200 9999A PASSING SUMMARY 5 PLUS 0
051201 9999A SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARG
              ET SHIP DOSES RECEIVED BY THIS SHIF FOR THE PERIOD 5 J
              ULY THROUGH 24 JULY
111200 9999A
             ALONGSIDE USS PENNSYLVANIA FOR 46 MINUTES
121200 9999A ALONGSIDE USS ARKANSAS FOR 5 HOURS
131200 9999A ALONGSIDE USS BARROW FOR 30 MINUTES
131201 9999A ALONGSIDE USS SARATOGA FOR 44 MINUTES
141200 9999A ALONGSIDE USS SARATOGA FOR 15 MINUTES
141201 9999A ALONGSIDE USS ARKANSAS FOE 1 HR 30 MEN
141202 9999A ALONGSIDE USS SALT LAKE CITY FOR 30 MINUTES
151200 9999A ALONGSIDE USS CRITTENDEN FOR 20 MINUTES
161200 9999A ALONGSIDE USS SALT LAKE CITY FOR 55 MINUTES
161201 9999A ALONGSIDE USS PENSACOLA FOR 6 HRS 20 MIN
171200 9999A ALONGSIDE US3 NEVADA FOR 4 HRS 48 MIN
171201 9999A ALONGSIDE USS ARDC-13 FOR 50 MINUTES
250835 2591M OBSERVED SHOT BAKER
310715 2591M ENTERED BIKINI LAGOON WITH ARD-29 IN TOW
310955 2505X NEAR BERTH #44
311055 2505X ANCHORED ARD-29 IN BERTH #44
311117 2505X UNDERWAY FROM ARD-29
311134 2501V ANCHORED IN BERTH #168
320758 2501V UNDER Y
320820 2097C MOORED TO YO-132 ALONGSIDE USS BAYFIELD IN BERTH #279
320837 2097C UNDERWAY WITH YD-132 IN TOW
320930 2500W MOORED Y0-132 TO USS AJAX IN BERTH #207
320945 2500W UNDERWAY
321050 27940 ANCHORED IN VICINITY OF USS FALMYRA
321530 2794C UNDE AY
321650 2002E NEAR USS WILSON TO WASH HER DOWN
321730 2002E UNDERWAY FROM USS WILSON
              ANCHORED - "A" 146 DEG "B" 19 DEG "C" 0 DEG
321832 2694Y
330700 2694Y UNDERWAY FROM ANCHORAGE
330732 2401S ANCHORED NEAR USS WHARTON IN BERTH #145
331550 24018 UNDERWAY FROM ANCHORAGE
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  HESPERIA
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                    HESPERIA
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MOORED TO YF-731 ALONGSIDE US UNDERWAY WITH YF-733 IN TOW MOORED YF-733 TC USS HESPERIA UNDERWAY FROM YF-733 ANCHORED - "A" 169 DEG "B" 1 UNDERWAY FROM ANCHORAGE ANCHORAGE
                                                                   UNDERWAY WITH ARD-29 IN TOW
ANCHORED ARD-29
UNDERWAY FROM AFD-29
ANCHORED - "A" 144 DEG "B"
70 DEG
ANCHORED AS BEFCRE
EXITED BIKINI LAGOON FOR KWA
I DEPARTED BIKINI LAGOON FOR KWA
I DEPARTED BIKINI LAGOON
I DEPARTED BIKINI LAGOON
I CAVING HUGHES
I EXITED BIKINI LAGOON
I RE-ENTERED BIKINI LAGOON
I RE-ENTERED BIKINI LAGOON
I RE-ENTERED BIKINI LAGOON
I DEPARTED BIKINI LAGOON FOR KO
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 352400
391701
4111200
461325
5111114
5307441
560722
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USS SIOUX CALCULATED FILM BADGE DOSE (IN MREM

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIF CONTAMENATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL !	At0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 T	HRU 24	0	0			0
JUL 25	B t O	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	0	0	0	0	0
JUL 29	B+4	0	0	0	0	!j
JUL 30	B+5	0	0	0	0	0
JUL 31	B+6	8	0	16	24	24
AUG 1	B+7	7	0	21	28	52
AUG 2	B+8	10	0	18	28	80
AUG 3	B+9	5	0	16	21	101
AUG 4	B+10	0	0	14	14	115
AUG 5	B+11	0	Û	12	12	127
AUG 6	B+12	0	0	11	11	138
AUG 7	B+13	5	0	10	15	153
AUG B	B+14	6	0	9	15	168
AUG 9	B+15	0	0	8	8	176
<b>GUG</b> 10	B+16	3	0	8	11	187
AUG 11	B+17	7	0	7	14	201
AUG 12	B+1B	4	0	7	11	212
AUG 13	B+19	0	0	6	6	218
AUG 14	B+20	0	0	6	6	224
<b>AUG</b> 15	B+21	2	0	5	7	231
AUG 16	B+22	4	0	5	9	240
AUG 17	B+23	4	0	5	9	249
AUG 18	B+24	3	0	4	7	256
AUG 19	9+25 8+24	3 3	0	4	7	263
AUG 20 AUG 21	B+26	ა ვ	9	4	16	279
AUG 21 AUG 22	B+27 B+28	ა 0	0 0	4	7	286 200
AUG 23	B+28 B+29	0	0	4	4	290
AUG 23	B+30	1	0	4 3	4	294 298
AUG 24 AUG 25	B+31	0	0	3 3	4	298 301
AUG 23	DEOI	V	v	J	3	301

SHIP: USS SPHINX (ARL-24)

CREW SIZE: 155

GROUP: SERVICE

MISSION: SPHINX was assigned to the Repair and Service Unit. The duties of this unit included repairing, towing, and salvaging ships and supplying provisions. This unit also provided a Fleet Post Office, a motion picutre exchange, as well as recreation, welfare, and legal facilities.

SHOT	DATA:	<b>TEST</b>	DATE (TIME)	YIELD	TYPE DETONATION
			I July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various **sources** which it encountered while at Bikini **lagoon**. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each **source** contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.290 REM

Date unit departed Bikini: August 19, 1946 (BAKER + 25)

Ship contamination factor when departing Bikini: 5 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS SPHINX

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE FROM 18.3 MILES TO THE EAST NORTHEA ST
011907	2591M	ENTERED BIKINI LAGOON
011935	2595T	ANCHORED IN BERTH #369N
021300	2595T	UNDERWAY FROM BERTH
021357	26036	ANCHORED IN BERTH #117
042400	2603G	ANCHORED AS DEFORE
250835	2591M	OBSERVED SHOT BAKER FROM 20 MILES TO THE EAST
301545	2591M	ENTERED BIKINI LAGOON
301711	26036	ANCHORED IN BERTH #117
331522	2603G	UNDERWAY
331641	23910	ANCHORED ON A LINE BETWEEN BERTHS "S" AND "V" - "A" 80
		DEG "B" 34 DEG
331746	23910	UNDERWAY TO ADJUST ANCHORAGE
33 1802	2593P	ANCHORED ON A LINE BETWEEN BERTHS "V" AND II S " - " A " 1
		01 DEG "B" 32 DEG
351043	2593P	UNDERWAY TO ADJUST ANCHORAGE
351110	2291M	ANCHORED DN A LINE BETWEEN BERTHS "V" AND "S" - "A" 63
		.5 DEG "B" 25 DEG
352400	2291M	ANCHORED AS BEFORE
381012	2291M	UNDERWAY TO SHIFT BERTHS
381135	2603G	ANCHORED IN BERTH 117
431336	2603G	UNDERWAY
431419	2603F	ANCHORED IN BERTH #117
501031	2603F	UNDERWAY TO LEAVE BIKINI LAGOON
501120	2591M	DEPARTED BIKINI LAGOON ON 19 AUGUST 1946 - ENROUTE KWA JGLEIN

USS SPHINX CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	At 0	0	0		0	0
JUL 2	A+1	Ō	0		0	Ó
		0	0		0	0
JUL 4	A+3	Ō	0		0	0
JUL 5 T	HRU 24	0	0			0
JUL 25	Bto	0	0	0	0	0
JUL 26	B + 1	0	0	!j	0	0
JUL 27	B+2	0	0	0	0	0
	B+3	0	0	0	0	0
JUL 29	B+4	0	0	0	0	0
JUL 30	B+5	4	0	6	10	10
JUL 31	B+6	12	0	21	33	43
	B+7	14	0	18	32	75
	B+8	9	0	16	25	100
GUG 3	B+9	b	0	13	13	113
AUG 4	Bt10	0	0	12	12	125
AUG 5	B+11	!j	0	10	10	135
AUG 6	B+12	0	0	9	9	144
AUG 7	B+13	6	0	a	1 4	158
AUG 8		10	0	8	18	176
	B+15	9	0	7	16	192
AUG 10	B+16	8	0	6	1 4	206
GUG 11	B+17	7	0	6	13	219
AUG 12	B+18	6	0	6	12	231
AUG 13	B+19	6	0	5	1 1	242
GUG 14	8+20	5	0	5	10	252
AUG 15	B+21	5	0	5	10	262
GUG 15	8+22	4	0	4	8	270
AUG 17	B+23	3	0	4	8	278
AUG 18	B+24	3	0	4	7	285
AUG 19	B+25	1	0	4	5	290

SHIP: USS SUNCOCK (AN-80)

CREW SIZE: 43

GROUP: SALVAGE

MISSION: SUNCOCK arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As a member of the Salvage Unit, SUNCOCK's main duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
			1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.664 REM

Date unit departed Bikini: August 30, 1946 (BAKER + 36)

Ship contamination factor when departing Bikini: 4 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS SUNCOCK

REMARKS	OBSERVED SHOT ABLE ENTER BIKINI LAGOON ANCHOR IN BERTH FOX UNDERWAY FROM BERTH FOX LAY OFF PORT QUARTER OF ATP-192 UNDERWAY FROM ATA-192 UNDERWAY FROM ATA-192 LAY OFF STARBOARD QUARTER OF USS GASCONADE ALONGS D* GASCONADE LEAVING GASCONADE LEAVING BD: T* LAY OFF PORT QUARTER USS CORTIAND UNDERWAY FOR NEW ANCHORAGE *NCHOR IN BERTH "PETER" FASSING SUMMARY O	MMARY IS A FICTITIOUS EIVED BY SUNCOCK WHILE DI ABLE DERWAY FROM BERTH FETE VE TO STARBOARD SIDE U CCED TOWARD USS BARRO VE TO STARBOARD SIDE U CCED TO USS CORTLAND VE TO OFF STARBOARD QU CCED TO USS WAINWRIGH	### ##################################	UNDERWAY FROM MOORING - PROCEEDING TO USS PALMYRA ANCHORED IN B*RTH "PETER" ANCHORED AS BEFORE PASSING SUMMARY 5 PLUS 0 SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARG
PLACE	25591M 25591M 25591M 25591M 18000 18000 1900C 1900C 1800W	2594J 2594J 1900B 1900B 1901T 1901T 1800W 1800W	0.000077700000000000000000000000000000	22201F 25594N 25594N 99999
7 1 1 1 1	010900 011329 011328 011543 011612 011612 011715 011715 011810 011810 011914	233 000 000 000 000 101 101 101 100 100 1	00211120 00211120 00211120 00211120 0021122111130 0041010410 0041010410 0041010410	041410 041620 042400 051200 051201

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ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
              ULY THROUGH 24 JULY
131730 9999A ALONGSIDE ARDC-13 FROM 1730 TO 1907
200945 9999A MGGREI! TO STERN BUDY OF USS SARATOGA FROM 0945 TO 1430
231130 9999A MOORED TG USS NEVADA FROM 1 130 TO 1658
231815 9999A MOORED TO BUOY NEAR USS ARKANSAS FROM 1815 TO 2310
250835 2591M OBSERVED SHOT BAKER
251112 2591M PROBABLE TIME OF ENTERING BIKINI LAGGEN
251143 27930 ANCHOR IN BERTH "ROGER" OFF ENYU ISLAND
251151 2793N UNDERWAY FROM BERTH
251241 1800V ALONGS IDE CORTLAND
251306 1800V LEAVING
                       CORTLAND
251310 1800V STOPPED TO THE NORTH OF USS CORTLAND
251402 1800V PROCEED TO USS CARTERET
251412 18000 ALONGS I DE CARTERET 1
251413 18000 UNSAFE FOR BOARDING - PREFARING TO PROCEED NGF'TH
251417 18000 LEAVING
                        CARTERET1
251423 18000 STOPPED NORTH GF USS CARTERET
251436 18000 PROCEED TO GO ALONGSIDE USS CARTERET
251450 18000 ALONGSIDE CARTERET1
251453 18000 LEAVING
                      CARTERET1
251453 18000 STOPPED NORTH OF USS CARTERET
251545 18000 UNDERWAY TO PORTSIDE OF USS CARTERET
251554 18000 ALONGSIDE CARTERET1
251559 18000 LEAVING
                       CARTERET1
251600 18000 STOPPED NORTH OF USS CARTERET
251612 18000 UNDERWAY FOR BERTH "ROGER"
251630 18000 RADIOLOGICAL INSPECTION OF ENGINE ROOM AND WATER INTAK
              E - CONDITION NORMAL
251702 2793C ANCHORED IN BERTH "ROGER"
281547 2793C UNDERWAY FROM BERTH "ROGER"
281629 1993T ANCHORED 1175 YARDS SOUTH OF BERTH #379
301437 1993T UNDERWAY FROM BERTH
301525 2793C ANCHORED IN BERTH "ROGER"
310925 27930 UNDERWAY FROM BERTH "ROGER"
311013 2405U ANCHORED 300 YARDS ASTERN OF USS OTTAWA
311042 2405U UNDERWAY TO GO ALONGSIDE OTTAWA
311050 2405P MODRED PORT SIDE OF USS OTTAWA
311235 2405P UNDERWAY TO IONCHEBI ISLAND
311340 2797N LYING TO - WEST OF IGNOREDI ISLAND -- "C" 350 DEG "B"
              117 DEG
311530 2797N UNDERWAY FOR USS WILDCAT
311557 25958 MOORED PGRT SIDE OF USS WILDCAT
311758 2595S UNDERWAY FROM USS WILL CAT
             SECURED MAIN ENGINE - BERTH "ROGER"
311810 27930
331625 2793C UNDERWAY FROM BERTH "ROGER"
331704 1993T ANCHORED 1175 YARDS SGUTH OF BERTH #379 - "C"75 DEG "
              B" 60 DEG "A" 89 DEG
340759 1993T
              UNDERWAY FUR USS FULTON
340825 2599N LYING TO OFF PORT SIDE OF USS FULTON
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340832 2599N UNDERWAY FROM USS FULTON
340910 2202K SOUTH OF USS NEVADA
341127 2200B MODRED TO BUOY - "E" 19 DEG "C" 79 DEG
341227 2200B UNDERWAY TO RECOVER INSTRUMENT
341557 2201Y LAY TO ASTERN - USS NEW YORK
341629 2201Y UNDERWAY TO ANCHORAGE
             ANCHORED 1175 YARDS SOUTH OF BERTH #379 - "C" 41 DEG
341700 1993T
             "A" 90 DEG
352400 1993T ANCHORED AS BEFORE
380830 1993T UNDERWAY
380925 2200B ALONGSIDE GASCONADE2
381112 2200B LEAVING
                     GASCONADE2
390850 2105J ALONGSIDE LST-545
390900 2105J
            LEAVING LST-545
390917 2204U ALONGSIDE LST-661
390925 2204U LEAVING
                      LST-661
390945 22028 ALONGSIDE LST-52
390953 2200B LEAVING LST-52
391004 22011 ALONGSIDE LST-133
391012 22011 LEAVING LST-133
391032 2001L ALONGSIDE CRITTENDEN
391055 2001L LEAVING
                     CRITTENDEN
450930 2000T ALONGSIDE PARCHE2
451110 2000T LEAVING PARCHEZ
460954 2001L
             ALDNGSIDE CRITTENDEN
461700 2001L LEAVING CRITTENDEN
470845 2001J ALONGSIDE DAWSON
471153 2001J LEAVING DAWSON
471225 2200B ALONGSIDE GASCONADE2
471320 2200B LEAVING
                     GASCONADE2
471330 22001 ALONGSIDE BRISCOE2
471540 2200I
             LEAVING
                      BRISCOE2
551121 1901T
             ALONGSIDE BARROW
551255 1901T
             LEAVING BARROW
551310 2101B
             ALONGSIDE BRULE
551602 2101B
             LEAVING BRULE
560916 2101B
             ALONGSIDE BRULE
551244 2101B
             LEAVING
                      BRULE
570925 22008
             ALONGSIDE CATRON
571415 2200S
             LEAVING CATRON
590847 2104E
             ALDNGSIDE LST-220
591124 2104E
             LEAVING LST-220
591338 1900B
             ALONGSIDE BUTTE
591605 1900B
             LEAVING
                      BUTTE
591657 2105J
             ALONGSIDE LST-545
591845 2105J
             LEAVING
                     LST-545
610711 2002C
             ALONGSIDE RHIND2
510915 20020
             LEAVING RHIND2
611114 2591M
             DEPARTED BIKINI LAGOON WITH USS RHIND IN TOW ON 30 AUG
             UST 1946 -- ENROUTE KWAJALEIN
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USS SUHCOCK CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON Water	TARGET SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	At0	2	0		2	2
JUL 2	A+1	2	0		2	4
JUL 3	A+2	0	0		0	4
JUL 4	A+3	0	0		0	4
JUL 5 TH	HRU 24	0	0			4
JUL 25	BtO	17	35	27	79	83
JUL 26	B+1	0	Ō	13	13	96
JUL 27	B+2	0	0	5	5	101
JUL 28	B+3	0	0	3	3	104
JUL 29	B+4	0	0	2	2	106
JUL 30	B+5	0	0	2	2	108
<b>JUL</b> 31	B+6	2	0	9	11	119
AUG 1	B+7	0	0	12	12	131
AUG 2	B+8	0	0	11	11	142
AUG 3	B+9	4	0	15	19	161
	B t 10	0	0	13	13	174
AUG 5	B+11	0	0	12	12	186
	B+12	0	0	11	11	197
AUG 7	B+13	5	55	10	7 ()	267
AUG B	B+14	10	11	9		297
AUG 9	8+15	9	0	8	17	314
AUG 10	B+16	8	0	6	16	0
AUG 11	B+17	7	0	7	14	344
AUG 12	9+18	6	0	7	13	
AUG 13	B+19	6	0	6	12	369
AUG 14	B+20	5	1	6	12	381
AUG 15	B+21	5	43	5	53	434
AUG 16	B+22	4	62	5	71	505
AUG 17	B+23	4	0	5	9	514
AUG 18	B+24	3	0	4	7	521
<b>AUG</b> 19	B+25	3	0	4	7	528
AUG	B+26	3	0	4	7	535
<b>AUG</b> 21	B+27	3	0	4	7	542
AUG 22	B+28	2	0	4	6	548
AUG 23	B+29	2	0	4	6	554
AUG 24	B+30	2	25	3	30	584
<b>AUG</b> 25	B+31	2	26	<u>3</u> <u>7</u>	3 1	615
AUG 26	B+32	1	18	3	22	637
AUG 27	B+33	1	0	3 7 3	4	641
AUG 28	B+34	1	5	ر ن	9	650
AUG 29	B+35	1	0	3	4	654
<b>AUG</b> 30	B+36	0	7	3	10	664

SHIP: USS SYLVANIA (AKA-44)

CREW SIZE: 208

GROUP: SURVEY

MISSION: SYLVANIA arrived at Bikini Atoll on April 19, 1946, and spent the time prior to the CROSSROADS detonations preparing for the operation. On June 28, SYLVANIA anchored at Rongelap Atoll, located some 65 miles east of Bikini. Two days later the ship departed Rongelap, conducting an oceanographic survey along the way.

SHOT D	DATA: <u>TEST</u>	D A T E	( T I MYIELD)	TYPE DETONATI	ON
	ABLE BAKE	1 July 46 (090 R 25 July 46 (08)	00) 23 KT 35) 23 KT	Air Burst (+520 feet Shallow Underwater	

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.238 REM

Date unit departed Bikini: August 25, 1946 (BAKER + 31)

Ship contamination factor when departing Bikini: 2 (this value is for use with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS SYLVANIA

TIME	PLACE	REMA S
		SYLVANIA OBSERVED SHOT ABLE FROM DISTANCE OF 22 MILES
250835	2591M	OBSERVED SHOT BAKER FROM G DISTANCE OF 17 MILES
310915	2591M	ENTERED BIKINI LGGOON
311001	2304E	ANCHORED BERTH 40
320000	2304E	GNCHORED AS BEFORE
331613	2304E	UNDERWAY TO SHIFT BERTHS
331708	2392D	ANCHORED BERTH "MIKE"
340000	23 <b>92D</b>	ANCHORED AS BEFORE
350000	2392D	ANCHORED AS BEFORE
561602	2591M	DEPARTED BIKINI LAGOON 25 AUGUST 1946 ENROUTE PEARL HA
		RBOR VIA KWAJALEIN

USS SYLVANIA CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TIME	LAGOON TER	TARGET SHIPS	SHIP CONTAMJNATION	DAILY <b>TOTAL</b>	CUM Total
JUL 1	At ()	0	0	- * * * * * * * * * * * * * * * * * * *	0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	Q	Ü		0	0
JUL 5 T	HRU 24	0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	0	0	0	0	0
JUL 29	B+4	0	0	0	0	0
JUL 30	B+5	0	0	0	0	0
JUL 31	B+6	10	0	8	18	18
AUG 1	B+7	17	0	11	28	46
AUG 2	8+8	1 1	0	9	20	66
AUG 3	B+9	0	0	8	8	7.4
AUG 4	B+10	0	0	7	7	81
AUG 5	B+11	0	0	6	6	87
AUG 6	B+12	0	0	4	6	93
AUG 7	B+13	7	0	5	12	105
AUG 8	B+14	10	0	5	15	120
AUG 9	B+15	9	0	4	13	133
AUG 10	B+16	8	0	4	12	145
AUG 11	B+17	7	0	4	1,1	156
AUG 12	B+18	6	0	3	9	165
AUG 13	B+19	6	0	3	9	174
AUG 14	B+20	5	0	3	8	182
AUG 15	B+21	5	0	3	8	190
AUG 16	B+22	4	Ü	3	7	197
AUG 17	B+23	4	0	2	6	203
AUG 18	B+24	3	0	2	5	208
AUG 19	B+25	3	0	2	5	213
AUG 20	B+26	3	0	2	5	218
AUG 21	B+27	3	0	2	5	223
AUG 22	B+28	2	0	2	4	227
AUG 23	B+29	2	0	2	4	231
AUG 24	B+30	2	0	2	4	235
AUG 25	B+31	1	0	2	3	238

SHIP: USS TELAMON (ARB-8)

CREW SIZE: 158

GROUP: SERVICE

MISSION: TELAMON was a member of the repair unit and arrived at Bikini in the spring of 1946 to prepare for CROSSROADS.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
			July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins I July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film **badge dose** for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.267 REM

Date unit departed Bikini: August 15, 1946 (BAKER + 21)

Ship contamination factor when departing Bikini: 7 (this value is for use with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS TELAMON

TIME	PLACE	REMARKS
010900	2591M	OBSERVED SHOT ABLE WHILE AT KWAJALEIN
021430	2591M	ENTERING BIKINI LAGOON
021501	2502L	ANCHORED IN BERTH 1465
042400	2502L	ANCHORED AS BEFORE
250835	2591M	OBSERVED SHOT BAKER FROM 16 MILES TO THE NORTHEAST
301530	2591M	ENTERING BIKINI LAGOON
301606	2502L	ANCHORED IN BERTH 1465
331545	2502L	UNDERWAY TO NEW ANCHORAGE
331618	2593M	ANCHORED BETWEEN BERTHS "SUGAR" AND "UNCLE"
380845	2593M	UNDERWAY TO NEW ANCHORAGE
380912	2502L	ANCHORED IN BERTH 146S
451015	2502L	UNDERWAY TO NEW ANCHORAGE
451047	2504R	ANCHORED IN BERTH 62
461545	2504R	UNDERWAY TO DEPART LAGOON
461620	2591M	DEPARTED BIKINI LAGOON 15 AUGUST 1946 - ENROUTE PEARL
		HARBOR

USS TELEMON CELCULETED FILM BADGE DOSE (IN MREM)

DGTE	TIME	LGGOON E F:	TARGET SHIPS	SHIP CONTAMENATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	A+0	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	0
JUL 5 TH	IRU 24	0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	0	ı ş	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	0	0	Û	0	0
JUL 29	B+4	0	0	0	0	0
JUL 30	B+5	5	0	7	12	12
JUL 31	B+6	1 4	0	22	36	48
GUG 1	B+7	15	0	la	33	al
GUG 2	B+8	10	0	16	26	107
GUG 3	B+9	0	0	13	13	120
GUG 4	B+10	0	0	12	12	132
GUG 5	B+11	0	0	10	10	142
GUG 6	B+12	0	0	9	9	151
GUG 7	B+13	6	0	a	14	165
GUG a	B+14	10	0	a	la	183
GUG 9	B+15	9	0	7	lb	199
GUG 10	B+16	8	0	6	14	213
GUG 11	B+17	7	0	6	13	226
AUG 12	B+18	6	0	6	1 2	238
GUG 13	B+19	6	0	5	11	249
GUG 14	B+20	5	0	5	10	259
AUG 15	B+21	3	0	5	a	267

SHIP: USS TOMBIGBEE (AOG-11)

CREW SIZE: 86

GROUP: SERVICE

MISSION: TOMBIGBEE arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As part of the Repair and Service Unit, TOMBIGBEE provided provisions or logistical support (fuel and water) to the other support ships participating in the operation.

SHOT	DATA:	<b>TEST</b>	DATE (TIME)	YIELD	TYPE DETONATION	
			1 July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 f	feet)

PATH REPORT: This report contains the geographic locations of CTJF-I support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.273 REM

Date unit departed Bikini: August 21, 1946 (BAKER + 27)

Ship contamination factor when departing Bikini: 5 (this value is for use with the nomograph in Figure B-5)

# PATH REPORT FOR THE USS TOMBIGBEE

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ALONGSIDE PRINZ EUGEN FOR 32 MINUTES
ALONGSIDE USS LST-133 FOR 3 HRS 30 MIN
ALONGSIDE USS LST-52 FOR 2 HRS 15 MIN
ALONGSIDE USS SALT LAKE CITY FOR 1 HR 25 MIN
ALONGSIDE USS FENSACOLA FOR 2 HRS 8 MIN
ALONGSIDE JSS HUGHES FOR 1 HR
ALONGSIDE PRINZ EUGEN FOR 2 HRS 40 MIN
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USE TOMBIGBEE CALCULATED FILM BADGE DOSE !IN MREM)

DATE	TIME	LAGOON Water	TARGET SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM <b>TOTAL</b>
JUL 1	A+0	0	0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0	0
JUL 2	A+1	Q	0		0	0
JUL 3	A+2	0	2		2	2
JUL 4	A+3	0	0		0	2 2
JUL 5 T	HRU 24	0	0			2
JUL 25	B+0	0	0	0	0	2
<b>JUL</b> 26	B+1	0	0	0	0	2
JUL 27	B+2	0	0	0	0	2
JUL 28	B+3	0	0	0	0	2
JUL 29	B+4	0	0	0	0	2
JUL 30	B+5	Ō	0	0	0	2
JUL 31	B+6	2	0	9	11	13
GUG 1	B+7	1 2	0	18	30	43
GUG 2	B+8	9	0		25	86
GUG 3	B+9	0	0	13	13	81
GUG 4	B+10	b	0	12	18	99
GUG 5	B+11	b	0	10	lb	115
GUG 6	B+12	0	0	9	9	124
GUG 7	B+13	5	0	8	13	137
GUG 8	B+14	10	0	8	18	155
GUG 9	B+15	9	6	7	22	177
GUG 10	Btlb	5	0	b	11	188
GUG 11	B+17	7	0	b	13	1
GUG 12	B+18	3	0	b	9	210
AUG 13	B+19	0	0	5	5	215
GUG 14	B+20	3	0	5	8	223
GUG 15	B+21	5	0	5	10	233
GUG lb	B+22	4	0	4	8	241
<b>GUG</b> 17	B+23	4	0	4	8	249
GUG 18	8+24	3	0	4	7	256
GUG 19	B+25	3	0	4	7	263
GUG 20	B+26	3	0	<i>3</i> 3	6	269
AUG 21	B+27	1	0	J	4	273

SHIP: USS TURNER (DD-834)

CREW SIZE: 313

GROUP: NAVAL AIR

MISSION: As part of the Destroyer Division FIFTY-ONE, TURNER arrived at the Marshall Islands on June 5, 1946, to prepare for the operation. She provided patrol and plane guard support for the Naval air units.

SHOT DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins | July 1946. All days are July (e.g., | Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film **badge dose** for this unit from the various sources which it **encountered** while at Bikini lagoon. A daily total **and** cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated **dose** received while at Bikini: 0.000 REM

**Date** unit departed Bikini: June 25, 1946 (BAKER DAY). TURNER did not reenter the lagoon after Shot BAKER.

Ship contamination factor when departing Bikini: 0 (this value is for use with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS TURNER

TIME	PLACE	REMARKS
010900 030614		OBSERVED SHOT ABLE. LOCATED 82 MILES AWAY. ENTERED BIKINI LAGOON
030648	2696M	MOORED TO USS CHIKASKIA FOR FUEL IN BERTH 324
030808	24981	UNDERWAY TO TOUR TARGET AREA ANCHORED BERTH 268
031618 250835		OBSERVED SHOT BAKER AT A BEARING OF 313 DEG. AND DISTA
251452	2591M	NCE OF 49 MILES CHANGED COURSE - ENROUTE PEARL HARBOR
260001	2591M	ENROUTE PEARL HARBOR - DEPARTED VICINITY OF BIKINI LAG OON ON 25 JULY 1946 WITHOUT EVER HAVING ENTERED BIKINI
		LAGOON AFTER SHOT BAKER

USS TURNER CALCULATED FILM BADGE DOSE (IN MREM)

JUL 25	C			ı m
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SHIP: USS WALKE (DD-723)

CREW SIZE: 242

GROUP: SURFACE PATROL

MISSION: WALKE arrived at Bikini Lagoon on May 27, 1946, to prepare for CROSSROADS. The ship was primarily responsible for conducting oceanographic surveys and radiological monitoring during the operation.

SHOT DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MYIHELD)	TYPE DETONATION
		1 July 46 (0900)		
	BAKER	25 July 46 (0835)	23 KT	Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.210 REM

Date unit departed Bikini: August 8, 1946 (BAKER + 14)

Ship contamination factor when departing Bikini: 16 (this value is for use with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS WALKE

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PARTED	RE-ENTERED LAGOON	BSED BU	NDERW	HORED IN BERT	NDERWAY TO BERTH 19	HORED IN BERTH 3	NDERWAY TO BERTH 30	CORED ALONGSIDE USS	NDERWA: TO USS ENOR	NCHORED IN BERTH 307	CEED TO BERT	NCHORED IN BERTH 33	NDERWAY FOR GRID POSITI	CHORED INS D. ERIC PA	ESERVED SHOT GAKER FROM APPROXIMATELY 15	EPARTED LAGOON TO CONTINUE RADIOLOGICAL PATR	NDERWAY BUT OF LAGBO	VIND TO IN THE V	POCEED TO USS HAVE	IA 3H1 NI O1 9	ROCEED TO USS DIXI	IN 3HI NI OI SMIA	FOCEEDING TO HAVE	YING TO IN THE VICI	OF EMERGENCY APPEN	D BIKINI LAGOON T	SERV	t   	

USS WALKE CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON <b>WATER</b>	TARGET SHIPS	SHIP CONTÁMINATION	DAILY TOTAL	CUM TOTAL
JUL 1	At 0	0	0		0	0
JUL 2	A+1	0	0		Ö	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	,0		0	0
JUL 5 TH	HEU 2 4	0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 25	B+1	0	0	0	0	0
JUL 27	B+2	0	0	0	0	0
JUL 26	B+3	0	0	0	0	0
JUL 29	B+4	0	0	1	1	1
J 30	B+5	2	0	14	16	17
JUL 31	8+6	9	0	28	37	54
AUG 1	B+7	1 4	0	24	38	92
AUG 2	B+8	5	0	21	26	118
AUG 3	B+9	0	0	18	18	136
AUG 4	B+10	0	0	16	16	152
AUG 5	B+11	0	0	14	14	166
AUG 6	B+12	0	0	13	13	179
AUG 7	B+13	6	0	11	17	196
AUG 8	B+14	4 .	0	10	14	210

SHIP: USS WENATCHEE (ATF-118)

CREW SIZE: 99

GROUP: SERVICE

MISSION: WENATCHEE arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As part of the Repair and Service Unit, WENATCHEE performed such duties as salvage, towing, and emergency repair work,

SHOT DATA	A: <u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-I support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-I, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.301 REM

Date unit departed Bikini: August 18, 1946 (BAKER + 24)

Ship contamination factor when departing Bikini: 7 (this value is for use with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS VENATCHEE

TIME PLACE	REMARKS
010900 2591M	OBSERVED SHOT ABLE FROM A DISTANCE OF 132 MILES
031326 2591M	ENTERED BIKINI LAGOON
031749 2600K	ANCHORED BERTH 191-A
042400 2600K	
051159 <b>9</b> 999A	
051200 9999A	
	ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
	ULY THROUGH 24 JULY
051201 9999A	ALONGSIDE USS SARATOGA FOR 42 MINUTES
071200 9999A	ALONGSIDE USS SALT LAKE CITY FOR 35 MINUTES
101200 9999A	ALONGSIDE USS LCT-1187 FOR 1 HR 5 MIN
121200 9999A	ALONGSIDE USS NEVADA FOR 4 HRS 47 MIN
131200 9999A	ALONGSIDE USS LCT-1187 FOR 1 HR 9 MIN
221200 9999A	ALONGSIDE USS SARATOGA FOE 10 MIN
250835 2591M	OBSERVED SHOT BAKER FROM A DISTANCE OF 20 MILES
310720 2 <b>591M</b>	ENTERED BIKINI LAGOON
310925 2600K	ANCHORED BERTH 191-A UNDERWAY FOR USS <b>HESFERIA WITH</b> YF-133 <b>IN TOW</b>
320713 2600K 320750 2402H	MOORED YF-733 TO USS HESPERIA
320802 2402H	UNDERWAY
320835 2604W	ANCHORED VICINITY OF USS PRESQUE ISLE FOR SALVAGE OPER
02V000 20V4W	ATIONS
321520 2604W	UNDERWAY TO DISFOSE OF AN LCtl
321707 2600K	ANCHORED BERTH 191-A
330755 <b>26</b> 00K	UNDERVAY FOR HARBOR WORK
330 <b>945 2204D</b>	MODRED A WATER BARGE TO PORT SIDE OF USS SAIDOR
330 <b>95</b> 3 2204D	U ER WAY
331101 26040	ANCHORED OFF PORT SIDE OF USS PRESQUE ISLE
340000 2 <b>504E</b>	ANCHORED BERTH 61
340610 2504E	u ERWAY
340620 2605S	LST-817 PULLED OFF BEACH
340633 2504E	ANCHORED BERTH 61
341346 2504E	UNDERWAY
341426 2395H	ANCHORED BERTH 364
341610 2395H	UNDERWAY
341635 2595T	ANCHORED BERTH 369
352400 2595T	ANCHORED AS BEFORE
491830 2591M	DEPARTED BIKINI LAGOON ON 18 AUGUST 1946 - ENROUTE KWA
	JALEIN

USS WENATCHEE CALCULATED FILM BADGE D₀S∈ (IN MREM)

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SHIP: USS WHARTON (AP-7)

CREW SIZE: 493

GROUP: TECHNICAL

MISSION: WHARTON arrived at Bikini on May 29, 1946, to begin preparations for CROSSROADS. The ship was assigned to the Instrumentation Unit which furnished laboratory and base facilities during the operation.

SHOT I	DATA:	<b>TEST</b>	D A	ТЕ	_ ( T	I	MYIHLD)	TYPE	DETONATI	ON	
		ABLE BAKER					23 KT 23 KT		t (+520 feet Underwater		feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.245 REM

Date unit departed Bikini: August 25, 1946 (BAKER + 31)

Ship contamination factor when departing Bikini: 2 (this value is for use with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS WHARTON

TIME PLACE	REMARKS
011417 2591M 011541 2104B 011619 2104B 011655 2403B 021451 2403B 021542 2103H 042400 2103H	ENTERING CHANNEL TO BIKINI LAGOON ANCHORED IN BERTH 33 UNDERWAY TO SHIFT BERTHS ANCHORED IN BERTH 92 UNDERWAY TO SHIFT BERTHS ANCHORED IN BERTH 89 ANCHORED AS BEFORE
250835 2591M	OBSERVED SHOT BAKER FROM APPROXIMATELY 10 MILES DISTAN
251403 2591M 251414 25949 260001 25948 281520 25948 281617 2193Y 301317 2193Y 301355 2402W 331545 2394A 362400 2394A	CE ENTERED CHANNEL TO BIKINI LAGOON ANCHORED IN BERTH "0" ANCHORED IN BERTH "0" UNDERWAY TO SHIFT BERTHS ANCHORED IN BERTH "F" UNDERWAY TO SHIFT BERTHS ANCHORED IN BERTH 145 UNDERWAY TO SHIFT BERTHS ANCHORED IN BERTH 363 ANCHORED IN BERTH 363
531700 2394A 531748 2591M	ANCHORED IN BERTH 363 DEPARTED BIKINI LAGOON ENROUTE KWAJALEIN ATOLL 25 AUGU ST 1946

USS WHARTON CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	<b>LAGOON</b> WATER	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	Αtΰ	2	0		2	2
JUL 2	A+1	6	0		6	8
JUL 3	A+2	1	0		1	9
JUL 4	A+3	0	0		0	9
JUL 5 m	<b>PRU</b> 24	0	0			9
JUL 25	B+0	0	0	G	0	9
JUL 26	B+1	0	0	0	0	9
JUL 27	B+2	0	G	1	1	10
JUL 29	B+3	1	0	3	4	14
JUL 29	B+4	0	0	2	2	lb
JUL 30	B+5	7	0	b	13	29
JUL 31	B+6	lb	G	10	26	ទ្ធ
AUG 1	B+7	lb	G	8	24	79
AUG 2	B+8	10	G	7	17	96
AUG 3	B+9	G	0	b	b	102
AUG 4	B+10	0	G	5	5	107
AUG 5	B+11	0	0	5	5	112
AUG b	B+12	0	0	4	4	116
AUG 7	B+13	6	0	4	10	126
AUG 8	B+14	10	0	3	13	139
AUG 9	B+15	9	G	3	12	151
AUG 10	B+16	8	0	3	11	162
AUG 11	B+17	7	G	3	10	172
AUG 12	B+18	6	G	3	9	181
AUG 13	B+19	b	G	2	8	189
AUG 14	B+20	5	G	2	7	196
AUG 15	B+21	5	G	2	7	
AUG 16	B+22	4	G	2	b	209
AUG 17	B+23	4	G	2	b	215
AUG 18	B+24	3	G	2	5	0
AUG 19	B+25	3	0	2	5	225
AUG 20	B+26	3 7 7 3	G	2	5	230
AUG 21	B+27		G	1	4	234
AUG 22	B+28	2	0	1	3	237
AUG 23	Et29	2	G	1	3	240
AUG 24	B+30	2	G	1	3	243
AUG 25	B+31	1	G	1	2	245

SHIP: USS WIDGEON (ASR-1)

CREW SIZE: 86

GROUP: SALVAGE

MISSION: WIDGEON arrived at Bikini prior to the first detonation on July 1, 1946 to prepare for the operation. As a member of the Salvage Unit, WIDGEON's main duties included salvaging the damaged target vessels after the tests, performing emergency repairs, and fighting fires.

SHOT DATA:	TEST	DATE (TIME)	YIELD	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.637 REM

Date unit departed Bikini: September 5, 1946 (BAKER + 42)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS WIDGEON TIME PLACE REMARKS

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LONGSIDE USS CARLISLE FOR 82 HRS 45	-0 -0 -0	1120
ONCLUDING TIME ALONGSIDE USS ANDERSON	-0 -0	
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USS WIDGEON CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	TARGET SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	CUM TOTAL
JUL 1	Αto	0	0		0	0
JUL 2	A+1	1	147		148	148
JUL 3	A+2	o O	0		0	148
JUL 4	A+3	Ŏ	0		0	148
	HRU 24	0	Ö		U	148
002 0 11	11110 24	U	V			140
JUL 2 5	B t 0	0	0	0	0	148
JUL 2 6	B+1	0	ŏ	0	0	148
JUL 27	B+2	5	0	17	22	170
JUL 28	B+3	5	0	39	44	214
JUL 2 9	B+4	6	ő	33	39	253
JUL 30	B+5	2	0	29	31	284
JUL 31	B+6	1	Ğ	25	32	316
AUG 1	B+7	1	0	20	21	3 <b>37</b>
AUG 2	B+8	Ö	0	18	18	355
AUG 3	B+9	0	0	15	15	370
AUG 4	B+10	0	0	14	13 14	370 <b>384</b>
AUG 5	B+11	0	0	12	12	396
AUG 6	B+12	0	0	11	11	390 407
AUG 7	Bt13	6	0	10	16	423
GUG 8	Bt13	10	0	9	19	442
AUG 9	Bt14 Bt15		0		19	
AUG 10	B+16	9	0	8	16	<b>459</b>
AUG 11	B+17	8	•	8		475
		7	0	7	14	<b>489</b> 502
AUG 12	B+18	6	0	7	13	
AUG 1 3 AUG 14	Bt19	6	0	6	12	514 595
AUG 14 AUG 15	B+20 Bt21	5	0	6	1 1 10	<b>525</b>
	B+22	5	•	5	9	535 544
AUG16 AUG17		4	0	5 5	9	5 <del>44</del> 553
	Bt23	<b>4</b> 3	0			560
AUG 18	Bt24			4	7	
AUG 19	B+25	<b>3</b> 3	0	4	7	<b>567</b> 57 <b>4</b>
AUG 2 0	B+26		0	4	7	
AUG 21	B+27	3	0	4	7	581
AUG 2 2	Bt28	2	0	4	6	587
AUG 23	Bt29	2	0	4	6	593
AUG 2 4	B+30	2	0	3	5	<b>598</b>
AUG 25	Bt31	2	0	3	5	603
AUG 26	B+32	l	0	3	4	607
AUG 2 7	B+33	1	0	3	4	611
AUG 28	Bt34	-1	0	3	4	615
AUG 29	Bt35	l •	0	3	4	619
AUG 30	B+36	1	U	3	4	623
AUG 31	B+37	1	0	3	4	627
SEP 1	Bt38	0	0	2	2	629
SEP 2	Bt39	0	0	2	2	631
SEP 3	B+40	0	0	2	2	გ 33
SEP 4	Bt41	0	0	2	2	635
SEP 5	Bt42	0	0	2	2	637

SHIP: USS WILDCAT (AW-2)

CREW SIZE: 128

GROUP: SERVICE

MISSION: WILDCAT served as a water distilling ship during Operation CROSSROADS. Except for a brief trip to Rongelap Atoll (located some 65 miles east of Bikini) on July 18 to 19, WILDCAT remained at Bikini performing routine duties until July 24, 1946. On that date, the ship departed the lagoon enroute to Rongelap, arriving there the next morning. She returned to Bikini on 30 July, 1946.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION	
		ABLE BAKER	1 July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90	feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it **encountered** while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.172 REM

Date unit departed Bikini: August 19, 1946 (BAKER + 25)

Ship contamination factor when departing Bikini: 4 (this value is for **use** with the nomograph in Figure B-5)

### PATH REPORT FOR THE USS WILDCAT

TIME PLACE	REMAR
010900 2591M 011946 25950	OBSERVED SHOT ABLE FROM A DISTANCE OF 30.5 MILES ANCHORED IN VICINITY OF BERTH 369
020600 25950	UNDERWAY <b>TO SHIFT</b> BERTHS
020635 26958	ANCHORED IN BERTH 370
040900 26955	ANCHORED <b>AS BEFORE</b>
051200 9999A	PASSING SUMMARY 5 <b>Plus</b> 0
051201 9999A	SUMMARY 5 PLUS IS THE SUM TOTAL OF ALL FREE FIELD TARG
	ET SHIP DOSES RECEIVED BY THIS SHIP FOR THE PERIOD 5 J
	ULY THROUGH <b>24</b> JULY
061200 9999A	ALONGSIDE USS LST-661 FOR 4 HRS 9 MIN
081200 9999A	ALONGSIDE US5 LCI-549 FOR 1 HR 29 MIN
111200 9999A	ALONGSIDE PRINZ EUGEN FOR 53 HES 8 MIN
131200 9999A	CONCLUDING TIME ALONGSIDE PRINZ EUGEN
250835 2591M	ANCHORED AT RONGELAP <b>ATOLL DURING</b> BAKER <b>SHOT</b>
301540 2591M	ENTERED BIKINI LAGOON
301605 2 <b>5</b> 956	ANCHORED BERTH 370
331450 25958	UNDERWAY TO SHIFT BERTHS
331544 25949	ANCHORED IN BERTH QUEEN
380900 25945	ANCHORED A5 BEFORE
491450 2591M	TWO RADSAFE INSPECTORS CAME ON BOARD TO TEST FOR RADIO
	ACTIVITY AND LEFT AT 1507. ALL WORKING SPACES SAFE FO
ES.4878 858.44	R ALL PERSONNEL.
501232 2591M	LEFT BIKINI LAGOON ENROUTE KWAJALEIN 19 AUGUST 1946

USS WILDCAT CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	LAGOON WATER	<b>TARGET</b> SHIPS	SHIP CONTAMINATION	DAILY <b>TOTAL</b>	curl <b>TOTAL</b>
JUL 1	Ato	0	0		0	0
JUL 2	A+1	0	0		0	0
JUL 3	A+2	0	0		0	0
JUL 4	A+3	0	0		0	Ů
JUL 5 T	IRU 2 4	0	0			0
JUL 25	B+0	0	0	0	0	0
JUL 26	B+1	0	0	ij	0	0
JUL 27	B+2	0	0	0	0	0
JUL 28	B+3	0	0	0	0	0
JUL 29	B+4	0	0	!j	0	0
JUL 30	B+5	2	0	3	5	5
JUL 31	B+6	4	0	16	20	25
AUG 1	B+7	3	0	14	17	42
AUG 2	B+8	1	0	13	14	56
AUG 3	B+9	0	Ō	11	11	67
ĄUG 4	B+10	Û	0	10	10	77
AUG 5	B+11	0	0	9	9	86
AUG 6	B+12	0	0	8	8	94
PUG 7	B+13	0	0	7	7	101
AUG 8	B+14	0	0	6	6	107
AUG 9	B+15	0	0	6	6	113
AUG 10	B+16	0	Û	5	5	118
GUG 11	B+17	0	0	5	5	123
AUG 12	B+18	0	Ö	5	5	128
AUG 13	B+19	0	0	4	4	132
AUG 14	B+20	2	Ō	4	6	138
AUG 15	B+21	5	0	4	9	147
AUG 1 b	B+22	4	0	4	8	155
AUG 17	B+23	4	Û	3	7	162
AUG 18	Et24	3	0	3	6	168
AUG 19	B+25	1	0	3	4	172

SHIP: USS YMS-354

CREW SIZE: 28

GROUP: SURVEY

MISSION: Y MS-354 arrived at Bikini prior to the first detonation on July 1, 1946. As part of the Survey Unit, its mission included surveying the probable effects of the nuclear tests on fish and other wildlife and conducting an oceanographic survey to determine the character of the ocean currents in and around Bikini Atoll.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	<u>YIELD</u>	TYPE DETONATION
			1 July 46 (0900) 25 July 46 <b>(0835)</b>		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.457 REM

Date unit departed Bikini: September 14, 1946 (BAKER + 51)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS YMS-354

-i ⊊	> 9	
	: F	; r
_	10 17 13 13 13	
040615		TERED BIKINI LAGOON -
04 ± 00 00	0.66.07	DORED TO USS AJAX IN EERTH #31
9474°	(1) 40	ENCHORED AS BEFORE
00000 00000	Ç.G	ORED IN RONGELAP ATOLL AT TIME OF SHOT
210710		DUCT FISHING SUR
31410		DORED TO USS AJ
(7)	25990	UNDERWAY WITH YMS-413
1:0 6,7 6,9 4:a		ANCHORED - "C" 15 DES "B" 143 DEG AMEN ISLAND 245 DE
		G
320920	16693	UNDERWAY TO YMS-413 - ANCHORED IN BERTH 2068
	6 6 5	MODRED TO YMS-413 (ESTIMATED TIME)
t∙) ⊷∗	1366B2	NDERWAY FROM 15-41
†⊖ ⊶ 1.4	() () ()	RED TO AR
15.0 15.00 1		ENTERED AND L7
ф О	NG 0.488	9 IN TOW TO BERTH #270
اشار مسو سار	0~	ARD-29 ANCHORED IN BERTH #270A
45 65 05 45	26981	CAST OFF FROM ARD-29
(4 ↓ ↓ (~ (n (J)		D OFF E
342400		HORE
761318	1000 1000 1000 1000 1000 1000 1000 100	EPARTED B FINI LAGOON IN COMPANY WITH YMS-463
		ON 14 SEPTEMBER 1946 ENROUTE KWAJA
		m is

USS YMS-354 CALCULATED FILM BALGE DOSE (IN MREM)

DATE	TIME	WATER		SHIP CONTAMINATION		CUM TOTAL
JUL 1	A+0	ŷ	0		0	0
JUL 2	A+1	Ü	0		Ó.	ý.
JUL 3	A+I	0	0		C	0
JUL 4	A+3	ŷ.	Q.		0	Ó
JUL 5 TH	1RU 24	0	Ü			ŷ
JUL 25	E+0	0	0	0	0	0
JUL 26	B+1	0	0	0	O	0
JUL 27	8+2	Q	0	í)	0	Ú.
JUL 28	F:+3	Ů.	0	0	Ó.	0
JUL 29	B + 4	Ĉ.	Q	0	Đ	Q.
JUL 30	8 + 5	0	0	Û	Ú	Û
JUL 31	Dta	5	0	17	22	22
AUG 1	<b>E</b> + 7	12	0	30	42	ے <u>4</u>
AUG 2	8+8	1.4	0	24	4 0	104
AUG 3	Brig	9	0	22	31	135
AUG 4	B+10	0	ð	20	20	155
AUG 5	B+11	1	Q.	17	18	173
AUG 6	B+12	2	0	15	17	190
AUG 7	B+13	2	()	1 4	15	206
AUG 8	5+14	Ō	0	13	13	219
AUG 9	B+15	5	()	12	17	236
AUG 10	B = 1.6	7	0	11	18	254
AU6 11	B+17	?	Q.	10	17	271
AUG 12	0+18	ó	0	7	15	286
AUG 13	B+19	á	Û	9	15	301
AUG 14	B+20	4	0	8	12	313
AUS 15	B+21	Д	0	S	12	325
AUG 16	B+22	2	0	7	9	334
AUG 17	F+23	0	0	7	7	341
AUG 18	B+24	1	()	6	7	348
AUS 19	B+25	3	0	6	9	357
ALG 20	B+26	2	0	6	3	355
AUG 21	B+27	0	0	5	5	370
AUG 22	B+28	1	Ç.	5	Ь	376
AUG 23	B+29	2	0	5	7	383
AUG 24	B+30	ō.	0	5	5	388
AUG 25	B+31	0	0	5	5 5	393
AUG 26	B+32	0	0	4	4	397
AUG 27	B+33	0	0	4	4	401
AUG 28	E+34	0	0	4	4	405
AUG 29	8+35	0	0	4	4	409
AUG 30	B+36	0	0	4	4	413
AUG 31	B+37	0	0	4	4	417
SEP 1	B+38	0	0	3	3 3 3 3	420
SEP 2	B+39	0	Q	3 3 3	3	423
98F 3	B+40	0	0	3	3	426
SEP 4	B+41	0	0	3	3	429

SEP 5	B+42	0	0	J.	3	432
SEP 6	B+43	O	Ó	3	3	435
SEP 7	B+44	0	0	3	3	438
SEP 8	B+45	0		3	3	4 4 1
5EP 9	B+46	0	0	3	3	4 4 4
SEP 10	B+47	0	0	3	3	447
SEP 11	B+48	0	0	J	3	450
SEP 12	B+49	0	0	3	্র	453
SEP 13	B+50	0	O .	2	2	455
GEP 14	R+51	Ō		2	2	457

### SUPPORT SHIP INFORMATION SUMMARY

SHIP: USS YMS-358

CREW SIZE: 31

**GROUP: SURVEY** 

MISSION: YMS-358 arrived at Bikini prior to the first detonation on July 1, 1946. As part of the Survey Unit, its mission included surveying the probable effects of the nuclear tests on fish and other wildlife and conducting an oceanographic survey to determine the character of the ocean currents in and around Bikini Atoll.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
			1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of **each** source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.468 REM

Date unit departed Bikini: September 14, 1946 (BAKER + 51)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

# PAIH REPORT FOR THE USS YMS-358

05 do 45 do 40 do 40 64 do 51 00	ان الان الان الان منظم على منظم على منظم ع رئي الانتظام الانتظام على الانتظام على الانتظام على الانتظام		7 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
लिल्लाल Display George Deet	1 U U U V V V V U V V V V V V V V V V V		3005 01 5006 01 5006 01 5006 01 5006 01 1006 1006 1006 1006 1006 1006 100
	STIMATED FOSI DORED TO USS WDERWAY FOR F STIMATED FOSI STIMATED FCSI OORED TO USS	REGIN FISHING OPERATIONS - ESTIMATED FOSITION STIMATED POSITION STIMATED POSITION ODRED ALONGSIDE USS AJAX NDERWAY FOR FISHING OPERATIONS (ESTIMATED TIME) STIMATED TIME AND POSITION STIMATED TIME AND POSITION ODRED TO USS YO-132 BESIDE USS AJAX NDERWAY FOR FISHING OPERATIONS	REMARKS  ANCHORED OFF RONGELAP ISLAND IN RONGELAP ATOLL AT TIME OF SHOT ABLE  ENTERED BIKINI LAGOON  MODRED NEXT TO USS AJAX IN BERTH #207  MODRED AS BEFORE

USS YMS-358 CALCULATED FILM BADGE DOSE (IN MREM)

DATE	TIME	WATER	SHIPS	SHIP CONTAMINATION	DAILY TOTAL	CUM
3UL 1	A+0		0		0	0
JUL 2	A+1	Ů	0		0	0
		0	0		Ģ	0
JUL 4			e		Ó	0
JUL 5 TH			0			Q.
JUL 25	B = 0	0	0	0	0	ð
JUL 26	B+1	0	Û	Ų.	Ü	0
JUL 27	B+2	0	Û	0	0	0
JUL 28	F ÷ 3	Ç.	<u>()</u>	0	0	Ō
JUL 29	P + 4	0	Ō	0	Õ	0
JJL 30	B÷5	$\phi$	6	0	Û	0
JUL 01	B÷ú	å	G	21	27	27
AUG 1	B+7	<u> </u>	Ü	30	40	57
AUG 2	8+B	1 1	0	26	3.7	104
AUG 3	<b>B</b> +9	7	0	22	29	133
	B+10	ী	0	20	23	156
	8+11	3	ē	17	20	176
AUG 5	B=12	ō	Ō	15	15	191
AUG 7	E+13	Ĉ	0	14	1 4	205
	B+14	5	0	13	18	223
AUG 9		ā	Ó	12	18	241
AUG 10	B+16	6	Ö	11	17	258
AUG 11	B+17	7	Ö	10	17	275
AUG 12	5+18	3	ő	9	12	287
AUG 13	3+19		Ô	9	12	295
AUG 14	B+20	4	Ŏ	9	12	311
AUG 15	B+21	5	Õ	8	13	324
AUG 16	B+22	4	Č	7	11	335
AUG 17	B+23	3	Ō.	7	10	345
AUS 18	B÷24	3	Ö	, 5	9	354
AUG 19	B+25	3	ð	5	9	363
AUG 20	B+26	- 3	0	6 6	9	372
AUG 21		3	Ō	듁	8	380
AUG 22	B+28	2	0	5	7	387
AUG 23	B+29	2	Ö	5	7	394
AUG 24	B+30	0	0	5	5	399
AUG 25	B+31	0	0	5	5	4 0 4
AUG 26	B+32	0 0	0		4	408
AUG 27	B+33	0	0		4	412
AUG 28	B+34	0	0	4	4	416
AUG 29	ртэ4 В÷35	0	9	<b>4</b> 4	4	420
AUG 30	8+35 B+36			<u>Д</u> 4	4	424
AUG 31	8+35 B+37	0	0	4	4	428
		0	0	4	3	431
SEP 1 SEP 2	B+38	0	0	3 3	3	434
	B+39	0	0	ა -	3	437
SEP 3	8+40	0	Û	3	3	440
SEP 4	B + 41	0	0	3	-	

SEP 5	B+42	0	()	र	₹	443
		-	· ·	. <del></del>	<b>.</b>	440
SEP 6	E+43	0	0	3	3	445
SEP 7	B + 44	Ō.	0	3	3	449
3 <b>E</b> F <b>8</b>	B+45	Ð	0	Ĵ	3	452
5EP 9	B+45	0	0	Ī	3	455
SEP 10	3+47	Û	Q	3	3	458
SEP 11	8+48	9	÷	3	3	461
SEP 12	8+49	0	0	3	3	464
SEF 13	B+30	0	0	2	2	466
SEP 14	8+51	Ü	۵	2	÷	4 ± B

### SUPPORT SHIP INFORMATION SUMMARY

SHIP: USS YMS-413

CREW SIZE: 32

GROUP: SURVEY

MISSION: Y MS-413 arrived at Bikini prior to the first detonation on July 1, 1946. As part of the Survey Unit, its mission included surveying the probable effects of the nuclear tests on fish and other wildlife and conducting an oceanographic survey to determine the character of the ocean currents in and around Bikini Atoll.

SHOT	DATA:	<u>TEST</u>	DATE (TIME)	YIELD	TYPE DETONATION
			1 July 46 (0900) 25 July 46 (0835)		Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report contains the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.444 REM

Date unit departed Bikini: September 14, 1946 (BAKER + 51)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

## REPORT FOR THE USS YMS-413 III SII CL

W		M A B K K B K K B K K B K K B K K B K K B K K B K K B
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た (00 マ (3) た (8)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	REGER BLAIRI LHOUGH REMARKS AF ATOL AT TICE OF SHAT ARE
) ()   () 4 	- 025 - 035	WIERED BIKINI LAGOON (ESTIMATED T
-€-4 -+***	o to	DRED STARBOARD SID
124 103 163	05 05 05	ERWAY WITH YMS-354 ALDNGSID
មា ១០១	()*-	54 ANCHORED x 7H YMS-413
2090	90 01 01	ERWAY FROM ALENGSIDE YMS
등 이 이	5	LLI
10 00 10	05- 05-	DERWAY FROM ALONGSIDE U
3081	10 0	MMENCED FISHING OPERATIONS (ESTIMATED PO
3140	8	OCEEDING TO ANCHORAGE ESTIMATED POSITION
	10 05 50	CHURE
<u> </u>	10 	DERWAY TO NEW ANCHORA
0010	다 () ()	ORED OFF ENYU CHANNEL (ESTIMATED POSITION
	er Ori	DERWAY FOR FISHING OPERATIONS (ESTIMATED
## ## ##	r:)  0:-	STIMATED POS
다 [] 다	10 05 40	ERWAY TO NEW ANCHORAG
CI CO CO CO CO	0- IO	150 L C
<ul><li>€ / 4 = 4</li></ul>	(U)	BERTH
<u>ं</u>	394 5	NCHORED ALONGSID
342400	52 40 60 61	HORED AS BEFO
761311	至 (5) (6)	DEPARTED BIKINI LAGOON ON 14 SEPTEMBER 1946 ENROUTE FWAJALEIN
780928	2591M	NSPECTION PARTY FROM USS HAVEN ABOARD FOR RADIOLOGIC
		可以

USB YMS-413 CALCULATED FILM BADGE DOSE (IN MREM)

		WATER	SHIPS	SHIP CONTAMINATION	DAILY TOTAL	TOTAL
JUL 1			0		0	0
JUL 2	A+1	0	0		0	0
		0	0		0	0
JUL 4			0		Ú.	Õ
JUL 5 TH			Ģ.			ij.
JUL 25	B+()	6	i)	0	0	0
JUL 26		0	0	0	Q.	0
JUL 27	B+2	0	Ü	0	Ú	0
JUL 28		(:	0	()	0	0
JUL 29		Ō	0	0	0	Û
JUL 30		Ç	0	0	Đ.	Û
JUL 31	B⊦≟	6	0	1.6	22	22
AUG 1	B+7	11	0	30	41	63
AUG 2	B+8	٤	0	25	34	97
AUG 3	B+9	Ō	0	22	22	119
AUG 4	B+10	2	0	20	22	141
AUG 5	B+11	1	0	17	18	159
AUG 6	B+12	1	0	15	16	175
AUG 7	B+13	2	O	1 4	16	191
AUG 8	B+14	Ō	0	13	13	204
AUG 9	B+15	5	0	12	17	221
AUG 10	B+16	7	0	1 1	18	239
AUG 11	B+17	7	0	10	17	256
AUG 12	B+18	5	0	9	1 4	270
AUG 13	B+19	4	Õ	9	13	283
AUG 14	B+20	Ų	0	8	8	291
AUG 15	B+21	3	0	8	11	302
AUG 16	B+22	2	0	7	9	311
AUG 17	3+23	0	0	7	7	318
AUG 18	B+24	0	0	£	6	324
AUG 19	B+25	2	0	6	8	332
AUG 20	B+26	3	0	5	9	341
AUG 21	B+27	3	0	5	8	349
AUG 22	B+28	2	0	5	7	356
AUG 23	B+29	2	G	5	7 7	363
AUG 24	B+30	2	0	5	7	370
AUG 25	B+31	2	0	5	7	377
AUG 26	B+32	1	0	4	5	382
AUG 27	B+33	1	0	4	5	387
AUG 29	B+34	0	0	4	4	391
AUG 29	B+35	0	0	4	4	395
AU8 30	B+36	1	0	4	5	400
AUG 31	B+37	0	0	4	4	404
SEP 1	B+38	0	0	3	3 3 3 3	407
SEP 2	B+39	0	0	3 3	3	410
SEP 3	B+40	0	0		3	413
SEP 4	B+41	0	0	3	3	415

SEP 5	8+42	0	0	3	3	419
SEP 6	B+43	0	0		3	422
SEP 7	B+44	0	0	<del>-</del>	3	425
SEP 8	D+45	0	0	7	3	428
SEP 9	8+46	0	0	-1	3	431
SEP 10	B+47	0		3	3	434
SEP 11	B÷48	Ō	0		3	437
3EP 12	B+49	0		7	3	440
SEF 13	B+50	)	Ó	2	2	442
SEP 14	B+51	0		٦	2	444

### SUPPORT SHIP INFORMATION SUMMARY

SHIP: USS YMS-463

CREW SIZE: 17

GROUP: SURVEY

MISSION: Y MS-463 arrived at Bikini prior to the first detonation on July 1, 1946. As part of the Survey Unit, its mission included surveying the probable effects of the nuclear tests on fish and other wildlife and conducting an oceanographic survey to determine the character of the ocean currents in and around Bikini Atoll.

SHOT DATA:	<u>TEST</u>	<u>D A T E</u> ( T	I MATELLED)	TYPE DETONATION
		1 July 46 (0900) 25 July 46 (0835)	23 KT 23 KT	Air Burst (+520 feet) Shallow Underwater (-90 feet)

PATH REPORT: This report **contains** the geographic locations of CTJF-1 support vessels within Bikini lagoon. The time is in Day-Hour-Minutes and begins 1 July 1946. All days are July (e.g., 1 Aug = 32 July, etc.). Place is the grid square within Bikini lagoon from Hydrographic Office, Misc. Chart number 11854, portions of which are reproduced in Figures B-1, 2, 3, 4.

RADIATION REPORT: This report is a day-by-day compilation of the reconstructed film badge dose for this unit from the various sources which it encountered while at Bikini lagoon. A daily total and cumulative total are also included up to departure from Bikini. A detailed explanation of each source contribution is contained in the basic report, Section 2.

Total calculated dose received while at Bikini: 0.441 REM

Date unit departed Bikini: September 14, 1946 (BAKER + 51)

Ship contamination factor when departing Bikini: 3 (this value is for use with the nomograph in Figure B-5)

## PATH REPORT FOR THE USS YMS-463

TIME	PLACE	REMARKS
010900	2591M	ANCHORED AT RONGELAR ATOLL AT TIME OF SHOT ABLE
050542	2591M	ENTERED BIKINI LAGOON
250835	2591M	ANCHORED IN RONGELAP ATOLL DURING SHOT BAKER
330140	2591M	ENTERED BIKINI LAGOON
330210	2793M	ANCHORED IN ENYU ISLAND ANCHORAGE - POSITION ESTIMATED
330847	2793M	UNDERWAY
330920	25958	MOORED TO USS WILDCAT
330935	25 <b>95</b> 5	UNDERWAY FROM USS WILDCAT
331010	2504M	ANCHORED AT BIKINI ISLAND ANCHORAGE - POSITION ESTIMAT
		ED
340815	2504M	UNDERWAY
340938	2598C	ANCHORED IN BERTH #251A
352400	26980	ANCHORED AS BEFORE
751318	2591M	DEPARTED BIKINI LAGOON IN COMPANY WITH YMS-358 AND YMS
		-413 ON 14 SEPTEMBER 1946

USS YMS-463 CALCULATED FILM BADGE DOSE (IN MREM;

DATE	TIME	LAGOON WATER	SHIPS	SHIP CONTAMINATION		
JUL 1	A+0	0	0		0	6
JUL 2	A+1	0	0		0	0
JUL 3	A÷2	(i	Û		0	0
JUL 4	A+3	0	0		0	0
JUL 5 TH	RU 24	Ü	0			Ú.
JUL 25	B+0	Ċ	0	Û	Q.	ð
JUL 26	B+1	0	0	<b>Q</b>	Ģ.	Ō
JUL 27	B+2	0	0	0	Ú	0
JUL 28	B+3	Q.	0	į)	0	Ó
JUL 29	B + 4	0	0	0	0	0
JUL 30	B+5	ė,	Ō	0	Ů.	0
JUL 31	B+6	0	Ô	Û	0	0
AUG 1	B+7	0	0	Ó	0	0
AUG 2	E+8	3	Ģ	17	25	25
AUS 3	3+9	16	Ö	22	38	63
AUG 4	B+10	[ 4	Ö	20	34	97
AUG 5	B+11	11	ō	17	28	125
AUG 5	E+12	10	Ö	15	25	150
AUG 7	B+13	6	ő	14	20	170
AUG 8	B+14	á	ů	13	19	189
AUG 9	B+15	5	0	12	17	206
AU6 10	B+16	8	0	11	19	225
AUG 11	E+17	7	Û	10	17	242
AUG 12	B-18	3	0	Ç	12	254
AUG 13	B+19	5	ŷ	÷ †	15	269
AUG 14	B+20	5	Õ	8	13	282
AUG 15	B+21	5	Ö	8	13	295
AUG 15	B+22	1	0	7	8	303
AUG 17	8+23	1	Ó	· 7	8	311
AUG 18	B+24	3	Ō	6	9	320
AUG 19	B+25	2	Ō	6	8	328
AUG 20	B+26	3	Û	6	9	337
AUS 21	B+27	3	0	5	8	345
AUG 22	8+28	2	0	5	7	352
AUG 23	B+29	2	0	5	7	359
AUG 24	B+30	2	Ō	5 5 5 5	7	366
AUG 25	B+31	2	O	5	7	373
AUG 26	B+32	1	Ō	4	5	378
AUG 27	B+33	1	Ō	4	5	383
AUG 28	B+34	1	0	4	£3	388
AUG 29	B+35	1	0	4	בא נ	393
AUG 30	B+36	Ō	Ŏ	4	4	397
AUG 31	B+37	Q.	Ô	4	4	401
SEP 1	B+38	0	0	3	3	404
SEP 2	B+39	0	0	3	3	407
SEP 3	B+40	0	0	3 3 3	3	410
SEP 4	B+41	Ō	0	3	3	413

SEF 5	B+42	0	Q	3	3	416
SEP 5	8+43	0	0	3	3	417
3EP 7	8+44	Û	0	3	3	422
SEP 6	B+45		e	3	3	425
SEP 9	B+46	0	9	3		428
SEP 10	B+47	0	0	3	3	431
SEP 11	B+48	0	ŷ.	3	3	434
SEP 12	B+49	0	0	3	3	437
SEP 13	8+50	()	0	2	**	439
SEP 14	8+51	Q.	Ō	2	Z	441

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